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TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.7E-09	3.5E-09	mg/kg-day	1.3E-05	mg/kg-day	2.7E-04
				Arsenic	5E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
				Cadmium	3E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
				Chromium VI	6E+01	ug/L	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	7.5E-05	mg/kg-day	4.2E-02
				Lead												
				Manganese	6E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.5E-03
				Mercury	6E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.1E-05	mg/kg-day	7.7E-04
			Exp. Route Total								2E-07					6E-02
		Exposure Point Total									2E-07					6E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.7E-09	3.5E-09	mg/kg-day	1.3E-05	mg/kg-day	2.7E-04
				Arsenic	5E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
				Cadmium	3E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
				Chromium VI	6E+01	ug/L	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	7.5E-05	mg/kg-day	4.2E-02
				Lead												
				Manganese	6E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.5E-03
				Mercury	6E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.1E-05	mg/kg-day	7.7E-04
			Exp. Route Total								2E-07					6E-02
		Exposure Point Total									2E-07					6E-02
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 13/TT-27	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WH	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station NT-1	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station NT-2	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station NT-3	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WG	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.9E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.4E-09	6.9E-09	mg/kg-day	1.3E-05	mg/kg-day	5.3E-04
				Arsenic	5E+01	ug/L	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	8.2E-03
				Cadmium	3E+00	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.3E-03
				Chromium VI	6E+01	ug/L	5.4E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.5E-05	mg/kg-day	8.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	6E-01	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.2E-08	mg/kg-day	2.1E-05	mg/kg-day	1.5E-03
			Exp. Route Total								3E-07					1E-01
		Exposure Point Total									3E-07					1E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station TT-30	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station TT-31	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station CB-01	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station CB-02	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-03	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-04	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station CB-06	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-07	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station 16/TT-33	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 09	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station DA	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station AM	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station KF	Dermal													
		(Lower Reach 2)		Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 08	Dermal													
		(Lower Reach 2)		Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03
		Station 07/DP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station LP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station AS	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station 06	Dermal													
		(Reach 4)		Chromium VI	4E+00	ug/L	2.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	5E+02	ug/L	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.8E-03	mg/kg-day	7.2E-03
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 05	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	4.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-02	mg/kg-day	5.2E-05
				Tetrachloroethene	2E+00	ug/L	5.9E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.2E-07	6.9E-06	mg/kg-day	1.0E-02	mg/kg-day	6.9E-04
				Chromium VI	9E-01	ug/L	5.8E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	7.5E-05	mg/kg-day	9.0E-04
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
			Exp. Route Total								3E-07					6E-03
		Exposure Point Total									3E-07					6E-03
		Station 04	Dermal													
		(Upper Reach 6)		Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 03	Dermal													
		(Upper Reach 6)		Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 02	Dermal													
		(Upper Reach 6)		Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 01	Ingestion													
		(Lower Reach 6)		Arsenic	3E+00	ug/L	9.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Chromium VI	2E+00	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	3.0E-03	mg/kg-day	1.8E-04
				Lead												
				Manganese	7E+01	ug/L	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	4E-02	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	3.0E-04	mg/kg-day	4.7E-05
			Exp. Route Total								1E-07					4E-03
			Dermal													
				Arsenic	3E+00	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	4.9E-04
				Chromium VI	2E+00	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+01	ug/L	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	4E-02	ug/L	1.6E-10	mg/kg-day	N/A	N/A	N/A	1.9E-09	mg/kg-day	2.1E-05	mg/kg-day	9.0E-05
			Exp. Route Total								2E-08					4E-03
		Exposure Point Total									2E-07					8E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-05	2.0E-04	mg/kg-day	5.9E-04	mg/kg-day	3.4E-01
				Barium	6E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	7.0E-02	mg/kg-day	7.6E-04
				Cadmium	2E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-03	mg/kg-day	2.1E-03
				Chromium III	3E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	3E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.6E-03
				Lead												
				Manganese	2E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	4E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	1.0E-04	mg/kg-day	4.3E-02
				Nickel	1E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.7E-04
				Vanadium	3E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Zinc	5E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-06	3.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.5E-05	mg/kg-day	4.7E-03
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									2E-05					6E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	7.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.3E-07	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	9.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.5E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Antimony	1E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	7E+01	mg/kg	6.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.6E-06	7.0E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Barium	2E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Cadmium	1E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	1.0E-03	mg/kg-day	9.5E-04
				Chromium III	2E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	1.5E+00	mg/kg-day	1.4E-04
				Copper	6E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	6.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Lead												
				Manganese	2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.3E-03
				Mercury	1E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-04	mg/kg-day	1.3E-02
				Nickel	1E+01	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Thallium	8E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	8.0E-05	mg/kg-day	9.6E-03
				Vanadium	1E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	3E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	5.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-07	6.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	9.0E-05
				Arsenic	7E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	3.9E-02
				Cadmium	1E+00	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	5.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.1E-03
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									7E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	3.4E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	3.9E-06	mg/kg-day	1.0E-02	mg/kg-day	3.9E-04
				Trichloroethene	7E-01	mg/kg	8.5E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.4E-08	9.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-03
				Benzo(a)anthracene	3E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	4.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-07	2.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	5.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.9E-08	6.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	5.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-08	6.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
				Aroclor 1260	3E-02	mg/kg	3.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.1E-09	4.1E-08	mg/kg-day	2.0E-05	mg/kg-day	2.1E-03
				Antimony	3E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	4.0E-04	mg/kg-day	1.2E+00
				Arsenic	8E+01	mg/kg	9.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.3E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	5E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.0E-03
				Cadmium	1E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	6E+01	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	1.5E+00	mg/kg-day	6.2E-05
				Copper	3E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Lead												
				Manganese	1E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	7.0E-02	mg/kg-day	2.4E-03
				Mercury	5E-01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	8.1E-04
				Vanadium	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	1.0E-03	mg/kg-day	5.8E-02
				Zinc	1E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
			Exp. Route Total								8E-06					1E+00
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-09	5.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	3.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Aroclor 1260	3E-02	mg/kg	2.8E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.6E-09	3.2E-08	mg/kg-day	2.0E-05	mg/kg-day	1.6E-03
				Arsenic	8E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	1E+00	mg/kg	9.8E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.6E-03
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									1E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	4E-02	mg/kg	4.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.8E-09	5.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-06	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	3.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-07	3.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.0E-08	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.8E-07	4.5E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Aroclor 1254	5E-02	mg/kg	5.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.4E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Aroclor 1260	3E-01	mg/kg	3.8E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.6E-08	4.4E-07	mg/kg-day	2.0E-05	mg/kg-day	2.2E-02
				Antimony	6E+01	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	4.0E-04	mg/kg-day	2.2E-01
				Arsenic	4E+03	mg/kg	4.4E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-04	5.2E-03	mg/kg-day	5.9E-04	mg/kg-day	8.8E+00
				Barium	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.9E-03
				Cadmium	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Chromium III	6E+02	mg/kg	6.9E-05	mg/kg-day	N/A	N/A	N/A	8.0E-04	mg/kg-day	1.5E+00	mg/kg-day	5.3E-04
				Copper	2E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.3E-03	mg/kg-day	3.0E-02	mg/kg-day	7.8E-02
				Lead												
				Manganese	8E+02	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.5E-02
				Mercury	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-04	mg/kg-day	2.8E-01
				Nickel	3E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	2.0E-02	mg/kg-day	2.3E-03
				Thallium	4E+00	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	8.0E-05	mg/kg-day	6.6E-02
				Vanadium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.0E-03	mg/kg-day	1.2E-01
				Zinc	2E+03	mg/kg	2.7E-04	mg/kg-day	N/A	N/A	N/A	3.2E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								3E-04					1E+01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.3E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.8E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.5E-08	2.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-08	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	8.8E-05
				Aroclor 1254	5E-02	mg/kg	4.3E-09	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	5.0E-08	mg/kg-day	2.0E-05	mg/kg-day	2.5E-03
				Aroclor 1260	3E-01	mg/kg	3.0E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.9E-08	3.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.7E-02
				Arsenic	4E+03	mg/kg	7.5E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-04	8.7E-04	mg/kg-day	3.0E-04	mg/kg-day	2.9E+00
				Cadmium	9E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								1E-04					3E+00
		Exposure Point Total									5E-04					1E+01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	6E-01	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	8.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	8.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	3E+01	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	4.0E-04	mg/kg-day	1.2E-01
				Arsenic	2E+03	mg/kg	2.3E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-04	2.7E-03	mg/kg-day	5.9E-04	mg/kg-day	4.6E+00
				Barium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.9E-03
				Cadmium	1E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Chromium III	1E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	1.5E+00	mg/kg-day	1.1E-03
				Copper	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	3.0E-02	mg/kg-day	5.7E-02
				Lead												
				Manganese	5E+02	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	7.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.0E-02
				Mercury	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	1.0E-04	mg/kg-day	3.9E-01
				Nickel	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	2.0E-02	mg/kg-day	2.9E-03
				Thallium	8E-01	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.4E-02
				Vanadium	1E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Zinc	2E+03	mg/kg	2.8E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
				Chromium VI	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	3.0E-03	mg/kg-day	7.3E-04
			Exp. Route Total								2E-04					5E+00
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-08	5.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-08	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-09	7.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	3.9E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-05	4.6E-04	mg/kg-day	3.0E-04	mg/kg-day	1.5E+00
				Cadmium	1E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.4E-02
			Exp. Route Total								6E-05					2E+00
		Exposure Point Total									2E-04					7E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	5E-01	mg/kg	6.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-08	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.8E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.1E-09	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	1E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	4.0E-04	mg/kg-day	5.1E-02
				Arsenic	2E+03	mg/kg	3.0E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-04	3.5E-03	mg/kg-day	5.9E-04	mg/kg-day	6.0E+00
				Barium	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Cadmium	9E+00	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Chromium III	2E+03	mg/kg	1.9E-04	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	1.5E+00	mg/kg-day	1.5E-03
				Copper	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-02	mg/kg-day	2.2E-02
				Mercury	5E+00	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	1.0E-04	mg/kg-day	7.0E-02
				Nickel	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	2.0E-02	mg/kg-day	2.9E-03
				Thallium	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	8.0E-05	mg/kg-day	2.0E-01
				Vanadium	7E+01	mg/kg	8.5E-06	mg/kg-day	N/A	N/A	N/A	9.9E-05	mg/kg-day	1.0E-03	mg/kg-day	9.9E-02
				Zinc	2E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.4E-03	mg/kg-day	3.0E-01	mg/kg-day	7.9E-03
				Chromium VI	2E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-03	mg/kg-day	9.5E-04
			Exp. Route Total								2E-04					6E+00
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.3E-08	5.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	7.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.7E-07	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.3E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	8.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.9E-09	9.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	5.1E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-05	5.9E-04	mg/kg-day	3.0E-04	mg/kg-day	2.0E+00
				Cadmium	9E+00	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	2.5E-05	mg/kg-day	2.7E-02
			Exp. Route Total								8E-05					2E+00
		Exposure Point Total									3E-04					9E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	4E-01	mg/kg	5.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-08	6.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-07	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.6E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	2.0E-02	mg/kg-day	3.9E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	2E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	4.0E-04	mg/kg-day	5.4E-02
				Arsenic	2E+03	mg/kg	2.2E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-04	2.5E-03	mg/kg-day	5.9E-04	mg/kg-day	4.3E+00
				Barium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Cadmium	6E+00	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	1.0E-03	mg/kg-day	8.9E-03
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.8E-04
				Copper	8E+02	mg/kg	9.2E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-02	mg/kg-day	3.6E-02
				Lead												
				Manganese	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	7.0E-02	mg/kg-day	1.8E-02
				Mercury	5E+00	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-04	mg/kg-day	7.5E-02
				Nickel	3E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	2.0E-02	mg/kg-day	2.4E-03
				Thallium	6E-01	mg/kg	6.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	8.0E-05	mg/kg-day	9.8E-03
				Vanadium	7E+01	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	1.0E-03	mg/kg-day	9.4E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-01	mg/kg-day	6.0E-03
			Exp. Route Total								2E-04					5E+00
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.5E-08	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	3.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-05	4.2E-04	mg/kg-day	3.0E-04	mg/kg-day	1.4E+00
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								6E-05					1E+00
		Exposure Point Total									2E-04					6E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	6E-01	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	8.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	8.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	2E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	4.0E-04	mg/kg-day	5.4E-02
				Arsenic	5E+02	mg/kg	6.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.7E-05	7.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.2E+00
				Barium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.9E-03
				Cadmium	7E+00	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	1.0E-03	mg/kg-day	9.6E-03
				Chromium III	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	1.5E+00	mg/kg-day	9.9E-04
				Copper	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	2.0E-02
				Mercury	5E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	1.0E-04	mg/kg-day	7.2E-02
				Nickel	4E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	2.0E-02	mg/kg-day	2.6E-03
				Thallium	6E-01	mg/kg	6.9E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	8.0E-05	mg/kg-day	1.0E-02
				Vanadium	7E+01	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	9.7E-05	mg/kg-day	1.0E-03	mg/kg-day	9.7E-02
				Zinc	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	3.0E-01	mg/kg-day	5.7E-03
			Exp. Route Total								5E-05					2E+00
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-08	5.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-08	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-09	7.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	5E+02	mg/kg	1.0E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	1.2E-04	mg/kg-day	3.0E-04	mg/kg-day	4.0E-01
				Cadmium	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.4E-07	mg/kg-day	2.5E-05	mg/kg-day	2.1E-02
			Exp. Route Total								2E-05					4E-01
		Exposure Point Total									6E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	5.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.1E-09	6.0E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Benzo(a)anthracene	1E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	3.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	4.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-09	2.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	5.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-08	6.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.0E-02	mg/kg-day	1.1E-05
				Aroclor 1260	1E-02	mg/kg	1.3E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.7E-09	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	7.8E-04
				Antimony	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	4.0E-04	mg/kg-day	3.3E-02
				Arsenic	3E+02	mg/kg	3.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-05	3.7E-04	mg/kg-day	5.9E-04	mg/kg-day	6.3E-01
				Barium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.9E-03
				Cadmium	6E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	1.0E-03	mg/kg-day	9.1E-03
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.8E-04
				Copper	6E+02	mg/kg	7.7E-05	mg/kg-day	N/A	N/A	N/A	8.9E-04	mg/kg-day	3.0E-02	mg/kg-day	3.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	2.1E-02
				Mercury	3E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	1.0E-04	mg/kg-day	4.2E-02
				Nickel	3E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	2.0E-02	mg/kg-day	2.5E-03
				Thallium	4E-01	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	8.0E-05	mg/kg-day	7.8E-03
				Vanadium	7E+01	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	1.0E-03	mg/kg-day	9.3E-02
				Zinc	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.2E-03
			Exp. Route Total								2E-05					9E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	4.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.3E-06
				Aroclor 1260	1E-02	mg/kg	1.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.1E-09	1.2E-08	mg/kg-day	2.0E-05	mg/kg-day	6.1E-04
				Arsenic	3E+02	mg/kg	5.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-06	6.3E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	6E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								8E-06					2E-01
		Exposure Point Total									3E-05					1E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	7.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.4E-09	8.7E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	4.0E-04	mg/kg-day	2.0E-01
				Arsenic	5E+01	mg/kg	6.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.1E-06	7.8E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	1E+03	mg/kg	1.8E-04	mg/kg-day	N/A	N/A	N/A	2.1E-03	mg/kg-day	7.0E-02	mg/kg-day	3.0E-02
				Cadmium	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Chromium III	2E+04	mg/kg	1.9E-03	mg/kg-day	N/A	N/A	N/A	2.2E-02	mg/kg-day	1.5E+00	mg/kg-day	1.5E-02
				Copper	4E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.0E-02
				Lead												
				Manganese	4E+02	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	6.1E-04	mg/kg-day	7.0E-02	mg/kg-day	8.6E-03
				Mercury	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	3E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.8E-03
				Thallium	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	8.0E-05	mg/kg-day	2.7E-02
				Vanadium	8E+01	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.4E-03
				Chromium VI	2E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-03	mg/kg-day	9.6E-03
			Exp. Route Total								5E-06					6E-01
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-08	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.0E-09	6.3E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	5E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								2E-06					7E-02
		Exposure Point Total									7E-06					7E-01

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	1.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.3E-07	1.9E-06	mg/kg-day	2.0E-05	mg/kg-day	9.7E-02
				Aroclor 1260	1E+00	mg/kg	1.8E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.6E-07	2.1E-06	mg/kg-day	2.0E-05	mg/kg-day	1.0E-01
				Antimony	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	4.0E-04	mg/kg-day	6.9E-02
				Arsenic	3E+02	mg/kg	3.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-05	4.0E-04	mg/kg-day	5.9E-04	mg/kg-day	6.8E-01
				Barium	2E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	7.0E-02	mg/kg-day	3.7E-03
				Cadmium	1E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-03	mg/kg-day	2.1E-02
				Chromium III	1E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	1.5E+00	mg/kg-day	1.1E-03
				Copper	5E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.4E-02
				Lead												
				Manganese	4E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	7.0E-02	mg/kg-day	7.4E-03
				Mercury	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	8E+01	mg/kg	9.2E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	2.0E-02	mg/kg-day	5.4E-03
				Thallium	4E+00	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	8.0E-05	mg/kg-day	7.2E-02
				Vanadium	6E+01	mg/kg	7.8E-06	mg/kg-day	N/A	N/A	N/A	9.2E-05	mg/kg-day	1.0E-03	mg/kg-day	9.2E-02
				Zinc	2E+03	mg/kg	2.9E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
				Chromium VI	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	3.0E-03	mg/kg-day	7.2E-04
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Aroclor 1254	1E+00	mg/kg	1.3E-07	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	1.5E-06	mg/kg-day	2.0E-05	mg/kg-day	7.6E-02
				Aroclor 1260	1E+00	mg/kg	1.4E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.8E-07	1.6E-06	mg/kg-day	2.0E-05	mg/kg-day	8.2E-02
				Arsenic	3E+02	mg/kg	5.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.7E-06	6.8E-05	mg/kg-day	3.0E-04	mg/kg-day	2.3E-01
				Cadmium	1E+01	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.5E-05	mg/kg-day	4.6E-02
			Exp. Route Total								9E-06					4E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	8.0E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-05	4.3E-04	mg/kg-day	5.9E-04	mg/kg-day	7.3E-01
				Barium	1E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.8E-03
				Cadmium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	1.0E-03	mg/kg-day	2.0E-02
				Chromium III	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	1.5E+00	mg/kg-day	9.2E-04
				Copper	4E+02	mg/kg	6.7E-05	mg/kg-day	N/A	N/A	N/A	7.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.6E-02
				Lead												
				Manganese	1E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.3E-03	mg/kg-day	7.0E-02	mg/kg-day	3.3E-02
				Mercury	1E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	4E+01	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	6.9E-05	mg/kg-day	2.0E-02	mg/kg-day	3.4E-03
				Thallium	1E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	8.0E-05	mg/kg-day	2.6E-02
				Vanadium	4E+01	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	8.5E-05	mg/kg-day	1.0E-03	mg/kg-day	8.5E-02
				Zinc	2E+03	mg/kg	3.3E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	9E-01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	3.0E-03	mg/kg-day	6.0E-04
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	6.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-06	7.2E-05	mg/kg-day	3.0E-04	mg/kg-day	2.4E-01
				Cadmium	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.5E-05	mg/kg-day	4.6E-02
			Exp. Route Total								9E-06					3E-01
		Exposure Point Total									4E-05					1E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	4.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-05	5.1E-04	mg/kg-day	5.9E-04	mg/kg-day	8.7E-01
				Barium	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	7E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Chromium III	5E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.5E-03	mg/kg-day	1.5E+00	mg/kg-day	1.7E-03
				Copper	4E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	6.0E-02
				Lead												
				Manganese	2E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	9.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	1.0E-04	mg/kg-day	4.2E-01
				Nickel	8E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
				Thallium	2E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	8.0E-05	mg/kg-day	8.9E-03
				Vanadium	2E+01	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	1.0E-03	mg/kg-day	1.0E-02
				Zinc	1E+03	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
				Chromium VI	7E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	3.0E-03	mg/kg-day	1.1E-03
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	1E+03	mg/kg	7.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								1E-05					3E-01
		Exposure Point Total									4E-05					2E+00
		Station TT-31	Ingestion													
				Arsenic	3E+01	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-06	4.3E-05	mg/kg-day	5.9E-04	mg/kg-day	7.3E-02
				Barium	2E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Cadmium	6E+00	mg/kg	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	1.0E-03	mg/kg-day	7.8E-03
				Chromium III	3E+02	mg/kg	3.6E-05	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	1.5E+00	mg/kg-day	2.8E-04
				Copper	2E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-02	mg/kg-day	8.6E-03
				Lead												
				Manganese	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	7.0E-02	mg/kg-day	2.5E-02
				Mercury	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	4E+01	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	2.0E-02	mg/kg-day	2.5E-03
				Vanadium	6E+01	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	8.0E-05	mg/kg-day	1.0E-03	mg/kg-day	8.0E-02
				Zinc	7E+02	mg/kg	8.3E-05	mg/kg-day	N/A	N/A	N/A	9.7E-04	mg/kg-day	3.0E-01	mg/kg-day	3.2E-03
			Exp. Route Total								3E-06					2E-01
			Dermal													
				Arsenic	3E+01	mg/kg	6.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-07	7.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								9E-07					4E-02
		Exposure Point Total									4E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	4.0E-04	mg/kg-day	9.7E-03
				Arsenic	6E+01	mg/kg	9.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.3E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	6E+01	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	7.0E-02	mg/kg-day	1.6E-03
				Cadmium	9E+00	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-03	mg/kg-day	1.8E-02
				Chromium III	3E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	6.3E-04	mg/kg-day	1.5E+00	mg/kg-day	4.2E-04
				Copper	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	3.0E-02	mg/kg-day	4.7E-02
				Lead												
				Manganese	7E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	3E+00	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	1.0E-04	mg/kg-day	5.6E-02
				Nickel	2E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	6.0E-02
				Vanadium	8E+01	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.0E-03	mg/kg-day	1.5E-01
				Zinc	6E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-01	mg/kg-day	4.0E-03
			Exp. Route Total								7E-06					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	9E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								2E-06					1E-01
		Exposure Point Total									1E-05					7E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	4E+01	mg/kg	6.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.2E-06	7.9E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Cadmium	4E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	1E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.2E-03
				Lead												
				Manganese	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E-01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	1.0E-04	mg/kg-day	6.2E-03
				Nickel	1E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.5E-04
				Vanadium	3E+01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	1.0E-03	mg/kg-day	6.1E-02
				Zinc	3E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	6.0E-04	mg/kg-day	3.0E-01	mg/kg-day	2.0E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	4E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	4E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									7E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	6E+02	mg/kg	9.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-05	1.1E-03	mg/kg-day	5.9E-04	mg/kg-day	1.9E+00
				Barium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Cadmium	1E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Chromium III	8E+02	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	1.5E+00	mg/kg-day	9.7E-04
				Copper	4E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.4E-02
				Lead												
				Manganese	5E+02	mg/kg	7.6E-05	mg/kg-day	N/A	N/A	N/A	8.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.3E-02
				Mercury	2E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-04	mg/kg-day	4.7E-02
				Nickel	4E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	2.0E-02	mg/kg-day	3.5E-03
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	6E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.0E-03	mg/kg-day	1.2E-01
				Zinc	2E+03	mg/kg	3.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
			Exp. Route Total								7E-05					2E+00
			Dermal													
				Arsenic	6E+02	mg/kg	1.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-05	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.3E-01
				Cadmium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.6E-02
			Exp. Route Total								2E-05					7E-01
		Exposure Point Total									1E-04					3E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.0E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-05	3.5E-04	mg/kg-day	5.9E-04	mg/kg-day	5.8E-01
				Barium	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Cadmium	6E+00	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Chromium III	3E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.4E-04
				Copper	2E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	1E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.6E-03	mg/kg-day	7.0E-02	mg/kg-day	3.7E-02
				Mercury	1E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	2.0E-02	mg/kg-day	7.3E-03
				Thallium	5E+00	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	8.0E-05	mg/kg-day	1.3E-01
				Vanadium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.0E-03	mg/kg-day	1.3E-01
				Zinc	3E+03	mg/kg	5.0E-04	mg/kg-day	N/A	N/A	N/A	5.8E-03	mg/kg-day	3.0E-01	mg/kg-day	1.9E-02
			Exp. Route Total								2E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-06	5.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.5E-05	mg/kg-day	2.4E-02
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									3E-05					1E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Arsenic	1E+02	mg/kg	2.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-05	2.7E-04	mg/kg-day	5.9E-04	mg/kg-day	4.5E-01
				Barium	5E+01	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	9.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Chromium III	5E+02	mg/kg	8.1E-05	mg/kg-day	N/A	N/A	N/A	9.4E-04	mg/kg-day	1.5E+00	mg/kg-day	6.3E-04
				Copper	2E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	9E+01	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.5E-03
				Mercury	3E-01	mg/kg	5.5E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-04	mg/kg-day	6.4E-03
				Nickel	3E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	2.0E-02	mg/kg-day	2.6E-03
				Thallium	4E+00	mg/kg	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	8.0E-05	mg/kg-day	9.8E-02
				Vanadium	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Zinc	2E+03	mg/kg	3.4E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	6E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	3.0E-03	mg/kg-day	4.1E-04
			Exp. Route Total								2E-05					8E-01
			Dermal													
				Arsenic	1E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	4.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.5E-05	mg/kg-day	7.3E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	8.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.6E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.8E-04
				Cadmium	5E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	7E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.3E-04
				Copper	4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	3.0E-02	mg/kg-day	6.9E-03
				Lead												
				Manganese	6E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	3.1E-04	mg/kg-day	7.0E-02	mg/kg-day	4.4E-03
				Mercury	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	1.0E-04	mg/kg-day	6.1E-03
				Nickel	2E+01	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.2E-04
				Vanadium	9E+01	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-03	mg/kg-day	4.3E-02
				Zinc	6E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-01	mg/kg-day	9.8E-04
			Exp. Route Total								7E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									9E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.8E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.8E-10	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	7.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-09	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Antimony	6E+00	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+02	mg/kg	2.9E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-05	3.4E-04	mg/kg-day	5.9E-04	mg/kg-day	5.7E-01
				Barium	6E+01	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	8.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Cadmium	6E+00	mg/kg	6.8E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.0E-03	mg/kg-day	8.0E-03
				Chromium III	2E+03	mg/kg	2.7E-04	mg/kg-day	N/A	N/A	N/A	3.1E-03	mg/kg-day	1.5E+00	mg/kg-day	2.1E-03
				Copper	4E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	5.7E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	8E+02	mg/kg	9.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.6E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	1.0E-04	mg/kg-day	4.9E-02
				Nickel	2E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Vanadium	3E+01	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
				Zinc	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	3.0E-01	mg/kg-day	4.4E-03
				Chromium VI	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								2E-05					7E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-08	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	8.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.9E-09	6.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.7E-06
				Arsenic	2E+02	mg/kg	4.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.3E-06	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									3E-05					9E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	5.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-08	6.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	6.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-07	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Antimony	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.6E-03
				Arsenic	3E+01	mg/kg	4.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.3E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.4E-02
				Barium	3E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	7.0E-02	mg/kg-day	6.8E-04
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium III	6E+01	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	1.5E+00	mg/kg-day	5.6E-05
				Copper	6E+01	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.0E-03
				Lead												
				Manganese	3E+03	mg/kg	3.2E-04	mg/kg-day	N/A	N/A	N/A	3.8E-03	mg/kg-day	7.0E-02	mg/kg-day	5.4E-02
				Mercury	4E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Nickel	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.0E-02	mg/kg-day	6.9E-04
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Zinc	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-08	4.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-07	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.8E-09	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.2E-08	8.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	9.9E-05
				Arsenic	3E+01	mg/kg	7.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								2E-06					3E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	5.7E-05	mg/kg-day	5.9E-04	mg/kg-day	9.7E-02
				Barium	6E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	7.0E-02	mg/kg-day	4.0E-04
				Cadmium	4E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	3.0E-02	mg/kg-day	3.1E-03
				Lead												
				Manganese	1E+03	mg/kg	4.6E-05	mg/kg-day	N/A	N/A	N/A	5.4E-04	mg/kg-day	7.0E-02	mg/kg-day	7.7E-03
				Mercury	2E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	1.0E-04	mg/kg-day	9.0E-03
				Nickel	2E+01	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	2.0E-02	mg/kg-day	4.3E-04
				Thallium	4E-01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	8.0E-05	mg/kg-day	2.6E-03
				Vanadium	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	9E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								4E-06					1E-01
			Dermal													
				Arsenic	1E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									5E-06					2E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-06	7.4E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Barium	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Cadmium	1E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.5E+00	mg/kg-day	8.3E-05
				Copper	1E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-02	mg/kg-day	5.3E-03
				Lead												
				Manganese	4E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	7.0E-02	mg/kg-day	7.4E-03
				Mercury	9E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-04	mg/kg-day	1.3E-02
				Nickel	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.4E-04
				Vanadium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Zinc	3E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	5E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.1E-02
				Cadmium	1E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	8.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.3E-03
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.4E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.4E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-08	2.8E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	8.7E-07	mg/kg-day	2.0E-02	mg/kg-day	4.3E-05
				Antimony	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.7E-03
				Arsenic	3E+01	mg/kg	3.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-06	4.1E-05	mg/kg-day	5.9E-04	mg/kg-day	7.0E-02
				Barium	2E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	7.0E-02	mg/kg-day	4.3E-04
				Chromium III	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.3E-03
				Lead												
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Nickel	2E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.4E-03
				Thallium	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	8.0E-05	mg/kg-day	3.0E-02
				Vanadium	2E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Zinc	5E+02	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-04	mg/kg-day	3.0E-01	mg/kg-day	2.6E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-07	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-08	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	2.0E-02	mg/kg-day	3.2E-05
				Arsenic	3E+01	mg/kg	5.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-07	6.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
			Exp. Route Total								2E-06					2E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	2.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	3.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
				Benzo(a)anthracene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-07	8.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.9E-06	7.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	1.2E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-07	1.4E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	1.1E-06	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.2E-08	1.3E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	4.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-07	5.5E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	8.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Aroclor 1260	7E-02	mg/kg	8.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.6E-08	9.5E-08	mg/kg-day	2.0E-05	mg/kg-day	4.7E-03
				Antimony	2E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	4.0E-04	mg/kg-day	8.3E-03
				Arsenic	8E+01	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.1E-02
				Lead												
				Manganese	4E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	7.0E-02	mg/kg-day	8.5E-03
				Mercury	3E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	1.0E-04	mg/kg-day	4.0E-02
				Nickel	3E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	2.0E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	5E+01	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	1.0E-03	mg/kg-day	7.4E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.4E-03
			Exp. Route Total								2E-05					4E-01
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-07	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	4.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-06	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	8.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-07	9.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	8.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-08	9.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	9.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.0E-07	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-07	4.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.5E-04
				Aroclor 1260	7E-02	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-08	7.4E-08	mg/kg-day	2.0E-05	mg/kg-day	3.7E-03
				Arsenic	8E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	5E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								8E-06					8E-02
		Exposure Point Total									2E-05					5E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	4.0E-04	mg/kg-day	6.1E-03
				Arsenic	2E+02	mg/kg	1.8E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-05	2.1E-04	mg/kg-day	5.9E-04	mg/kg-day	3.6E-01
				Barium	4E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	7.0E-02	mg/kg-day	7.6E-04
				Cadmium	3E+00	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	1.0E-03	mg/kg-day	3.8E-03
				Chromium III	8E+01	mg/kg	9.4E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.5E+00	mg/kg-day	7.3E-05
				Copper	4E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-02	mg/kg-day	1.7E-02
				Lead												
				Manganese	2E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	7.0E-02	mg/kg-day	4.2E-03
				Mercury	7E-01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Nickel	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.0E-02	mg/kg-day	1.0E-03
				Thallium	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	8.0E-05	mg/kg-day	3.4E-02
				Vanadium	2E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-03	mg/kg-day	3.0E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-01	mg/kg-day	6.2E-03
			Exp. Route Total								1E-05					5E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-06	3.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Cadmium	3E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.4E-03
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									2E-05					6E-01
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.0E-02
				Arsenic	1E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	1.7E-04	mg/kg-day	5.9E-04	mg/kg-day	2.9E-01
				Barium	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Cadmium	1E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.7E-04
				Copper	6E+02	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	8.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.7E-02
				Lead												
				Manganese	4E+02	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	5.5E-04	mg/kg-day	7.0E-02	mg/kg-day	7.8E-03
				Mercury	3E+00	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-04	mg/kg-day	4.4E-02
				Nickel	4E+01	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	2.0E-02	mg/kg-day	2.8E-03
				Thallium	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	7E+01	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.0E-03	mg/kg-day	1.0E-01
				Zinc	2E+03	mg/kg	2.8E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								1E-05					5E-01
			Dermal													
				Arsenic	1E+02	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.7E-02
				Cadmium	1E+01	mg/kg	9.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.5E-05	mg/kg-day	4.2E-02
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									2E-05					7E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	2E+00	mg/kg	2.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	3.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-06	3.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	3.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-07	4.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-08	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.6E-04
				Antimony	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	4.0E-04	mg/kg-day	6.4E-03
				Arsenic	2E+01	mg/kg	3.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-06	3.5E-05	mg/kg-day	5.9E-04	mg/kg-day	6.0E-02
				Barium	4E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	6.2E-05	mg/kg-day	7.0E-02	mg/kg-day	8.8E-04
				Cadmium	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	1E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	1.5E+00	mg/kg-day	1.4E-04
				Copper	8E+01	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	1E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.6E-04
				Thallium	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	8.0E-05	mg/kg-day	1.7E-02
				Vanadium	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-03	mg/kg-day	2.8E-02
				Zinc	6E+02	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	8.1E-04	mg/kg-day	3.0E-01	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Benzo(a)anthracene	2E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	2.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	2.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-06	2.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-07	3.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.2E-08	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-08	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Arsenic	2E+01	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	5.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	2E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.1E-03
			Exp. Route Total								3E-06					3E-02
		Exposure Point Total									8E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	7.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.7E-09	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.8E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.1E-05
				Aroclor 1260	1E-01	mg/kg	1.3E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.7E-08	1.6E-07	mg/kg-day	2.0E-05	mg/kg-day	7.8E-03
				Antimony	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	4.0E-04	mg/kg-day	6.1E-03
				Arsenic	9E+01	mg/kg	1.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.1E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	1.0E-03	mg/kg-day	7.4E-03
				Chromium III	2E+02	mg/kg	2.4E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	2E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-02	mg/kg-day	8.1E-03
				Lead												
				Manganese	5E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.0E-02
				Mercury	7E-01	mg/kg	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Nickel	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Vanadium	5E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	1.0E-03	mg/kg-day	7.0E-02
				Zinc	1E+03	mg/kg	1.7E-04	mg/kg-day	N/A	N/A	N/A	2.0E-03	mg/kg-day	3.0E-01	mg/kg-day	6.7E-03
			Exp. Route Total								9E-06					3E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.7E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-09	6.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	6.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	1E-01	mg/kg	1.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.1E-08	1.2E-07	mg/kg-day	2.0E-05	mg/kg-day	6.1E-03
				Arsenic	9E+01	mg/kg	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-06	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	6.9E-02
				Cadmium	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.7E-02
			Exp. Route Total								4E-06					9E-02
		Exposure Point Total									1E-05					4E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.9E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Antimony	9E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.1E-03
				Arsenic	6E+00	mg/kg	7.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.8E-07	8.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.5E-02
				Barium	1E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	2E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	7.9E-04
				Lead												
				Manganese	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Nickel	7E+00	mg/kg	8.8E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.1E-04
				Thallium	5E-01	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	8.0E-05	mg/kg-day	9.2E-03
				Vanadium	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.0E-03	mg/kg-day	1.7E-02
				Zinc	2E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.3E-04
			Exp. Route Total								8E-07					5E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-09	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.4E-05
				Arsenic	6E+00	mg/kg	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.3E-04
			Exp. Route Total								4E-07					5E-03
		Exposure Point Total									1E-06					5E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-05	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.4E-01
				Cadmium	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium VI	2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-03	mg/kg-day	5.4E-02
				Copper	2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-02	mg/kg-day	5.4E-03
				Manganese	8E+02	mg/kg	6.8E-05	mg/kg-day	N/A	N/A	N/A	7.9E-04	mg/kg-day	7.0E-02	mg/kg-day	1.1E-02
				Mercury	2E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-04	mg/kg-day	1.9E-02
				Vanadium	3E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.0E-03	mg/kg-day	2.4E-02
				Zinc	5E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								2E-05					8E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-06	3.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+00	mg/kg	9.7E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									3E-05					9E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	4E-01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	2E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	3.0E-03	mg/kg-day	1.2E-02
				Copper	3E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Manganese	2E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	7.0E-02	mg/kg-day	5.1E-03
				Mercury	1E-01	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-04	mg/kg-day	2.2E-03
				Thallium	1E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.8E-02
				Vanadium	2E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	1E+01	mg/kg	2.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	4E-01	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									3E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	9.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	1.1E-04	mg/kg-day	3.0E-04	mg/kg-day	3.8E-01
				Cadmium	7E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Chromium VI	1E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-03	mg/kg-day	8.7E-02
				Copper	5E+01	mg/kg	8.2E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Manganese	2E+02	mg/kg	3.7E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	7.0E-02	mg/kg-day	6.1E-03
				Mercury	3E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	3E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	2E+02	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								1E-05					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	7E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.9E-03
			Exp. Route Total								2E-06					7E-02
		Exposure Point Total									2E-05					6E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	2.4E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-05	2.8E-04	mg/kg-day	3.0E-04	mg/kg-day	9.3E-01
				Cadmium	5E+00	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium VI	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-03	mg/kg-day	1.9E-01
				Copper	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.2E-02
				Manganese	3E+03	mg/kg	3.5E-04	mg/kg-day	N/A	N/A	N/A	4.1E-03	mg/kg-day	7.0E-02	mg/kg-day	5.8E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-04	mg/kg-day	4.8E-02
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	5.9E-02
				Vanadium	4E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	1.0E-03	mg/kg-day	5.4E-02
				Zinc	6E+02	mg/kg	7.2E-05	mg/kg-day	N/A	N/A	N/A	8.4E-04	mg/kg-day	3.0E-01	mg/kg-day	2.8E-03
			Exp. Route Total								4E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	4.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-06	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	5E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	2.5E-05	mg/kg-day	1.5E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	5.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-06	6.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.2E-01
				Cadmium	1E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium VI	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-03	mg/kg-day	5.7E-02
				Copper	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Manganese	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	7.0E-02	mg/kg-day	1.7E-02
				Mercury	7E-01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	1.0E-04	mg/kg-day	9.8E-03
				Vanadium	3E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	1.0E-03	mg/kg-day	4.1E-02
				Zinc	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
			Exp. Route Total								8E-06					4E-01
			Dermal													
				Arsenic	5E+01	mg/kg	9.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-05					4E-01
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	5.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-06	6.3E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	2E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.7E-02
				Copper	1E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-02	mg/kg-day	4.8E-03
				Manganese	3E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	7.0E-02	mg/kg-day	6.7E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Thallium	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	8.0E-05	mg/kg-day	3.3E-02
				Vanadium	3E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	2E+04	mg/kg	2.3E-03	mg/kg-day	N/A	N/A	N/A	2.7E-02	mg/kg-day	3.0E-01	mg/kg-day	9.0E-02
			Exp. Route Total								8E-06					5E-01
			Dermal													
				Arsenic	4E+01	mg/kg	9.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.6E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	6.0E-04
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-05					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	Station NR	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 14	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 22/TT-22	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 13/TT-27	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WH	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station NT-1	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station NT-2	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station NT-3	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WG	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station WW	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station JY	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WS/WSS	Dermal													
		(Reach 1)		Heptachlor epoxide	2E-03	ug/L	1.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	9.5E-10	3.7E-09	mg/kg-day	1.3E-05	mg/kg-day	2.8E-04
				Arsenic	5E+01	ug/L	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-08	9.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	4E-01	ug/L	2.5E-10	mg/kg-day	N/A	N/A	N/A	8.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.4E-04
				Chromium VI	6E+01	ug/L	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	7.5E-05	mg/kg-day	3.1E-02
				Lead												
				Manganese	6E+02	ug/L	3.3E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.1E-03
				Mercury	6E-01	ug/L	3.5E-10	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.1E-05	mg/kg-day	5.8E-04
			Exp. Route Total								4E-08					4E-02
		Exposure Point Total									4E-08					4E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station TT-30	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station TT-31	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station CB-01	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station CB-02	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-03	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-04	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station CB-06	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-07	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station 16/TT-33	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 09	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station DA	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station AM	Dermal													
		(Upper Reach 2)		Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station KF	Dermal													
		(Lower Reach 2)		Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 08	Dermal													
		(Lower Reach 2)		Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03
		Station 07/DP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station LP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station AS	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station 06	Dermal													
		(Reach 4)		Chromium VI	4E+00	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	7.5E-05	mg/kg-day	7.6E-04
				Lead												
				Manganese	5E+02	ug/L	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 05	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	1.2E-05
				Tetrachloroethene	2E+00	ug/L	4.6E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Chromium VI	9E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	7.5E-05	mg/kg-day	1.5E-04
				Manganese	3E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.6E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
		Station 04	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 03	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 02	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 01	Ingestion													
		(Lower Reach 6)		Arsenic	3E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	7.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.4E-04
				Chromium VI	2E+00	ug/L	9.8E-10	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	3.0E-03	mg/kg-day	1.1E-05
				Lead												
				Manganese	7E+01	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Mercury	4E-02	ug/L	2.6E-11	mg/kg-day	N/A	N/A	N/A	9.1E-10	mg/kg-day	3.0E-04	mg/kg-day	3.0E-06
			Exp. Route Total								3E-09					3E-04
			Dermal													
				Arsenic	3E+00	ug/L	2.7E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-10	9.3E-09	mg/kg-day	3.0E-04	mg/kg-day	3.1E-05
				Chromium VI	2E+00	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	7.5E-05	mg/kg-day	1.2E-04
				Lead												
				Manganese	7E+01	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.8E-03	mg/kg-day	7.6E-05
				Mercury	4E-02	ug/L	3.4E-12	mg/kg-day	N/A	N/A	N/A	1.2E-10	mg/kg-day	2.1E-05	mg/kg-day	5.7E-06
			Exp. Route Total								4E-10					2E-04
		Exposure Point Total									3E-09					5E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.1E-05	mg/kg-day	5.9E-04	mg/kg-day	8.6E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-03	mg/kg-day	5.2E-04
				Chromium III	3E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.5E+00	mg/kg-day	4.0E-05
				Copper	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	7.0E-02	mg/kg-day	8.4E-04
				Mercury	4E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-04	mg/kg-day	1.1E-02
				Nickel	1E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	5E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	3.8E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.3E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.7E-02
				Cadmium	2E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	6.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Antimony	9E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.4E-04
				Arsenic	6E+01	mg/kg	4.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-07	1.5E-05	mg/kg-day	5.9E-04	mg/kg-day	2.5E-02
				Barium	2E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	7.0E-02	mg/kg-day	5.4E-05
				Cadmium	6E-01	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	1.0E-03	mg/kg-day	1.5E-04
				Chromium III	1E+02	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.5E-04
				Lead												
				Manganese	1E+02	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	7.0E-02	mg/kg-day	4.5E-04
				Mercury	6E-01	mg/kg	4.0E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	7E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.0E-02	mg/kg-day	8.7E-05
				Thallium	5E-01	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Zinc	2E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.7E-04
			Exp. Route Total								4E-07					3E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	9.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.0E-09	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
				Arsenic	6E+01	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cadmium	6E-01	mg/kg	4.9E-10	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.8E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									7E-07					5E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	1.9E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.0E-08	6.6E-07	mg/kg-day	1.0E-02	mg/kg-day	6.6E-05
				Trichloroethene	7E-01	mg/kg	4.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.9E-09	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
				Benzo(a)anthracene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-09	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	3.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	5.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	9.5E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Aroclor 1260	3E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.0E-10	6.9E-09	mg/kg-day	2.0E-05	mg/kg-day	3.4E-04
				Antimony	7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	4.0E-04	mg/kg-day	4.1E-02
				Arsenic	8E+01	mg/kg	5.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.0E-07	1.8E-05	mg/kg-day	5.9E-04	mg/kg-day	3.1E-02
				Barium	5E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	1E+00	mg/kg	9.7E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	1.0E-03	mg/kg-day	3.4E-04
				Chromium III	6E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.0E-05
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Lead												
				Manganese	1E+02	mg/kg	7.9E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	7.0E-02	mg/kg-day	4.0E-04
				Mercury	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Nickel	1E+01	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
				Vanadium	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	1.0E-03	mg/kg-day	9.6E-03
				Zinc	1E+02	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.6E-05
			Exp. Route Total								4E-07					9E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.0E-10	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	4.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.0E-02	mg/kg-day	6.9E-06
				Aroclor 1260	3E-02	mg/kg	3.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.1E-10	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.4E-04
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-07	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	1E+00	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									7E-07					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.5E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.9E-11	5.2E-09	mg/kg-day	3.0E-04	mg/kg-day	1.7E-05
				Benzo(a)anthracene	1E+00	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	9.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.7E-08	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-08	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-09	5.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-08	7.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Aroclor 1254	2E-02	mg/kg	1.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.1E-10	3.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.9E-04
				Aroclor 1260	2E-01	mg/kg	1.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.1E-09	3.9E-08	mg/kg-day	2.0E-05	mg/kg-day	1.9E-03
				Antimony	1E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.8E-03
				Arsenic	4E+03	mg/kg	2.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.9E-05	8.6E-04	mg/kg-day	5.9E-04	mg/kg-day	1.5E+00
				Barium	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	7.0E-02	mg/kg-day	8.2E-04
				Cadmium	9E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Chromium III	6E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.5E+00	mg/kg-day	8.9E-05
				Copper	2E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	3.0E-02	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.6E-03
				Mercury	5E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-04	mg/kg-day	1.2E-02
				Nickel	3E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.0E-02	mg/kg-day	3.8E-04
				Thallium	1E+00	mg/kg	7.5E-09	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	8.0E-05	mg/kg-day	3.3E-03
				Vanadium	9E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-03	mg/kg-day	2.1E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-01	mg/kg-day	1.8E-03
			Exp. Route Total								2E-05					2E+00
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.2E-09	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-08	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	8.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-09	7.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.9E-05
				Aroclor 1254	2E-02	mg/kg	1.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-10	6.0E-09	mg/kg-day	2.0E-05	mg/kg-day	3.0E-04
				Aroclor 1260	2E-01	mg/kg	1.7E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-09	6.1E-08	mg/kg-day	2.0E-05	mg/kg-day	3.0E-03
				Arsenic	4E+03	mg/kg	8.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	2.9E-04	mg/kg-day	3.0E-04	mg/kg-day	9.7E-01
				Cadmium	9E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								1E-05					1E+00
		Exposure Point Total									3E-05					3E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.6E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.4E-10	1.3E-08	mg/kg-day	3.0E-04	mg/kg-day	4.2E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.0E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.4E-10	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-08	7.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.0E-02	mg/kg-day	5.2E-06
				Aroclor 1260	4E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-10	9.8E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Antimony	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+03	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-05	4.5E-04	mg/kg-day	5.9E-04	mg/kg-day	7.7E-01
				Barium	9E+01	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.1E-04
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2.6E-03
				Chromium III	1E+03	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	1E+03	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-02	mg/kg-day	9.4E-03
				Lead												
				Manganese	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-04	mg/kg-day	6.5E-02
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	2.0E-02	mg/kg-day	4.8E-04
				Thallium	8E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.3E-03
				Vanadium	1E+02	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	5.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.8E-03
				Chromium VI	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					9E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	9.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.2E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.0E-10	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.5E-06
				Aroclor 1260	4E-02	mg/kg	4.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.4E-10	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	7.7E-04
				Arsenic	2E+03	mg/kg	4.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-06	1.5E-04	mg/kg-day	3.0E-04	mg/kg-day	5.1E-01
				Cadmium	1E+01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					5E-01
		Exposure Point Total									2E-05					1E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.3E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.8E-05
				Benzo(a)anthracene	5E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-10	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.3E-09	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Aroclor 1260	3E-02	mg/kg	1.9E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.9E-10	6.7E-09	mg/kg-day	2.0E-05	mg/kg-day	3.3E-04
				Antimony	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.6E-03
				Arsenic	2E+03	mg/kg	1.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-05	5.9E-04	mg/kg-day	5.9E-04	mg/kg-day	1.0E+00
				Barium	1E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Cadmium	9E+00	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	2E+03	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	8E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-02	mg/kg-day	6.6E-03
				Lead												
				Manganese	1E+03	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	7.0E-02	mg/kg-day	3.6E-03
				Mercury	5E+00	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-04	mg/kg-day	1.2E-02
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Thallium	1E+01	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	8.0E-05	mg/kg-day	3.3E-02
				Vanadium	7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	2E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	3.0E-01	mg/kg-day	1.3E-03
				Chromium VI	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	3.0E-03	mg/kg-day	1.6E-04
			Exp. Route Total								1E-05					1E+00
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	5.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.0E-10	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.4E-06
				Aroclor 1260	3E-02	mg/kg	3.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.0E-10	1.0E-08	mg/kg-day	2.0E-05	mg/kg-day	5.2E-04
				Arsenic	2E+03	mg/kg	5.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.5E-06	2.0E-04	mg/kg-day	3.0E-04	mg/kg-day	6.6E-01
				Cadmium	9E+00	mg/kg	6.5E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.5E-05	mg/kg-day	9.1E-03
			Exp. Route Total								9E-06					7E-01
		Exposure Point Total									2E-05					2E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.4E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.6E-11	8.4E-09	mg/kg-day	3.0E-04	mg/kg-day	2.8E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-09	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	5.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.6E-10	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.5E-06
				Aroclor 1260	4E-02	mg/kg	2.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.4E-10	8.4E-09	mg/kg-day	2.0E-05	mg/kg-day	4.2E-04
				Antimony	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	4.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+03	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.2E-06	4.2E-04	mg/kg-day	5.9E-04	mg/kg-day	7.1E-01
				Barium	9E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	1.5E+00	mg/kg-day	1.5E-04
				Copper	8E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-02	mg/kg-day	6.0E-03
				Lead												
				Manganese	9E+02	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	7.0E-02	mg/kg-day	3.1E-03
				Mercury	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-04	mg/kg-day	1.3E-02
				Nickel	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	2.0E-02	mg/kg-day	4.0E-04
				Thallium	6E-01	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.6E-03
				Vanadium	7E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	1E+03	mg/kg	8.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.0E-03
			Exp. Route Total								9E-06					8E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	3.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.3E-09	4.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	7.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.3E-10	2.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	8.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.4E-06
				Aroclor 1260	4E-02	mg/kg	3.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.7E-10	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.5E-04
				Arsenic	2E+03	mg/kg	4.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-06	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.7E-01
				Cadmium	6E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.7E-03
			Exp. Route Total								6E-06					5E-01
		Exposure Point Total									2E-05					1E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.3E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.8E-05
				Benzo(a)anthracene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	3.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.3E-10	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-09	4.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.3E-06
				Aroclor 1260	3E-02	mg/kg	2.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.3E-10	8.2E-09	mg/kg-day	2.0E-05	mg/kg-day	4.1E-04
				Antimony	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	4.0E-04	mg/kg-day	9.0E-03
				Arsenic	5E+02	mg/kg	3.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.0E-01
				Barium	9E+01	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.2E-04
				Cadmium	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Chromium III	1E+03	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	8E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-02	mg/kg-day	6.6E-03
				Lead												
				Manganese	1E+03	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	5E+00	mg/kg	3.4E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-04	mg/kg-day	1.2E-02
				Nickel	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.0E-02	mg/kg-day	4.3E-04
				Thallium	6E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.7E-03
				Vanadium	7E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	1E+03	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-01	mg/kg-day	9.5E-04
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	5.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	8.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	4.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.3E-10	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	6.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.2E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.3E-06
				Aroclor 1260	3E-02	mg/kg	3.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.7E-10	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.4E-04
				Arsenic	5E+02	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	4.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.3E-01
				Cadmium	7E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	2.5E-05	mg/kg-day	7.2E-03
			Exp. Route Total								2E-06					1E-01
		Exposure Point Total									4E-06					4E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.8E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-10	1.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-05
				Benzo(a)anthracene	1E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.9E-11	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	3.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Aroclor 1260	1E-02	mg/kg	7.5E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.5E-11	2.6E-09	mg/kg-day	2.0E-05	mg/kg-day	1.3E-04
				Antimony	9E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	4.0E-04	mg/kg-day	5.4E-03
				Arsenic	3E+02	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	6.2E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	9E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.2E-04
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	1.5E+00	mg/kg-day	1.5E-04
				Copper	6E+02	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.0E-03
				Lead												
				Manganese	1E+03	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	3E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	2.0E-02	mg/kg-day	4.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	7E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	1E+03	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.4E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	5.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-10	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	4.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.8E-06
				Aroclor 1260	1E-02	mg/kg	1.2E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.2E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.0E-04
				Arsenic	3E+02	mg/kg	6.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.0E-07	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.0E-02
				Cadmium	6E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.8E-03
			Exp. Route Total								9E-07					8E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.0E-10	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	4.0E-04	mg/kg-day	1.7E-02
				Arsenic	4E+01	mg/kg	2.8E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-07	9.7E-06	mg/kg-day	5.9E-04	mg/kg-day	1.6E-02
				Barium	1E+03	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.9E-03
				Cadmium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	2E+04	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	3.7E-03	mg/kg-day	1.5E+00	mg/kg-day	2.4E-03
				Copper	4E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.8E-05	mg/kg-day	3.0E-02	mg/kg-day	3.3E-03
				Lead												
				Manganese	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	1E+00	mg/kg	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	2.0E-02	mg/kg-day	3.0E-04
				Thallium	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	8.0E-05	mg/kg-day	4.5E-03
				Vanadium	8E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-03	mg/kg-day	1.8E-02
				Zinc	1E+03	mg/kg	9.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
				Chromium VI	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	3.0E-03	mg/kg-day	1.6E-03
			Exp. Route Total								2E-07					8E-02
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.4E-10	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	4E+01	mg/kg	9.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	3.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	1E+01	mg/kg	7.3E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									4E-07					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	9.3E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.3E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor 1260	1E+00	mg/kg	1.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.0E-08	3.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.7E-02
				Antimony	5E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	3E+02	mg/kg	1.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-06	6.7E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	7.0E-02	mg/kg-day	6.2E-04
				Cadmium	1E+01	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Chromium III	1E+03	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	5E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-02	mg/kg-day	4.0E-03
				Lead												
				Manganese	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.3E-07	mg/kg-day	1.0E-04	mg/kg-day	4.3E-03
				Nickel	8E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	8.9E-04
				Thallium	4E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-02
				Vanadium	6E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
				Chromium VI	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-06					2E-01
			Dermal													
				Aroclor 1254	1E+00	mg/kg	1.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-08	5.1E-07	mg/kg-day	2.0E-05	mg/kg-day	2.5E-02
				Aroclor 1260	1E+00	mg/kg	1.6E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.6E-08	5.5E-07	mg/kg-day	2.0E-05	mg/kg-day	2.7E-02
				Arsenic	3E+02	mg/kg	6.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.7E-07	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.5E-02
				Cadmium	1E+01	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.5E-02
			Exp. Route Total								1E-06					1E-01
		Exposure Point Total									2E-06					3E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	4.0E-04	mg/kg-day	8.8E-03
				Arsenic	2E+02	mg/kg	4.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.6E-04	mg/kg-day	5.9E-04	mg/kg-day	2.7E-01
				Barium	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	1E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.6E-06	mg/kg-day	1.0E-03	mg/kg-day	7.6E-03
				Chromium III	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.5E-04
				Copper	4E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	8.7E-04	mg/kg-day	7.0E-02	mg/kg-day	1.2E-02
				Mercury	1E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-04	mg/kg-day	9.7E-03
				Nickel	4E+01	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.8E-03
				Vanadium	4E+01	mg/kg	9.1E-07	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-03	mg/kg-day	3.2E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	9E-01	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	3.0E-03	mg/kg-day	2.2E-04
			Exp. Route Total								4E-06					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-06	5.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Cadmium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	2.5E-05	mg/kg-day	3.4E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									6E-06					6E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	7.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.6E-06	2.6E-04	mg/kg-day	5.9E-04	mg/kg-day	4.3E-01
				Barium	3E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E+00	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Chromium III	5E+03	mg/kg	3.6E-05	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.4E-04
				Copper	4E+03	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	8.9E-04	mg/kg-day	3.0E-02	mg/kg-day	3.0E-02
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	7.0E-02	mg/kg-day	7.0E-04
				Mercury	9E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Nickel	8E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.5E-05
				Thallium	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	8.0E-05	mg/kg-day	4.5E-03
				Vanadium	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	1E+03	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-01	mg/kg-day	9.3E-04
				Chromium VI	7E+00	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-03	mg/kg-day	5.5E-04
			Exp. Route Total								6E-06					7E-01
			Dermal													
				Arsenic	1E+03	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								4E-06					3E-01
		Exposure Point Total									9E-06					1E+00
		Station TT-31	Ingestion													
				Arsenic	2E+01	mg/kg	1.1E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.7E-08	3.9E-06	mg/kg-day	5.9E-04	mg/kg-day	6.7E-03
				Barium	9E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.1E-04
				Cadmium	4E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	1.0E-03	mg/kg-day	9.9E-04
				Chromium III	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	1.5E+00	mg/kg-day	2.9E-05
				Copper	1E+02	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	3.0E-02	mg/kg-day	9.0E-04
				Lead												
				Manganese	6E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	1.0E-04	mg/kg-day	3.4E-03
				Nickel	3E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Vanadium	5E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	5E+02	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-01	mg/kg-day	3.7E-04
			Exp. Route Total								9E-08					3E-02
			Dermal													
				Arsenic	2E+01	mg/kg	3.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-08	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.4E-03
				Cadmium	4E+00	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.4E-03
			Exp. Route Total								6E-08					9E-03
		Exposure Point Total									1E-07					3E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	4.0E-04	mg/kg-day	3.6E-03
				Arsenic	6E+01	mg/kg	1.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.1E-07	4.1E-05	mg/kg-day	5.9E-04	mg/kg-day	7.0E-02
				Barium	6E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	7.0E-02	mg/kg-day	6.0E-04
				Cadmium	9E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium III	3E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.8E-02
				Lead												
				Manganese	7E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	4.9E-04	mg/kg-day	7.0E-02	mg/kg-day	7.0E-03
				Mercury	3E+00	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-04	mg/kg-day	2.1E-02
				Nickel	2E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.3E-04
				Thallium	3E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	1.0E-03	mg/kg-day	5.7E-02
				Zinc	6E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								9E-07					2E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
				Cadmium	9E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								6E-07					8E-02
		Exposure Point Total									2E-06					3E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	4E+01	mg/kg	8.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.5E-07	3.0E-05	mg/kg-day	5.9E-04	mg/kg-day	5.0E-02
				Barium	2E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	4E+00	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Chromium III	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.8E-05
				Copper	1E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.3E-03
				Lead												
				Manganese	7E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	7.0E-02	mg/kg-day	7.3E-04
				Mercury	3E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Nickel	1E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.6E-04
				Vanadium	3E+01	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	3E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.5E-04
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	4E+01	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-07	9.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
				Cadmium	4E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.2E-02
			Exp. Route Total								4E-07					5E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	2E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.7E-03
				Arsenic	6E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.3E-06	4.2E-04	mg/kg-day	5.9E-04	mg/kg-day	7.2E-01
				Barium	7E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	7.0E-02	mg/kg-day	6.8E-04
				Cadmium	1E+01	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	1.0E-03	mg/kg-day	9.3E-03
				Chromium III	5E+02	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	3.0E-02	mg/kg-day	8.9E-03
				Lead												
				Manganese	5E+02	mg/kg	9.4E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	7.0E-02	mg/kg-day	4.7E-03
				Mercury	2E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	4E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	8.0E-05	mg/kg-day	8.6E-03
				Vanadium	6E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
				Zinc	2E+03	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.0E-03
			Exp. Route Total								9E-06					8E-01
			Dermal													
				Arsenic	6E+02	mg/kg	4.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-06	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.7E-01
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.5E-05	mg/kg-day	4.2E-02
			Exp. Route Total								6E-06					5E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	9.7E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-06	1.3E-04	mg/kg-day	5.9E-04	mg/kg-day	2.2E-01
				Barium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.8E-04
				Cadmium	6E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	4.1E-03
				Chromium III	3E+02	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	1.5E+00	mg/kg-day	1.3E-04
				Copper	2E+02	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	9.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-02
				Mercury	1E+00	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	1.0E-04	mg/kg-day	8.6E-03
				Nickel	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
				Thallium	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.0E-02
				Vanadium	7E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	3E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	3.0E-01	mg/kg-day	7.3E-03
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-06	4.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
				Cadmium	6E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									5E-06					5E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.4E-03
				Arsenic	1E+02	mg/kg	2.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	5E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	7.0E-02	mg/kg-day	5.2E-04
				Cadmium	2E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Chromium III	5E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.6E-03
				Lead												
				Manganese	9E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	6.7E-05	mg/kg-day	7.0E-02	mg/kg-day	9.5E-04
				Mercury	3E-01	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-04	mg/kg-day	2.4E-03
				Nickel	3E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.0E-02	mg/kg-day	9.8E-04
				Thallium	4E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	8.0E-05	mg/kg-day	3.7E-02
				Vanadium	7E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	1.0E-03	mg/kg-day	5.1E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	6E-01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								2E-06					3E-01
			Dermal													
				Arsenic	1E+02	mg/kg	9.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	3.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.5E-02
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									4E-06					5E-01
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.5E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	5E+00	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Chromium III	7E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Lead												
				Manganese	3E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	7.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	1E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	1.0E-04	mg/kg-day	3.1E-03
				Nickel	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Vanadium	9E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	1.0E-03	mg/kg-day	2.2E-02
				Zinc	6E+02	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-01	mg/kg-day	4.9E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.9E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	6.7E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.9E-11	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	4.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-10	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	8.8E-10	mg/kg-day	N/A	N/A	N/A	3.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.5E-06
				Antimony	6E+00	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.5E-03
				Arsenic	2E+02	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	5.6E-05	mg/kg-day	5.9E-04	mg/kg-day	9.5E-02
				Barium	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Chromium III	6E+02	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.1E-05
				Copper	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.5E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	1.0E-04	mg/kg-day	8.1E-03
				Nickel	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
				Chromium VI	7E-01	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	9.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.1E-11	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-10	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.2E-06
				Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	6E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								8E-07					7E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	8.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-10	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	5.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.0E-02	mg/kg-day	3.6E-06
				Antimony	1E+00	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.0E-04
				Arsenic	3E+01	mg/kg	2.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-07	8.3E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	6E+01	mg/kg	4.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.0E-04
				Lead												
				Manganese	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	4E-01	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	1.0E-04	mg/kg-day	9.1E-04
				Nickel	1E+01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	1E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	8.0E-05	mg/kg-day	3.8E-03
				Vanadium	1E+01	mg/kg	9.3E-08	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
				Zinc	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	5.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-09	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-10	4.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	8.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.3E-06
				Arsenic	3E+01	mg/kg	7.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.3E-03
				Cadmium	7E-01	mg/kg	5.2E-10	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	2.5E-05	mg/kg-day	7.2E-04
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.2E-03
				Arsenic	1E+02	mg/kg	8.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.3E-07	2.9E-05	mg/kg-day	5.9E-04	mg/kg-day	4.9E-02
				Barium	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Cadmium	4E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	1.0E-03	mg/kg-day	9.3E-04
				Chromium III	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.1E-05
				Copper	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	1E+03	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.9E-03
				Mercury	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	1.0E-04	mg/kg-day	4.5E-03
				Nickel	2E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	3E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.0E-03	mg/kg-day	6.4E-03
				Zinc	9E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
			Exp. Route Total								6E-07					7E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-07	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	9E+01	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	1E+02	mg/kg	7.6E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	3.0E-02	mg/kg-day	8.9E-04
				Lead												
				Manganese	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.6E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.0E-04	mg/kg-day	2.1E-03
				Nickel	9E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Vanadium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								3E-07					3E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
				Cadmium	1E+00	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					5E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	9.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.7E-10	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	6.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.7E-06
				Antimony	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	2E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.8E-08	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Chromium III	5E+01	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.6E-06
				Copper	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	5E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Nickel	1E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	9.7E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.3E-03
				Vanadium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	4E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								1E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-09	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	6.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.3E-09	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.8E-10	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	9.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.7E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	4.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.2E-06
				Arsenic	2E+01	mg/kg	4.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.4E-08	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									3E-07					2E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.5E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	6.0E-11	5.3E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Benzo(a)anthracene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.7E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-08	2.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.5E-09	2.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	9.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.1E-05
				Aroclor 1260	7E-02	mg/kg	4.5E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.5E-10	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	7.9E-04
				Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	4.0E-04	mg/kg-day	1.4E-03
				Arsenic	8E+01	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.2E-02
				Barium	8E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Cadmium	5E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Chromium III	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	1.5E+00	mg/kg-day	3.9E-05
				Copper	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	4E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.3E-04
				Thallium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	8.0E-05	mg/kg-day	6.6E-03
				Vanadium	5E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	1E+03	mg/kg	9.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								8E-07					7E-02
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	9.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-08	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	9.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.6E-09	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.8E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Aroclor 1260	7E-02	mg/kg	7.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.1E-10	2.5E-08	mg/kg-day	2.0E-05	mg/kg-day	1.2E-03
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.4E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	5E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.5E-05	mg/kg-day	5.4E-03
			Exp. Route Total								9E-07					3E-02
		Exposure Point Total									2E-06					9E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	4.0E-04	mg/kg-day	1.0E-03
				Arsenic	2E+02	mg/kg	1.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.9E-07	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.1E-02
				Barium	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Cadmium	3E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	1.0E-03	mg/kg-day	6.3E-04
				Chromium III	8E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	7.0E-02	mg/kg-day	7.1E-04
				Mercury	7E-01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
				Nickel	1E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
				Vanadium	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	1E+03	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	3.1E-04	mg/kg-day	3.0E-01	mg/kg-day	1.0E-03
			Exp. Route Total								8E-07					8E-02
			Dermal													
				Arsenic	2E+02	mg/kg	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.2E-07	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.0E-02
				Cadmium	3E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	7.0E-08	mg/kg-day	2.5E-05	mg/kg-day	2.8E-03
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	4.0E-04	mg/kg-day	1.5E-03
				Arsenic	1E+02	mg/kg	7.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-07	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	7.0E-02	mg/kg-day	3.5E-04
				Cadmium	1E+01	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	1.0E-03	mg/kg-day	2.8E-03
				Chromium III	7E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-02	mg/kg-day	4.0E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.3E-07	mg/kg-day	1.0E-04	mg/kg-day	7.3E-03
				Nickel	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.0E-02	mg/kg-day	4.4E-04
				Thallium	1E+00	mg/kg	7.3E-09	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	8.0E-05	mg/kg-day	3.2E-03
				Vanadium	7E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-07	9.3E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
				Cadmium	1E+01	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	2.5E-05	mg/kg-day	1.3E-02
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Antimony	9E-01	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.6E-04
				Arsenic	8E+00	mg/kg	5.6E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium III	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.5E+00	mg/kg-day	5.3E-06
				Copper	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E-02	mg/kg	6.1E-10	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	1.0E-04	mg/kg-day	2.1E-04
				Nickel	1E+01	mg/kg	6.9E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Thallium	6E-01	mg/kg	4.2E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	8.0E-05	mg/kg-day	1.8E-03
				Vanadium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-03	mg/kg-day	4.5E-03
				Zinc	1E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-01	mg/kg-day	9.6E-05
			Exp. Route Total								7E-08					1E-02
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-10	8.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Arsenic	8E+00	mg/kg	1.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-08	6.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
				Cadmium	2E-01	mg/kg	1.7E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								6E-08					2E-03
		Exposure Point Total									1E-07					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	6E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-10	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Aroclor 1260	5E-02	mg/kg	3.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.4E-10	1.2E-08	mg/kg-day	2.0E-05	mg/kg-day	5.9E-04
				Antimony	8E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	4.0E-04	mg/kg-day	4.7E-04
				Arsenic	3E+01	mg/kg	2.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-07	7.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-03	mg/kg-day	4.1E-04
				Chromium III	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	4.9E-04
				Lead												
				Manganese	2E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	7.0E-02	mg/kg-day	7.3E-04
				Mercury	3E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	1.0E-04	mg/kg-day	6.3E-04
				Nickel	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Vanadium	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.1E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-09	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	5.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Aroclor 1260	5E-02	mg/kg	5.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	5.3E-10	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.3E-04
				Arsenic	3E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.8E-03
				Cadmium	2E+00	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.6E-09	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.2E-10	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-11	4.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	8.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Antimony	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	4.0E-04	mg/kg-day	5.2E-04
				Arsenic	6E+00	mg/kg	4.2E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-08	1.5E-06	mg/kg-day	5.9E-04	mg/kg-day	2.5E-03
				Barium	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	1.0E-03	mg/kg-day	3.9E-05
				Chromium III	8E+00	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.5E+00	mg/kg-day	1.3E-06
				Copper	1E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.3E-05
				Lead												
				Manganese	8E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Nickel	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.6E-05
				Thallium	5E-01	mg/kg	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.1E-05
			Exp. Route Total								4E-08					7E-03
			Dermal													
				Benzo(a)anthracene	2E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.7E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Arsenic	6E+00	mg/kg	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-08	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	2E-01	mg/kg	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.4E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									8E-08					9E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	4.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	1.0E-03	mg/kg-day	5.1E-04
				Chromium VI	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-03	mg/kg-day	1.4E-02
				Copper	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Manganese	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.0E-03
				Mercury	8E-01	mg/kg	5.5E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Vanadium	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	1.0E-03	mg/kg-day	6.0E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.2E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Cadmium	2E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									3E-06					2E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-06	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	2E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-03	mg/kg-day	2.8E-04
				Chromium VI	2E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-03	mg/kg-day	8.7E-03
				Copper	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	2E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.9E-03
				Mercury	1E-01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
				Thallium	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	2E+01	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-03	mg/kg-day	3.4E-02
				Zinc	7E+01	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	3.0E-01	mg/kg-day	3.4E-04
			Exp. Route Total								2E-06					1E-01
			Dermal													
				Arsenic	1E+01	mg/kg	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.0E-03
				Cadmium	2E-01	mg/kg	4.4E-10	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.2E-04
			Exp. Route Total								1E-07					9E-03
		Exposure Point Total									2E-06					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	7.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	8.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.8E-01
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.5E-02
				Copper	5E+01	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	3E-01	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-04	mg/kg-day	4.1E-03
				Thallium	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.9E-02
				Vanadium	3E+01	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	1.0E-03	mg/kg-day	3.7E-02
				Zinc	2E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-01	mg/kg-day	7.9E-04
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	7E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								6E-07					5E-02
		Exposure Point Total									1E-05					5E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	4.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	1E+00	mg/kg	9.2E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-03	mg/kg-day	3.2E-04
				Chromium VI	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-03	mg/kg-day	3.1E-02
				Copper	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Manganese	8E+02	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	7.0E-02	mg/kg-day	2.7E-03
				Mercury	1E+00	mg/kg	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Thallium	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.9E-03
				Vanadium	4E+01	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.0E-03	mg/kg-day	9.0E-03
				Zinc	6E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.2E-02
				Cadmium	1E+00	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								7E-07					5E-02
		Exposure Point Total									3E-06					3E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.6E-02
				Cadmium	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	1.0E-03	mg/kg-day	3.3E-04
				Chromium VI	1E+02	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	1E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.6E-04
				Manganese	8E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	7.0E-02	mg/kg-day	2.8E-03
				Mercury	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Vanadium	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	1.0E-03	mg/kg-day	6.9E-03
				Zinc	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-01	mg/kg-day	3.1E-04
			Exp. Route Total								5E-07					6E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	1E+00	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-07					7E-02
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	3.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
				Chromium VI	1E+02	mg/kg	9.5E-07	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	3.0E-03	mg/kg-day	1.1E-02
				Copper	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	8.0E-04
				Manganese	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	1E+00	mg/kg	6.5E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	2E+04	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	4.5E-03	mg/kg-day	3.0E-01	mg/kg-day	1.5E-02
			Exp. Route Total								5E-07					8E-02
			Dermal													
				Arsenic	4E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-07	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	2E-01	mg/kg	1.4E-10	mg/kg-day	N/A	N/A	N/A	5.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.0E-04
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-07					9E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.5.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	6.0E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	7.0E-07	mg/kg-day	2.0E-03	mg/kg-day	3.5E-04
				4,4'-DDE	2E-02	mg/kg	1.4E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
				4,4'-DDT	3E-03	mg/kg	2.5E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.6E-09	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	5.9E-04
				Aldrin	3E-04	mg/kg	2.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	4.9E-08	3.4E-08	mg/kg-day	3.0E-05	mg/kg-day	1.1E-03
				alpha-Chlordane	6E-03	mg/kg	5.2E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.8E-08	6.0E-07	mg/kg-day	5.0E-04	mg/kg-day	1.2E-03
				Aroclor-1254	2E-02	mg/kg	2.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.3E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				Aroclor-1260	6E-02	mg/kg	5.6E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-06	6.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.3E-01
				delta-BHC	6E-04	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Dieldrin	2E-03	mg/kg	2.0E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.2E-07	2.3E-07	mg/kg-day	5.0E-05	mg/kg-day	4.7E-03
				Heptachlor epoxide	8E-04	mg/kg	7.6E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	6.9E-08	8.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.8E-03
				Antimony	9E-02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	4.0E-04	mg/kg-day	2.5E-02
				Lead												
				Mercury	4E-01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-04	mg/kg-day	3.8E-01
				Selenium	6E-01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-06					9E-01
		Exposure Point Total									2E-06					9E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	1.7E-06	mg/kg-day	2.0E-03	mg/kg-day	8.3E-04
				4,4'-DDE	9E-02	mg/kg	7.7E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.6E-07	9.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				4,4'-DDT	8E-03	mg/kg	7.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	8.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.7E-03
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	3E-03	mg/kg	2.3E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	8.0E-09	2.7E-07	mg/kg-day	5.0E-04	mg/kg-day	5.3E-04
				Aroclor-1254	9E-02	mg/kg	7.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.5E-06	9.0E-06	mg/kg-day	2.0E-05	mg/kg-day	4.5E-01
				Aroclor-1260	2E-01	mg/kg	1.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.4E-06	2.0E-05	mg/kg-day	2.0E-05	mg/kg-day	9.9E-01
				Dieldrin	2E-03	mg/kg	1.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.2E-07	1.6E-07	mg/kg-day	5.0E-05	mg/kg-day	3.1E-03
				Antimony	8E-02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.0E-02
				Lead												
				Mercury	3E-01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-04	mg/kg-day	3.2E-01
				Selenium	7E-01	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	5.0E-03	mg/kg-day	1.4E-02
			Exp. Route Total								6E-06					2E+00
		Exposure Point Total									6E-06					2E+00

TABLE 3-7.5.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.1E-06	mg/kg-day	2.0E-03	mg/kg-day	1.0E-03
				4,4'-DDE	6E-02	mg/kg	5.2E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				4,4'-DDT	5E-03	mg/kg	4.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	4.9E-07	mg/kg-day	5.0E-04	mg/kg-day	9.8E-04
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	8E-03	mg/kg	7.5E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.6E-08	8.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.8E-03
				Aroclor-1248	8E-03	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-07	8.3E-07	mg/kg-day	2.0E-05	mg/kg-day	4.1E-02
				Aroclor-1254	1E-01	mg/kg	1.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.3E-06	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
				Aroclor-1260	8E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	8.2E-06	mg/kg-day	2.0E-05	mg/kg-day	4.1E-01
				Dieldrin	2E-03	mg/kg	2.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.3E-07	2.4E-07	mg/kg-day	5.0E-05	mg/kg-day	4.8E-03
				Heptachlor epoxide	5E-04	mg/kg	4.8E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.3E-08	5.6E-08	mg/kg-day	1.3E-05	mg/kg-day	4.3E-03
				Arsenic	2E-01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.5E-02
				Lead												
				Mercury	2E-01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Selenium	6E-01	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								7E-06					1E+00
		Exposure Point Total									7E-06					1E+00
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.5.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	7.7E-09	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.7E-07	mg/kg-day	2.0E-03	mg/kg-day	1.3E-04
				4,4'-DDE	2E-02	mg/kg	1.8E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.2E-09	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				4,4'-DDT	3E-03	mg/kg	3.2E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.1E-07	mg/kg-day	5.0E-04	mg/kg-day	2.3E-04
				Aldrin	3E-04	mg/kg	3.7E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	6.3E-09	1.3E-08	mg/kg-day	3.0E-05	mg/kg-day	4.3E-04
				alpha-Chlordane	6E-03	mg/kg	6.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.3E-09	2.3E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	2E-02	mg/kg	2.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.5E-08	8.8E-07	mg/kg-day	2.0E-05	mg/kg-day	4.4E-02
				Aroclor-1260	6E-02	mg/kg	7.2E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.2E-08	2.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.3E-01
				delta-BHC	5E-04	mg/kg	6.2E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.3E-05
				Dieldrin	2E-03	mg/kg	2.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	4.1E-08	9.0E-08	mg/kg-day	5.0E-05	mg/kg-day	1.8E-03
				Heptachlor epoxide	8E-04	mg/kg	9.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	8.9E-09	3.4E-08	mg/kg-day	1.3E-05	mg/kg-day	2.6E-03
				Antimony	9E-02	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	4.0E-04	mg/kg-day	9.6E-03
				Lead												
				Mercury	4E-01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Selenium	6E-01	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	5.0E-03	mg/kg-day	4.6E-03
			Exp. Route Total								2E-07					3E-01
		Exposure Point Total									2E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.4E-09	6.4E-07	mg/kg-day	2.0E-03	mg/kg-day	3.2E-04
				4,4'-DDE	9E-02	mg/kg	9.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				4,4'-DDT	8E-03	mg/kg	9.3E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.2E-09	3.3E-07	mg/kg-day	5.0E-04	mg/kg-day	6.5E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	3E-03	mg/kg	2.9E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aroclor-1254	9E-02	mg/kg	9.9E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.9E-08	3.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.7E-01
				Aroclor-1260	2E-01	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	7.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.8E-01
				Dieldrin	1E-03	mg/kg	1.7E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.7E-08	5.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.2E-03
				Antimony	8E-02	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.7E-03
				Lead												
				Mercury	3E-01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-04	mg/kg-day	1.2E-01
				Selenium	7E-01	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	5.0E-03	mg/kg-day	5.5E-03
			Exp. Route Total								4E-07					7E-01
		Exposure Point Total									4E-07					7E-01

TABLE 3-7.5.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	2.3E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.5E-09	8.1E-07	mg/kg-day	2.0E-03	mg/kg-day	4.0E-04
				4,4'-DDE	6E-02	mg/kg	6.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.3E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.8E-03
				4,4'-DDT	5E-03	mg/kg	5.4E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	1.9E-07	mg/kg-day	5.0E-04	mg/kg-day	3.8E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	8E-03	mg/kg	9.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.4E-09	3.4E-07	mg/kg-day	5.0E-04	mg/kg-day	6.7E-04
				Aroclor-1248	8E-03	mg/kg	9.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.1E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor-1254	1E-01	mg/kg	1.5E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-07	5.2E-06	mg/kg-day	2.0E-05	mg/kg-day	2.6E-01
				Aroclor-1260	8E-02	mg/kg	9.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.0E-08	3.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.6E-01
				Dieldrin	2E-03	mg/kg	2.5E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.9E-08	8.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.7E-03
				Heptachlor epoxide	5E-04	mg/kg	6.1E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.6E-09	2.1E-08	mg/kg-day	1.3E-05	mg/kg-day	1.6E-03
				Arsenic	2E-01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Lead												
				Mercury	1E-01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	1.0E-04	mg/kg-day	5.9E-02
				Selenium	6E-01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	5.0E-03	mg/kg-day	5.0E-03
			Exp. Route Total								6E-07					5E-01
		Exposure Point Total									6E-07					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	6.0E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	7.0E-07	mg/kg-day	2.0E-03	mg/kg-day	3.5E-04
				4,4'-DDE	2E-02	mg/kg	1.4E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
				4,4'-DDT	3E-03	mg/kg	2.5E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.6E-09	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	5.9E-04
				Aldrin	3E-04	mg/kg	2.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	4.9E-08	3.4E-08	mg/kg-day	3.0E-05	mg/kg-day	1.1E-03
				alpha-Chlordane	6E-03	mg/kg	5.2E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.8E-08	6.0E-07	mg/kg-day	5.0E-04	mg/kg-day	1.2E-03
				Aroclor-1254	2E-02	mg/kg	2.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.3E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				Aroclor-1260	6E-02	mg/kg	5.6E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-06	6.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.3E-01
				delta-BHC	6E-04	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Dieldrin	2E-03	mg/kg	2.0E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.2E-07	2.3E-07	mg/kg-day	5.0E-05	mg/kg-day	4.7E-03
				Heptachlor epoxide	8E-04	mg/kg	7.6E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	6.9E-08	8.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.8E-03
				Antimony	9E-02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	4.0E-04	mg/kg-day	2.5E-02
				Lead												
				Mercury	4E-01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-04	mg/kg-day	3.8E-01
				Selenium	6E-01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-06					9E-01
		Exposure Point Total									2E-06					9E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	1.7E-06	mg/kg-day	2.0E-03	mg/kg-day	8.3E-04
				4,4'-DDE	9E-02	mg/kg	7.7E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.6E-07	9.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				4,4'-DDT	8E-03	mg/kg	7.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	8.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.7E-03
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	3E-03	mg/kg	2.3E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	8.0E-09	2.7E-07	mg/kg-day	5.0E-04	mg/kg-day	5.3E-04
				Aroclor-1254	9E-02	mg/kg	7.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.5E-06	9.0E-06	mg/kg-day	2.0E-05	mg/kg-day	4.5E-01
				Aroclor-1260	2E-01	mg/kg	1.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.4E-06	2.0E-05	mg/kg-day	2.0E-05	mg/kg-day	9.9E-01
				Dieldrin	2E-03	mg/kg	1.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.2E-07	1.6E-07	mg/kg-day	5.0E-05	mg/kg-day	3.1E-03
				Antimony	8E-02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.0E-02
				Lead												
				Mercury	3E-01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-04	mg/kg-day	3.2E-01
				Selenium	7E-01	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	5.0E-03	mg/kg-day	1.4E-02
			Exp. Route Total								6E-06					2E+00
		Exposure Point Total									6E-06					2E+00

TABLE 3-7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.1E-06	mg/kg-day	2.0E-03	mg/kg-day	1.0E-03
				4,4'-DDE	6E-02	mg/kg	5.2E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				4,4'-DDT	5E-03	mg/kg	4.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	4.9E-07	mg/kg-day	5.0E-04	mg/kg-day	9.8E-04
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	8E-03	mg/kg	7.5E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.6E-08	8.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.8E-03
				Aroclor-1248	8E-03	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-07	8.3E-07	mg/kg-day	2.0E-05	mg/kg-day	4.1E-02
				Aroclor-1254	1E-01	mg/kg	1.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.3E-06	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
				Aroclor-1260	8E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	8.2E-06	mg/kg-day	2.0E-05	mg/kg-day	4.1E-01
				Dieldrin	2E-03	mg/kg	2.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.3E-07	2.4E-07	mg/kg-day	5.0E-05	mg/kg-day	4.8E-03
				Heptachlor epoxide	5E-04	mg/kg	4.8E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.3E-08	5.6E-08	mg/kg-day	1.3E-05	mg/kg-day	4.3E-03
				Arsenic	2E-01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.5E-02
				Lead												
				Mercury	2E-01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Selenium	6E-01	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								7E-06					1E+00
		Exposure Point Total									7E-06					1E+00
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	7.7E-09	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.7E-07	mg/kg-day	2.0E-03	mg/kg-day	1.3E-04
				4,4'-DDE	2E-02	mg/kg	1.8E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.2E-09	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				4,4'-DDT	3E-03	mg/kg	3.2E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.1E-07	mg/kg-day	5.0E-04	mg/kg-day	2.3E-04
				Aldrin	3E-04	mg/kg	3.7E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	6.3E-09	1.3E-08	mg/kg-day	3.0E-05	mg/kg-day	4.3E-04
				alpha-Chlordane	6E-03	mg/kg	6.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.3E-09	2.3E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	2E-02	mg/kg	2.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.5E-08	8.8E-07	mg/kg-day	2.0E-05	mg/kg-day	4.4E-02
				Aroclor-1260	6E-02	mg/kg	7.2E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.2E-08	2.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.3E-01
				delta-BHC	5E-04	mg/kg	6.2E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.3E-05
				Dieldrin	2E-03	mg/kg	2.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	4.1E-08	9.0E-08	mg/kg-day	5.0E-05	mg/kg-day	1.8E-03
				Heptachlor epoxide	8E-04	mg/kg	9.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	8.9E-09	3.4E-08	mg/kg-day	1.3E-05	mg/kg-day	2.6E-03
				Antimony	9E-02	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	4.0E-04	mg/kg-day	9.6E-03
				Lead												
				Mercury	4E-01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Selenium	6E-01	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	5.0E-03	mg/kg-day	4.6E-03
			Exp. Route Total								2E-07					3E-01
		Exposure Point Total									2E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.4E-09	6.4E-07	mg/kg-day	2.0E-03	mg/kg-day	3.2E-04
				4,4'-DDE	9E-02	mg/kg	9.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				4,4'-DDT	8E-03	mg/kg	9.3E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.2E-09	3.3E-07	mg/kg-day	5.0E-04	mg/kg-day	6.5E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	3E-03	mg/kg	2.9E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aroclor-1254	9E-02	mg/kg	9.9E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.9E-08	3.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.7E-01
				Aroclor-1260	2E-01	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	7.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.8E-01
				Dieldrin	1E-03	mg/kg	1.7E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.7E-08	5.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.2E-03
				Antimony	8E-02	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.7E-03
				Lead												
				Mercury	3E-01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-04	mg/kg-day	1.2E-01
				Selenium	7E-01	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	5.0E-03	mg/kg-day	5.5E-03
			Exp. Route Total								4E-07					7E-01
		Exposure Point Total									4E-07					7E-01

TABLE 3-7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	2.3E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.5E-09	8.1E-07	mg/kg-day	2.0E-03	mg/kg-day	4.0E-04
				4,4'-DDE	6E-02	mg/kg	6.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.3E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.8E-03
				4,4'-DDT	5E-03	mg/kg	5.4E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	1.9E-07	mg/kg-day	5.0E-04	mg/kg-day	3.8E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	8E-03	mg/kg	9.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.4E-09	3.4E-07	mg/kg-day	5.0E-04	mg/kg-day	6.7E-04
				Aroclor-1248	8E-03	mg/kg	9.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.1E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor-1254	1E-01	mg/kg	1.5E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-07	5.2E-06	mg/kg-day	2.0E-05	mg/kg-day	2.6E-01
				Aroclor-1260	8E-02	mg/kg	9.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.0E-08	3.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.6E-01
				Dieldrin	2E-03	mg/kg	2.5E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.9E-08	8.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.7E-03
				Heptachlor epoxide	5E-04	mg/kg	6.1E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.6E-09	2.1E-08	mg/kg-day	1.3E-05	mg/kg-day	1.6E-03
				Arsenic	2E-01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Lead												
				Mercury	1E-01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	1.0E-04	mg/kg-day	5.9E-02
				Selenium	6E-01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	5.0E-03	mg/kg-day	5.0E-03
			Exp. Route Total								6E-07					5E-01
		Exposure Point Total									6E-07					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.7.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	AJRW	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	7.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05
				Tetrachloroethene	2E+00	ug/L	1.0E-06	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	5.6E-07	3.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.0E-04
				Chromium VI	9E-01	ug/L	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
			Exp. Route Total								6E-07					3E-03
		Exposure Point Total									6E-07					3E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion													
				Arsenic	2E+01	mg/kg	9.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.7E-07	2.9E-06	mg/kg-day	5.9E-04	mg/kg-day	4.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.1E-04
				Mercury	7E-01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
			Exp. Route Total								8E-07					6E-03
			Dermal													
				Arsenic	2E+01	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-07	6.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
			Exp. Route Total								4E-07					2E-03
		Exposure Point Total									1E-06					9E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion													
				Arsenic	7E+01	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.3E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Chromium III	5E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	1.5E+00	mg/kg-day	5.4E-06
				Lead												
				Manganese	4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	7.0E-02	mg/kg-day	7.7E-04
				Mercury	7E-01	mg/kg	3.4E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Vanadium	5E+01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.0E-03	mg/kg-day	8.0E-03
			Exp. Route Total								5E-06					4E-02
			Dermal													
				Arsenic	7E+01	mg/kg	8.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	8.2E-03
			Exp. Route Total								1E-06					8E-03
		Exposure Point Total									7E-06					5E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.7.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	AJRW	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06
				Tetrachloroethene	2E+00	ug/L	7.1E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.8E-08	7.1E-07	mg/kg-day	1.0E-02	mg/kg-day	7.1E-05
				Chromium VI	9E-01	ug/L	4.9E-10	mg/kg-day	N/A	N/A	N/A	4.9E-09	mg/kg-day	7.5E-05	mg/kg-day	6.6E-05
				Manganese	3E+02	ug/L	9.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
			Exp. Route Total								4E-08					5E-04
		Exposure Point Total									4E-08					5E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion													
				Arsenic	2E+01	mg/kg	4.8E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-08	4.8E-07	mg/kg-day	5.9E-04	mg/kg-day	8.2E-04
				Lead												
				Manganese	2E+02	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	7.0E-02	mg/kg-day	8.4E-05
				Mercury	7E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	1.0E-04	mg/kg-day	1.8E-04
			Exp. Route Total								4E-08					1E-03
			Dermal													
				Arsenic	2E+01	mg/kg	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.7E-04
			Exp. Route Total								3E-08					8E-04
		Exposure Point Total									7E-08					2E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion													
				Arsenic	7E+01	mg/kg	1.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.7E-03
				Chromium III	5E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day	9.1E-07
				Lead												
				Manganese	4E+02	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	1.0E-04	mg/kg-day	1.7E-04
				Vanadium	5E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
			Exp. Route Total								3E-07					7E-03
			Dermal													
				Arsenic	7E+01	mg/kg	8.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
			Exp. Route Total								1E-07					3E-03
		Exposure Point Total									4E-07					1E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.8.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	AJRW	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	4.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-02	mg/kg-day	5.2E-05
				Tetrachloroethene	2E+00	ug/L	5.9E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.2E-07	6.9E-06	mg/kg-day	1.0E-02	mg/kg-day	6.9E-04
				Chromium VI	9E-01	ug/L	5.8E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	7.5E-05	mg/kg-day	9.0E-04
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
			Exp. Route Total								3E-07					6E-03
		Exposure Point Total									3E-07					6E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion													
				Arsenic	2E+01	mg/kg	2.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-06	2.7E-05	mg/kg-day	5.9E-04	mg/kg-day	4.6E-02
				Lead												
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	7.0E-02	mg/kg-day	4.7E-03
				Mercury	7E-01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
			Exp. Route Total								2E-06					6E-02
			Dermal													
				Arsenic	2E+01	mg/kg	3.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.8E-07	4.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
			Exp. Route Total								6E-07					2E-02
		Exposure Point Total									2E-06					8E-02
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion													
				Arsenic	7E+01	mg/kg	8.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	9.6E-05	mg/kg-day	3.0E-04	mg/kg-day	3.2E-01
				Chromium III	5E+01	mg/kg	6.5E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.1E-05
				Lead												
				Manganese	4E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	7.0E-02	mg/kg-day	7.2E-03
				Mercury	7E-01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	1.0E-04	mg/kg-day	9.4E-03
				Vanadium	5E+01	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	1.0E-03	mg/kg-day	7.4E-02
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	7E+01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.4E-02
			Exp. Route Total								2E-06					5E-02
		Exposure Point Total									1E-05					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.8.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	AJRW	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	1.2E-05
				Tetrachloroethene	2E+00	ug/L	4.6E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Chromium VI	9E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	7.5E-05	mg/kg-day	1.5E-04
				Manganese	3E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.6E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion													
				Arsenic	2E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.9E-08	4.5E-06	mg/kg-day	5.9E-04	mg/kg-day	7.6E-03
				Lead												
				Manganese	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
			Exp. Route Total								1E-07					1E-02
			Dermal													
				Arsenic	2E+01	mg/kg	4.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-08	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.1E-03
			Exp. Route Total								6E-08					5E-03
		Exposure Point Total									2E-07					2E-02
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion													
				Arsenic	7E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Chromium III	5E+01	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.5E-06
				Lead												
				Manganese	4E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	7E-01	mg/kg	4.5E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Vanadium	5E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								7E-07					7E-02
			Dermal													
				Arsenic	7E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-07	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
			Exp. Route Total								2E-07					2E-02
		Exposure Point Total									9E-07					9E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	4.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.6E-04
				Chromium VI	1E+01	ug/L	3.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	6E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.3E-03
				Mercury	6E-02	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	3.8E-10	mg/kg-day	2.1E-05	mg/kg-day	1.8E-05
			Exp. Route Total								7E-08					3E-03
		Exposure Point Total									7E-08					3E-03
		SW-05 - 52 days	Dermal													
				Arsenic	2E+01	ug/L	9.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.8E-07	mg/kg-day	3.0E-04	mg/kg-day	9.2E-04
				Chromium VI	1E+01	ug/L	7.6E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	3.0E-03
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
				Mercury	6E-02	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	7.5E-10	mg/kg-day	2.1E-05	mg/kg-day	3.6E-05
			Exp. Route Total								1E-07					7E-03
		Exposure Point Total									1E-07					7E-03
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Manganese	6E+02	ug/L	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.8E-03	mg/kg-day	4.0E-03
				Mercury	6E-02	ug/L	3.9E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.4E-05
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
		SW-05 - 104 days	Dermal													
				Arsenic	2E+01	ug/L	1.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-07	5.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Chromium VI	1E+01	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	7.5E-05	mg/kg-day	5.9E-03
				Manganese	6E+02	ug/L	5.2E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.4E-03
				Mercury	6E-02	ug/L	5.2E-10	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.2E-05
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	2.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-08	8.3E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Chromium VI	6E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	7.5E-05	mg/kg-day	9.8E-04
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									4E-08					2E-03

TABLE 3-7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-06 - 78 days	Dermal													
				Arsenic	1E+01	ug/L	8.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.3E-04
				Chromium VI	6E+00	ug/L	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	2.9E-03
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
			Exp. Route Total								1E-07					7E-03
		Exposure Point Total									1E-07					7E-03
		SW-06 - 104 days	Dermal													
				Arsenic	1E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Chromium VI	6E+00	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Manganese	6E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
		SW-07 - 26 days	Dermal													
				Arsenic	6E+00	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	3.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
				Manganese	4E+02	ug/L	8.8E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	2.8E-03	mg/kg-day	9.1E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
		SW-07 - 78 days	Dermal													
				Arsenic	6E+00	ug/L	3.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.7E-04
				Manganese	4E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
			Exp. Route Total								6E-08					3E-03
		Exposure Point Total									6E-08					3E-03
		SW-08 - 78 days	Dermal													
				Arsenic	5E+00	ug/L	2.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-08	7.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.6E-04
				Manganese	3E+02	ug/L	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									4E-08					2E-03
		SW-09 - 78 days	Dermal													
				Arsenic	3E+00	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-08	4.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.6E-04
				Manganese	6E+01	ug/L	3.4E-07	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.8E-03	mg/kg-day	3.6E-04
			Exp. Route Total								2E-08					5E-04
		Exposure Point Total									2E-08					5E-04

TABLE 3-7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-10 - 39 days	Ingestion	Arsenic	2E+00	ug/L	4.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Mercury	2E-01	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	3.0E-04	mg/kg-day	5.5E-05
			Exp. Route Total								7E-08					5E-04
			Dermal	Arsenic	2E+00	ug/L	1.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-08	4.9E-08	mg/kg-day	3.0E-04	mg/kg-day	1.6E-04
				Mercury	2E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	6.0E-09	mg/kg-day	2.1E-05	mg/kg-day	2.9E-04
			Exp. Route Total								3E-08					4E-04
		Exposure Point Total									1E-07					1E-03
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	6.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-08	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
				Chromium VI	1E+01	ug/L	5.5E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	7.5E-05	mg/kg-day	7.4E-04
				Manganese	6E+02	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	6.7E-04
				Mercury	6E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									1E-08					2E-03
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	2.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	1E+01	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	7.5E-05	mg/kg-day	2.2E-03
				Manganese	6E+02	ug/L	5.6E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	6E-02	ug/L	5.6E-11	mg/kg-day	N/A	N/A	N/A	5.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.7E-05
			Exp. Route Total								3E-08					5E-03
		Exposure Point Total									3E-08					5E-03
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	4.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.2E-09	4.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Chromium VI	6E+00	ug/L	3.7E-09	mg/kg-day	N/A	N/A	N/A	3.7E-08	mg/kg-day	7.5E-05	mg/kg-day	4.9E-04
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
			Exp. Route Total								6E-09					1E-03
		Exposure Point Total									6E-09					1E-03
		SW-06 - 78 days	Dermal													
				Arsenic	1E+01	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.2E-04
				Chromium VI	6E+00	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	6E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
			Exp. Route Total								2E-08					4E-03
		Exposure Point Total									2E-08					4E-03
		SW-07 - 26 days	Dermal													
				Arsenic	6E+00	ug/L	1.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-09	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.2E-05
				Manganese	4E+02	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	2.8E-03	mg/kg-day	4.6E-04
			Exp. Route Total								3E-09					5E-04
		Exposure Point Total									3E-09					5E-04
		SW-08 - 26 days	Dermal													
				Arsenic	5E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-09	1.3E-08	mg/kg-day	3.0E-04	mg/kg-day	4.4E-05
				Manganese	3E+02	ug/L	8.6E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	2.8E-03	mg/kg-day	3.1E-04
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04

TABLE 3-7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-09 - 26 days	Dermal	Arsenic	3E+00	ug/L	7.8E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-09	7.8E-09	mg/kg-day	3.0E-04	mg/kg-day	2.6E-05
				Manganese	6E+01	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.8E-03	mg/kg-day	5.9E-05
			Exp. Route Total								1E-09					9E-05
		Exposure Point Total									1E-09					9E-05
		SW-10 - 5 days	Ingestion	Arsenic	2E+00	ug/L	8.7E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	8.7E-09	mg/kg-day	3.0E-04	mg/kg-day	2.9E-05
				Mercury	2E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	3.0E-04	mg/kg-day	3.6E-06
			Exp. Route Total								1E-09					3E-05
			Dermal	Arsenic	2E+00	ug/L	3.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-10	3.1E-09	mg/kg-day	3.0E-04	mg/kg-day	1.0E-05
				Mercury	2E-01	ug/L	3.8E-11	mg/kg-day	N/A	N/A	N/A	3.8E-10	mg/kg-day	2.1E-05	mg/kg-day	1.8E-05
			Exp. Route Total								5E-10					3E-05
		Exposure Point Total									2E-09					6E-05
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	2.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-08	3.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Chromium VI	1E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.4E-03
				Manganese	6E+02	ug/L	7.4E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
				Mercury	6E-02	ug/L	7.4E-11	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								4E-08					8E-03
		Exposure Point Total									4E-08					8E-03
		SW-05 - 52 days	Dermal													
				Arsenic	2E+01	ug/L	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Chromium VI	1E+01	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	7.5E-05	mg/kg-day	6.8E-03
				Manganese	6E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	2.8E-03	mg/kg-day	6.2E-03
				Mercury	6E-02	ug/L	1.5E-10	mg/kg-day	N/A	N/A	N/A	1.7E-09	mg/kg-day	2.1E-05	mg/kg-day	8.2E-05
			Exp. Route Total								8E-08					2E-02
		Exposure Point Total									8E-08					2E-02
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	9.5E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Chromium VI	1E+01	ug/L	6.5E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Manganese	6E+02	ug/L	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.8E-03	mg/kg-day	9.3E-03
				Mercury	6E-02	ug/L	2.2E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		SW-05 - 104 days	Dermal													
				Arsenic	2E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.2E-03
				Chromium VI	1E+01	ug/L	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.5E-05	mg/kg-day	1.4E-02
				Manganese	6E+02	ug/L	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	2.8E-03	mg/kg-day	1.2E-02
				Mercury	6E-02	ug/L	3.0E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.4E-04
				Chromium VI	6E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	7.5E-05	mg/kg-day	2.2E-03
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-06 - 78 days	Dermal													
				Arsenic	1E+01	ug/L	4.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Chromium VI	6E+00	ug/L	4.3E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	7.5E-05	mg/kg-day	6.7E-03
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.2E-03
			Exp. Route Total								7E-08					2E-02
		Exposure Point Total									7E-08					2E-02
		SW-06 - 104 days	Dermal													
				Arsenic	1E+01	ug/L	6.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.8E-08	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Chromium VI	6E+00	ug/L	5.8E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	7.5E-05	mg/kg-day	9.0E-03
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		SW-07 - 26 days	Dermal													
				Arsenic	6E+00	ug/L	7.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Manganese	4E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	2.8E-03	mg/kg-day	2.1E-03
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									1E-08					2E-03
		SW-07 - 78 days	Dermal													
				Arsenic	6E+00	ug/L	2.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.5E-04
				Manganese	4E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.3E-03
			Exp. Route Total								3E-08					7E-03
		Exposure Point Total									3E-08					7E-03
		SW-08 - 78 days	Dermal													
				Arsenic	5E+00	ug/L	1.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.0E-04
				Manganese	3E+02	ug/L	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.2E-03
			Exp. Route Total								2E-08					5E-03
		Exposure Point Total									2E-08					5E-03
		SW-09 - 78 days	Dermal													
				Arsenic	3E+00	ug/L	9.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.6E-04
				Manganese	6E+01	ug/L	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.8E-03	mg/kg-day	8.1E-04
			Exp. Route Total								1E-08					1E-03
		Exposure Point Total									1E-08					1E-03

TABLE 3-7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-10 - 39 days	Ingestion	Arsenic	2E+00	ug/L	5.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-08	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Mercury	2E-01	ug/L	6.7E-09	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.6E-04
			Exp. Route Total								8E-08					2E-03
			Dermal	Arsenic	2E+00	ug/L	7.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Mercury	2E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	2.1E-05	mg/kg-day	4.9E-04
			Exp. Route Total								1E-08					8E-04
		Exposure Point Total									9E-08					3E-03
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
							Total of Receptor Risks Across All Media				N/A	Total of Receptor Hazards Across All Media				N/A

TABLE 3-7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.3E-04
				Chromium VI	1E+01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Manganese	6E+02	ug/L	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.5E-03
				Mercury	6E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.1E-05
			Exp. Route Total								7E-09					4E-03
		Exposure Point Total									7E-09					4E-03
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	4.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Chromium VI	1E+01	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	7.5E-05	mg/kg-day	5.1E-03
				Manganese	6E+02	ug/L	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
				Mercury	6E-02	ug/L	3.7E-11	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.1E-05	mg/kg-day	6.2E-05
			Exp. Route Total								2E-08					1E-02
		Exposure Point Total									2E-08					1E-02
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-09	9.5E-08	mg/kg-day	3.0E-04	mg/kg-day	3.2E-04
				Chromium VI	6E+00	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
			Exp. Route Total								4E-09					3E-03
		Exposure Point Total									4E-09					3E-03
		SW-06 - 78 days	Dermal													
				Arsenic	1E+01	ug/L	8.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-08	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.5E-04
				Chromium VI	6E+00	ug/L	7.2E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.4E-03
				Manganese	6E+02	ug/L	3.3E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.1E-03
			Exp. Route Total								1E-08					8E-03
		Exposure Point Total									1E-08					8E-03
		SW-07 - 26 days	Dermal													
				Arsenic	6E+00	ug/L	1.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-09	4.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Manganese	4E+02	ug/L	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.0E-03
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03
		SW-08 - 26 days	Dermal													
				Arsenic	5E+00	ug/L	8.6E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	3.0E-08	mg/kg-day	3.0E-04	mg/kg-day	1.0E-04
				Manganese	3E+02	ug/L	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.8E-03	mg/kg-day	7.0E-04
			Exp. Route Total								1E-09					8E-04
		Exposure Point Total									1E-09					8E-04

TABLE 3-7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Baseflow Surface Water (cont.)	SW-09 - 26 days	Dermal	Arsenic	3E+00	ug/L	5.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-10	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	6.0E-05
				Manganese	6E+01	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	2.8E-03	mg/kg-day	1.4E-04
			Exp. Route Total								8E-10					2E-04
		Exposure Point Total									8E-10					2E-04
		SW-10 - 5 days	Ingestion	Arsenic	2E+00	ug/L	1.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-09	4.1E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Mercury	2E-01	ug/L	1.4E-10	mg/kg-day	N/A	N/A	N/A	5.0E-09	mg/kg-day	3.0E-04	mg/kg-day	1.7E-05
			Exp. Route Total								2E-09					2E-04
			Dermal	Arsenic	2E+00	ug/L	1.5E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-10	5.4E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Mercury	2E-01	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	6.6E-10	mg/kg-day	2.1E-05	mg/kg-day	3.1E-05
			Exp. Route Total								2E-10					5E-05
		Exposure Point Total									2E-09					2E-04
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	8.6E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	6.0E-05	mg/kg-day	4.2E-04
				Arsenic	2E+01	ug/L	6.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.2E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
				Chromium VI	1E+01	ug/L	6.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	7.5E-05	mg/kg-day	2.6E-03
				Manganese	4E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.3E-03
				Mercury	9E-02	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.5E-10	mg/kg-day	2.1E-05	mg/kg-day	4.0E-05
			Exp. Route Total								9E-08					5E-03
		Exposure Point Total									9E-08					5E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	9.0E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	6.0E-05	mg/kg-day	4.4E-04
				Arsenic	2E+01	ug/L	7.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
				Chromium VI	2E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	7.5E-05	mg/kg-day	5.1E-03
				Lead												
				Manganese	4E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	5.1E-10	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.1E-05
			Exp. Route Total								1E-07					8E-03
		Exposure Point Total									1E-07					8E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	4.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
				Chromium VI	1E+01	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	ug/L	7.7E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.8E-03	mg/kg-day	8.1E-04
				Mercury	8E-02	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	7.5E-10	mg/kg-day	2.1E-05	mg/kg-day	3.6E-05
			Exp. Route Total								7E-08					4E-03
		Exposure Point Total									7E-08					4E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	6.0E-05	mg/kg-day	2.3E-04
				Arsenic	3E+01	ug/L	8.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.3E-04
				Chromium VI	5E+01	ug/L	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	7.5E-05	mg/kg-day	1.2E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	2.8E-03	mg/kg-day	2.1E-03
				Mercury	2E-01	ug/L	5.6E-10	mg/kg-day	N/A	N/A	N/A	1.6E-09	mg/kg-day	2.1E-05	mg/kg-day	7.7E-05
				Thallium	2E+00	ug/L	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	8.0E-05	mg/kg-day	2.1E-04
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02

TABLE 3-7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	6.0E-05	mg/kg-day	2.8E-04
				Arsenic	4E+00	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-08	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
			Exp. Route Total								2E-08					4E-04
		Exposure Point Total									2E-08					4E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	6.4E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.5E-09	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.2E-05
				Mercury	8E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	7.0E-10	mg/kg-day	2.1E-05	mg/kg-day	3.4E-05
			Exp. Route Total								1E-08					1E-04
		Exposure Point Total									1E-08					1E-04
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	6.3E-10	mg/kg-day	N/A	N/A	N/A	6.3E-09	mg/kg-day	6.0E-05	mg/kg-day	1.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	1E+01	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.4E-04
				Manganese	4E+02	ug/L	9.4E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
				Mercury	9E-02	ug/L	2.1E-11	mg/kg-day	N/A	N/A	N/A	2.1E-10	mg/kg-day	2.1E-05	mg/kg-day	1.0E-05
			Exp. Route Total								7E-09					1E-03
		Exposure Point Total									7E-09					1E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	6.6E-10	mg/kg-day	N/A	N/A	N/A	6.6E-09	mg/kg-day	6.0E-05	mg/kg-day	1.1E-04
				Arsenic	2E+01	ug/L	5.6E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-09	5.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.9E-04
				Chromium VI	2E+01	ug/L	9.5E-09	mg/kg-day	N/A	N/A	N/A	9.5E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-03
				Lead												
				Manganese	4E+02	ug/L	9.6E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	2.8E-03	mg/kg-day	3.4E-04
				Mercury	8E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								8E-09					2E-03
		Exposure Point Total									8E-09					2E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	3.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-09	3.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
				Chromium VI	1E+01	ug/L	4.5E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	7.5E-05	mg/kg-day	5.9E-04
				Lead												
				Manganese	2E+02	ug/L	5.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.8E-03	mg/kg-day	2.0E-04
				Mercury	8E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								5E-09					9E-04
		Exposure Point Total									5E-09					9E-04
		SW-08	Dermal													
				Antimony	1E+00	ug/L	3.4E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	6.0E-05	mg/kg-day	5.7E-05
				Arsenic	3E+01	ug/L	6.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-09	6.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.1E-04
				Chromium VI	5E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	3.0E-03
				Lead												
				Manganese	6E+02	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.2E-04
				Mercury	2E-01	ug/L	4.1E-11	mg/kg-day	N/A	N/A	N/A	4.1E-10	mg/kg-day	2.1E-05	mg/kg-day	1.9E-05
				Thallium	2E+00	ug/L	4.3E-10	mg/kg-day	N/A	N/A	N/A	4.3E-09	mg/kg-day	8.0E-05	mg/kg-day	5.4E-05
			Exp. Route Total								9E-09					4E-03
		Exposure Point Total									9E-09					4E-03

TABLE 3-7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	6.0E-05	mg/kg-day	6.9E-05
				Arsenic	4E+00	ug/L	9.0E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	9.0E-09	mg/kg-day	3.0E-04	mg/kg-day	3.0E-05
			Exp. Route Total								1E-09					1E-04
		Exposure Point Total									1E-09					1E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	4.6E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-10	4.6E-09	mg/kg-day	3.0E-04	mg/kg-day	1.5E-05
				Mercury	8E-02	ug/L	1.8E-11	mg/kg-day	N/A	N/A	N/A	1.8E-10	mg/kg-day	2.1E-05	mg/kg-day	8.4E-06
			Exp. Route Total								7E-10					2E-05
		Exposure Point Total									7E-10					2E-05
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.12.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	4.9E-09	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	6.0E-05	mg/kg-day	9.6E-04
				Arsenic	2E+01	ug/L	3.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.3E-08	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Chromium VI	1E+01	ug/L	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	7.5E-05	mg/kg-day	5.9E-03
				Manganese	4E+02	ug/L	7.4E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
				Mercury	9E-02	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	1.9E-09	mg/kg-day	2.1E-05	mg/kg-day	9.2E-05
			Exp. Route Total								5E-08					1E-02
		Exposure Point Total									5E-08					1E-02
		SW-06	Dermal													
				Antimony	3E+00	ug/L	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.0E-08	mg/kg-day	6.0E-05	mg/kg-day	1.0E-03
				Arsenic	2E+01	ug/L	4.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.6E-08	5.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
				Chromium VI	2E+01	ug/L	7.5E-08	mg/kg-day	N/A	N/A	N/A	8.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.2E-02
				Lead												
				Manganese	4E+02	ug/L	7.6E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.8E-03	mg/kg-day	3.2E-03
				Mercury	2E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								7E-08					2E-02
		Exposure Point Total									7E-08					2E-02
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.8E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.9E-04
				Chromium VI	1E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	7.5E-05	mg/kg-day	5.4E-03
				Lead												
				Manganese	2E+02	ug/L	4.4E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
				Mercury	8E-02	ug/L	1.5E-10	mg/kg-day	N/A	N/A	N/A	1.7E-09	mg/kg-day	2.1E-05	mg/kg-day	8.2E-05
			Exp. Route Total								4E-08					8E-03
		Exposure Point Total									4E-08					8E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	2.7E-09	mg/kg-day	N/A	N/A	N/A	3.1E-08	mg/kg-day	6.0E-05	mg/kg-day	5.2E-04
				Arsenic	3E+01	ug/L	4.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.3E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Chromium VI	5E+01	ug/L	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	2E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	3.7E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
				Thallium	2E+00	ug/L	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	8.0E-05	mg/kg-day	4.9E-04
			Exp. Route Total								7E-08					4E-02
		Exposure Point Total									7E-08					4E-02

TABLE 3-7.12.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	6.0E-05	mg/kg-day	6.3E-04
				Arsenic	4E+00	ug/L	7.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.7E-04
			Exp. Route Total								1E-08					9E-04
		Exposure Point Total									1E-08					9E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	3.6E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-09	4.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Mercury	8E-02	ug/L	1.4E-10	mg/kg-day	N/A	N/A	N/A	1.6E-09	mg/kg-day	2.1E-05	mg/kg-day	7.7E-05
			Exp. Route Total								5E-09					2E-04
		Exposure Point Total									5E-09					2E-04
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.12.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	6.0E-05	mg/kg-day	2.4E-04
				Arsenic	2E+01	ug/L	2.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.4E-04
				Chromium VI	1E+01	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	4E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.8E-03	mg/kg-day	7.7E-04
				Mercury	9E-02	ug/L	1.4E-11	mg/kg-day	N/A	N/A	N/A	4.8E-10	mg/kg-day	2.1E-05	mg/kg-day	2.3E-05
			Exp. Route Total								4E-09					3E-03
		Exposure Point Total									4E-09					3E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	4.3E-10	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	6.0E-05	mg/kg-day	2.5E-04
				Arsenic	2E+01	ug/L	3.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-09	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
				Chromium VI	2E+01	ug/L	6.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	2.9E-03
				Lead												
				Manganese	4E+02	ug/L	6.3E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.8E-03	mg/kg-day	7.9E-04
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.0E-05
			Exp. Route Total								5E-09					4E-03
		Exposure Point Total									5E-09					4E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	2.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-09	7.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Chromium VI	1E+01	ug/L	2.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	2E+02	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	2.8E-03	mg/kg-day	4.6E-04
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.0E-05
			Exp. Route Total								3E-09					2E-03
		Exposure Point Total									3E-09					2E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	2.2E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	6.0E-05	mg/kg-day	1.3E-04
				Arsenic	3E+01	ug/L	4.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-09	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.8E-04
				Chromium VI	5E+01	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	7.5E-05	mg/kg-day	6.8E-03
				Lead												
				Manganese	6E+02	ug/L	9.5E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	2E-01	ug/L	2.7E-11	mg/kg-day	N/A	N/A	N/A	9.3E-10	mg/kg-day	2.1E-05	mg/kg-day	4.4E-05
				Thallium	2E+00	ug/L	2.8E-10	mg/kg-day	N/A	N/A	N/A	9.9E-09	mg/kg-day	8.0E-05	mg/kg-day	1.2E-04
			Exp. Route Total								6E-09					9E-03
		Exposure Point Total									6E-09					9E-03

TABLE 3-7.12.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	2.7E-10	mg/kg-day	N/A	N/A	N/A	9.5E-09	mg/kg-day	6.0E-05	mg/kg-day	1.6E-04
				Arsenic	4E+00	ug/L	5.9E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.8E-10	2.1E-08	mg/kg-day	3.0E-04	mg/kg-day	6.9E-05
			Exp. Route Total								9E-10					2E-04
		Exposure Point Total									9E-10					2E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	3.0E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.5E-05
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.0E-10	mg/kg-day	2.1E-05	mg/kg-day	1.9E-05
			Exp. Route Total								5E-10					5E-05
		Exposure Point Total									5E-10					5E-05
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.13.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment Cores	SC05	Ingestion													
				Antimony	1E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	4.0E-04	mg/kg-day	3.9E-02
				Arsenic	9E+02	mg/kg	3.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-05	1.2E-03	mg/kg-day	5.9E-04	mg/kg-day	2.0E+00
				Cadmium	2E+01	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-03	mg/kg-day	3.0E-02
				Copper	2E+03	mg/kg	6.0E-05	mg/kg-day	N/A	N/A	N/A	2.1E-03	mg/kg-day	3.0E-02	mg/kg-day	7.0E-02
				Lead												
				Manganese	4E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.1E-04	mg/kg-day	7.0E-02	mg/kg-day	7.3E-03
				Mercury	2E+01	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-04	mg/kg-day	3.0E-01
				Vanadium	6E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.0E-03	mg/kg-day	7.6E-02
			Exp. Route Total								3E-05					3E+00
			Dermal													
				Arsenic	9E+02	mg/kg	3.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.0E-06	1.2E-04	mg/kg-day	3.0E-04	mg/kg-day	3.9E-01
				Cadmium	2E+01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								5E-06					4E-01
		Exposure Point Total									3E-05					3E+00
		SC06	Ingestion													
				Arsenic	2E+03	mg/kg	6.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-05	2.2E-03	mg/kg-day	5.9E-04	mg/kg-day	3.8E+00
				Cadmium	4E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	1.0E-03	mg/kg-day	5.7E-02
				Copper	1E+03	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.1E-02
				Lead												
				Manganese	2E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	7.0E-02	mg/kg-day	3.1E-02
				Mercury	8E+00	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Vanadium	6E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	1.0E-03	mg/kg-day	8.4E-02
				Zinc	4E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	5.5E-03	mg/kg-day	3.0E-01	mg/kg-day	1.8E-02
			Exp. Route Total								5E-05					4E+00
			Dermal													
				Arsenic	2E+03	mg/kg	6.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.4E-06	2.2E-04	mg/kg-day	3.0E-04	mg/kg-day	7.3E-01
				Cadmium	4E+01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.5E-05	mg/kg-day	7.5E-02
			Exp. Route Total								9E-06					8E-01
		Exposure Point Total									6E-05					5E+00

TABLE 3-7.13.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC07	Ingestion													
				Arsenic	4E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	5.2E-04	mg/kg-day	5.9E-04	mg/kg-day	8.8E-01
				Cadmium	2E+01	mg/kg	8.3E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Copper	8E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-02	mg/kg-day	3.6E-02
				Lead												
				Manganese	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-03	mg/kg-day	7.0E-02	mg/kg-day	4.3E-02
				Mercury	3E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-04	mg/kg-day	4.4E-02
				Vanadium	7E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	1.0E-03	mg/kg-day	8.7E-02
				Zinc	4E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	5.7E-03	mg/kg-day	3.0E-01	mg/kg-day	1.9E-02
			Exp. Route Total								1E-05					1E+00
			Dermal													
				Arsenic	4E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	5.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.7E-01
				Cadmium	2E+01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.8E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									1E-05					1E+00
		SC08	Ingestion													
				Arsenic	1E+03	mg/kg	4.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.6E-05	1.6E-03	mg/kg-day	5.9E-04	mg/kg-day	2.8E+00
				Cadmium	2E+01	mg/kg	8.4E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Copper	1E+03	mg/kg	5.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	6.1E-02
				Lead												
				Manganese	5E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	6.8E-04	mg/kg-day	7.0E-02	mg/kg-day	9.7E-03
				Mercury	1E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-04	mg/kg-day	1.8E-01
				Vanadium	7E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	1.0E-03	mg/kg-day	8.7E-02
				Zinc	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-03	mg/kg-day	3.0E-01	mg/kg-day	1.0E-02
			Exp. Route Total								4E-05					3E+00
			Dermal													
				Arsenic	1E+03	mg/kg	4.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-06	1.6E-04	mg/kg-day	3.0E-04	mg/kg-day	5.4E-01
				Cadmium	2E+01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								7E-06					6E-01
		Exposure Point Total									4E-05					4E+00
		SC09	Ingestion													
				Arsenic	9E+01	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.0E-01
				Mercury	1E+00	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-04	mg/kg-day	1.6E-02
			Exp. Route Total								3E-06					2E-01
			Dermal													
				Arsenic	9E+01	mg/kg	3.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-07	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	3.8E-02
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									3E-06					3E-01

TABLE 3-7.13.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC10	Ingestion													
				Arsenic	6E+01	mg/kg	2.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-06	7.7E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
			Exp. Route Total								2E-06					1E-01
			Dermal													
				Arsenic	6E+01	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-07	7.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.5E-02
			Exp. Route Total								3E-07					3E-02
		Exposure Point Total									2E-06					2E-01
		SC11	Ingestion													
				Arsenic	1E+02	mg/kg	4.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-06	1.4E-04	mg/kg-day	5.9E-04	mg/kg-day	2.4E-01
				Cadmium	7E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	1.0E-03	mg/kg-day	9.4E-03
				Copper	3E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.4E-02
				Lead												
				Manganese	6E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	8.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.1E-02
				Mercury	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	1.0E-04	mg/kg-day	2.8E-02
				Vanadium	7E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.1E-05	mg/kg-day	1.0E-03	mg/kg-day	9.1E-02
			Exp. Route Total								3E-06					4E-01
			Dermal													
				Arsenic	1E+02	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.7E-02
				Cadmium	7E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.2E-02
			Exp. Route Total								6E-07					6E-02
		Exposure Point Total									4E-06					5E-01
		SC12	Ingestion													
				Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-06	1.7E-04	mg/kg-day	5.9E-04	mg/kg-day	2.9E-01
				Cadmium	1E+01	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Copper	4E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.8E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	9E+02	mg/kg	3.4E-05	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	7.0E-02	mg/kg-day	1.7E-02
				Mercury	3E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-04	mg/kg-day	3.5E-02
				Vanadium	8E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
			Exp. Route Total								4E-06					5E-01
			Dermal													
				Arsenic	1E+02	mg/kg	4.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	1E+01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								7E-07					8E-02
		Exposure Point Total									4E-06					6E-01

TABLE 3-7.13.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC13	Ingestion													
				Arsenic	1E+02	mg/kg	4.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-06	1.5E-04	mg/kg-day	5.9E-04	mg/kg-day	2.6E-01
				Cadmium	1E+01	mg/kg	4.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Copper	5E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	6.0E-04	mg/kg-day	3.0E-02	mg/kg-day	2.0E-02
				Lead												
				Manganese	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	7.0E-02	mg/kg-day	6.5E-03
				Mercury	2E+00	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-04	mg/kg-day	2.7E-02
				Vanadium	8E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.0E-03	mg/kg-day	1.0E-01
				Zinc	3E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								3E-06					4E-01
			Dermal													
				Arsenic	1E+02	mg/kg	4.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.1E-02
				Cadmium	1E+01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								7E-07					7E-02
		Exposure Point Total									4E-06					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment Cores	SC05	Ingestion													
				Antimony	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	4.0E-04	mg/kg-day	1.9E-02
				Arsenic	5E+02	mg/kg	5.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	3.5E-04	mg/kg-day	5.9E-04	mg/kg-day	5.9E-01
				Cadmium	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Copper	1E+03	mg/kg	9.2E-06	mg/kg-day	N/A	N/A	N/A	6.4E-04	mg/kg-day	3.0E-02	mg/kg-day	2.1E-02
				Lead												
				Manganese	4E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.3E-03
				Mercury	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Vanadium	6E+01	mg/kg	5.4E-07	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-03	mg/kg-day	3.8E-02
			Exp. Route Total								4E-06					8E-01
			Dermal													
				Arsenic	5E+02	mg/kg	4.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-07	3.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+01	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								7E-07					1E-01
		Exposure Point Total									5E-06					1E+00
		SC06	Ingestion													
				Arsenic	9E+02	mg/kg	8.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-06	5.6E-04	mg/kg-day	5.9E-04	mg/kg-day	9.5E-01
				Cadmium	4E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-03	mg/kg-day	2.8E-02
				Copper	5E+02	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.1E-02
				Lead												
				Manganese	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.5E-02
				Mercury	5E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	1.0E-04	mg/kg-day	3.1E-02
				Vanadium	4E+01	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	4E+03	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	2.7E-03	mg/kg-day	3.0E-01	mg/kg-day	9.1E-03
			Exp. Route Total								6E-06					1E+00
			Dermal													
				Arsenic	9E+02	mg/kg	7.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	5.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Cadmium	4E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.5E-05	mg/kg-day	3.7E-02
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									7E-06					1E+00

TABLE 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC07	Ingestion													
				Arsenic	4E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.9E-06	2.6E-04	mg/kg-day	5.9E-04	mg/kg-day	4.4E-01
				Cadmium	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Copper	8E+02	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.8E-02
				Lead												
				Manganese	2E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-02	mg/kg-day	2.1E-02
				Mercury	3E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-04	mg/kg-day	2.2E-02
				Vanadium	7E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-03	mg/kg-day	4.3E-02
				Zinc	4E+03	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	2.8E-03	mg/kg-day	3.0E-01	mg/kg-day	9.4E-03
			Exp. Route Total								3E-06					6E-01
			Dermal													
				Arsenic	4E+02	mg/kg	3.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-07	2.6E-05	mg/kg-day	3.0E-04	mg/kg-day	8.6E-02
				Cadmium	2E+01	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								6E-07					1E-01
		Exposure Point Total									3E-06					7E-01
		SC08	Ingestion													
				Arsenic	4E+02	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-06	2.3E-04	mg/kg-day	5.9E-04	mg/kg-day	3.9E-01
				Cadmium	7E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-03	mg/kg-day	4.5E-03
				Copper	4E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-02	mg/kg-day	8.4E-03
				Lead												
				Manganese	5E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.8E-03
				Mercury	4E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-04	mg/kg-day	2.4E-02
				Vanadium	2E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.0E-03
			Exp. Route Total								3E-06					4E-01
			Dermal													
				Arsenic	4E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-07	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.6E-02
				Cadmium	7E+00	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	5.9E-03
			Exp. Route Total								5E-07					8E-02
		Exposure Point Total									3E-06					5E-01
		SC09	Ingestion													
				Arsenic	5E+01	mg/kg	4.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-07	3.1E-05	mg/kg-day	5.9E-04	mg/kg-day	5.3E-02
				Mercury	6E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	1.0E-04	mg/kg-day	3.7E-03
			Exp. Route Total								3E-07					6E-02
			Dermal													
				Arsenic	5E+01	mg/kg	4.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.6E-08	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
			Exp. Route Total								7E-08					1E-02
		Exposure Point Total									4E-07					7E-02

TABLE 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC10	Ingestion	Arsenic	6E+01	mg/kg	5.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	3.8E-05	mg/kg-day	5.9E-04	mg/kg-day	6.5E-02
			Exp. Route Total								4E-07					6E-02
			Dermal	Arsenic	6E+01	mg/kg	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	3.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
			Exp. Route Total								8E-08					1E-02
		Exposure Point Total									5E-07					8E-02
		SC11	Ingestion	Arsenic	1E+02	mg/kg	9.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.2E-07	6.5E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Cadmium	6E+00	mg/kg	5.5E-08	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	1.0E-03	mg/kg-day	3.8E-03
				Copper	3E+02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	3.0E-02	mg/kg-day	7.0E-03
				Lead												
				Manganese	6E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	5.7E-03
				Mercury	2E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Vanadium	7E+01	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
			Exp. Route Total								7E-07					2E-01
			Dermal	Arsenic	1E+02	mg/kg	9.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	6.5E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
				Cadmium	6E+00	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.1E-03
			Exp. Route Total								1E-07					3E-02
		Exposure Point Total									9E-07					2E-01
		SC12	Ingestion	Arsenic	1E+02	mg/kg	1.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.0E-07	7.3E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Cadmium	1E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	1.0E-03	mg/kg-day	6.7E-03
				Copper	4E+02	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.7E-03
				Lead												
				Manganese	9E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	7.0E-02	mg/kg-day	8.4E-03
				Mercury	3E+00	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Vanadium	8E+01	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	1.0E-03	mg/kg-day	5.4E-02
			Exp. Route Total								8E-07					2E-01
			Dermal	Arsenic	1E+02	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	7.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	1E+01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	2.5E-05	mg/kg-day	8.9E-03
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									1E-06					3E-01

TABLE 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment (cont.)	Sediment Cores (cont.)	SC13	Ingestion													
				Arsenic	1E+02	mg/kg	1.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.4E-07	7.6E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Cadmium	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	7.6E-06	mg/kg-day	1.0E-03	mg/kg-day	7.6E-03
				Copper	3E+02	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-02	mg/kg-day	7.2E-03
				Lead												
				Manganese	3E+02	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Mercury	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Vanadium	8E+01	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	1.0E-03	mg/kg-day	5.1E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-01	mg/kg-day	3.5E-03
			Exp. Route Total								8E-07					2E-01
			Dermal													
				Arsenic	1E+02	mg/kg	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	7.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.5E-02
				Cadmium	1E+01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								2E-07					4E-02
		Exposure Point Total									1E-06					2E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 3-8.1.RME

CALCULATION OF RADIATION CANCER RISKS

Reasonable Maximum Exposure

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe:	
Receptor Population:	
Receptor Age:	

Medium	Exposure Medium	Exposure Point	Exposure Route	Radionuclide of Potential Concern	EPC		Risk Calculation Approach	Cancer Risk Calculations				
					Value	Units		Intake/Activity		CSF		Cancer Risk
								Value	Units	Value	Units	
			Exp. Route Total									
				NOT APPLICABLE								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
			Exp. Route Total									
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												

Total of Receptor Risks Across All Media

TABLE 3-8.1.CT

CALCULATION OF RADIATION CANCER RISKS

Central Tendency

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe:	
Receptor Population:	
Receptor Age:	

Medium	Exposure Medium	Exposure Point	Exposure Route	Radionuclide of Potential Concern	EPC		Risk Calculation Approach	Cancer Risk Calculations				
					Value	Units		Intake/Activity		CSF		Cancer Risk
								Value	Units	Value	Units	
			Exp. Route Total									
				NOT APPLICABLE								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
			Exp. Route Total									
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												

Total of Receptor Risks Across All Media

TABLE 3-9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	- -	4E-09	- -	4E-09	Liver	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station NR											
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-04	- -	- -	8E-04
			Chemical Total	1E-05	- -	4E-06	- -	1E-05		2E-01	- -	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Soil	Surface Soil	Station NR											
			Arsenic	2E-05	- -	3E-06	- -	2E-05	Skin	3E-01	- -	5E-02	4E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-02	- -	- -	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-04	- -	- -	8E-04
			Chemical Total	2E-05	- -	3E-06	- -	2E-05		4E-01	- -	6E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								3E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 7E-01

Total Skin HI =	6E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	4E-04
Total Kidney HI =	4E-02
Total Blood HI =	2E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	5E-02
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.1.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NR											
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	9E-02	- -	6E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-05	- -	- -	4E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-04	- -	- -	8E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Soil	Surface Soil	Station NR											
			Arsenic	3E-06	- -	1E-06	- -	4E-06	Skin	2E-01	- -	5E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	2E-03	3E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	3E-06	- -	1E-06	- -	4E-06		2E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								7E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	4E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	2E-04
Total Kidney HI =	2E-02
Total Blood HI =	8E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.2.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	- -	4E-09	- -	4E-09	Liver	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	5E-08	- -	4E-08	- -	9E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	9E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	5E-09	- -	4E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-05	- -	4E-05	1E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	3E-06	- -	1E-06	- -	4E-06	Skin	6E-02	- -	2E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	1E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	7E-05	- -	- -	7E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	4E-06	- -	2E-06	- -	5E-06		8E-02	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					1E-01
	Exposure Medium Total							5E-06					1E-01
Medium Total								5E-06					1E-01
Receptor Total								6E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-04
Total Kidney HI =	1E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.2.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	7E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	6E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	7E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-05	- -	3E-05	4E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-07	- -	3E-07	- -	8E-07	Skin	2E-02	- -	2E-02	4E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-05	- -	- -	5E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	7E-04	8E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-05	- -	- -	2E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-04	- -	- -	4E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-04	- -	- -	2E-04
			Chemical Total	5E-07	- -	4E-07	- -	1E-06		3E-02	- -	2E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					5E-02
	Exposure Medium Total							1E-06					5E-02
Medium Total								1E-06					5E-02
Receptor Total								1E-06					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	4E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	4E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-05
Total Developmental HI =	N/A

TABLE 3-9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	- -	4E-09	- -	4E-09	Liver	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	9E-08	- -	- -	- -	9E-08	Liver	1E-04	- -	- -	1E-04
			Trichloroethene	2E-08	- -	- -	- -	2E-08	Liver	1E-03	- -	- -	1E-03
			Benzo(a)anthracene	1E-08	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	8E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-09	- -	2E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-09	- -	8E-09	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	8E-06	2E-05
			Aroclor 1260	3E-09	- -	3E-09	- -	6E-09	Immune System	7E-04	- -	5E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-01	- -	- -	4E-01
			Arsenic	3E-06	- -	1E-06	- -	5E-06	Skin	6E-02	- -	2E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	2E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-05	- -	- -	2E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-04	- -	- -	8E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-04	- -	- -	2E-04
			Chemical Total	4E-06	- -	1E-06	- -	5E-06		5E-01	- -	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media	5E-06
Using the MADEP slope factor for PCE, the risk for this receptor would change to	5E-06
Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	5E-06

Total Hazard Across All Media	5E-01
Total Skin HI =	8E-02
Total Nervous System HI =	6E-03
Total Immune System HI =	2E-03
Total Kidney HI =	2E-02
Total Blood HI =	4E-01
Total General Toxicity HI =	3E-04
Total Liver HI =	1E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.3.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	1E-08	- -	- -	- -	1E-08	Liver	7E-05	- -	- -	7E-05
			Trichloroethene	3E-09	- -	- -	- -	3E-09	Liver	6E-04	- -	- -	6E-04
			Benzo(a)anthracene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-09	- -	4E-09	- -	7E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-10	- -	5E-10	- -	8E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-06	- -	7E-06	1E-05
			Aroclor 1260	3E-10	- -	5E-10	- -	7E-10	Immune System	3E-04	- -	5E-04	9E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Arsenic	6E-07	- -	4E-07	- -	1E-06	Skin	3E-02	- -	2E-02	5E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	2E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-04	- -	- -	2E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-04	- -	- -	4E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-07	- -	4E-07	- -	1E-06		9E-02	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media	1E-06
Using the MADEP slope factor for PCE, the risk for this receptor would change to	1E-06
Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	1E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	1E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	1E-06

Total Hazard Across All Media	1E-01
Total Skin HI =	5E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	1E-03
Total Kidney HI =	1E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-04
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	- -	4E-09	- -	4E-09	Liver	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station WH	Trichloroethene	1E-09	- -	- -	- -	1E-09	Liver	8E-05	- -	- -	8E-05
			Benzo(a)anthracene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-07	- -	3E-07	- -	8E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-09	- -	3E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	1E-05	2E-05
			Aroclor 1260	7E-09	- -	6E-09	- -	1E-08	Immune System	1E-03	- -	1E-03	2E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Arsenic	9E-05	- -	3E-05	- -	1E-04	Skin	2E+00	- -	5E-01	2E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-04	- -	- -	6E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	1E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	9E-05	- -	3E-05	- -	1E-04		2E+00	- -	5E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					2E+00
	Exposure Medium Total							1E-04					2E+00
Medium Total								1E-04					2E+00
Receptor Total								1E-04					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	2E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-03
Total Kidney HI =	8E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.4.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WH	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	4E-05	- -	- -	4E-05
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	5E-10	- -	8E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-09	- -	6E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-06	- -	8E-06	1E-05
			Aroclor 1260	4E-10	- -	7E-10	- -	1E-09	Immune System	5E-04	- -	8E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	1E-05	- -	1E-05	- -	2E-05	Skin	8E-01	- -	5E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-02	- -	- -	7E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-04	- -	- -	1E-04
			Chemical Total	1E-05	- -	1E-05	- -	2E-05		9E-01	- -	5E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	1E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	1E-03
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.5.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	- -	4E-09	- -	4E-09	Liver	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station WG	Trichloroethene	1E-09	- -	- -	- -	1E-09	Liver	7E-05	- -	- -	7E-05
			Benzo(a)anthracene	6E-09	- -	5E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-08	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-10	- -	7E-10	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-09	- -	5E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-06	- -	3E-06	7E-06
			Aroclor 1260	1E-09	- -	1E-09	- -	2E-09	Immune System	3E-04	- -	2E-04	5E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Arsenic	1E-05	- -	4E-06	- -	2E-05	Skin	2E-01	- -	7E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-04	- -	- -	6E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	7E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	1E-05	- -	4E-06	- -	2E-05		3E-01	- -	8E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 4E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-04
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.5.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WG	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	3E-05	- -	- -	3E-05
			Benzo(a)anthracene	9E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	4E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-06	- -	3E-06	5E-06
			Aroclor 1260	1E-10	- -	2E-10	- -	3E-10	Immune System	1E-04	- -	2E-04	3E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	1E-01	- -	7E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	7E-03	8E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	3E-06

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	5E-04
Total Kidney HI =	3E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	5E-04	5E-04
			Arsenic	--	- -	9E-07	- -	9E-07	Skin	- -	- -	8E-03	8E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-03	5E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	8E-02	8E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-03	2E-03
			Chemical Total	--	- -	9E-07	- -	9E-07		- -	- -	1E-01	1E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					1E-01
	Exposure Medium Total							9E-07					1E-01
Medium Total								9E-07					1E-01
Sediment	Sediment	Station WS/WSS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	4E-05	- -	1E-05	- -	6E-05	Skin	7E-01	- -	2E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-03	- -	- -	4E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	5E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-04	- -	- -	6E-04
			Chemical Total	4E-05	- -	1E-05	- -	6E-05		1E+00	- -	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					1E+00
	Exposure Medium Total							6E-05					1E+00
Medium Total								6E-05					1E+00
Soil	Surface Soil	Station WS/WSS											
			Arsenic	3E-06	- -	7E-07	- -	4E-06	Skin	6E-02	- -	1E-02	7E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	2E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	3E-06	- -	7E-07	- -	4E-06		2E-01	- -	1E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								6E-05					2E-00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	8E-02
Total Immune System HI =	2E-03
Total Kidney HI =	2E-01
Total Blood HI =	9E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	5E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9.6.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	--	- -	2E-09	- -	2E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-02	3E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	6E-04	6E-04
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					4E-02
	Exposure Medium Total							1E-07					4E-02
Medium Total								1E-07					4E-02
Sediment	Sediment	Station WS/WSS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	5E-06	- -	4E-06	- -	8E-06	Skin	3E-01	- -	2E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	5E-06	- -	4E-06	- -	8E-06		4E-01	- -	2E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					6E-01
	Exposure Medium Total							8E-06					6E-01
Medium Total								8E-06					6E-01
Soil	Surface Soil	Station WS/WSS											
			Arsenic	2E-06	- -	2E-07	- -	2E-06	Skin	5E-02	- -	8E-03	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-06	- -	2E-07	- -	2E-06		1E-01	- -	9E-03	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								1E-05					8E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 8E-01

Total Skin HI =	5E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	6E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	4E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station TT-30											
			Arsenic	5E-05	- -	2E-05	- -	7E-05	Skin	9E-01	- -	3E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	8E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-03	- -	- -	1E-03
			Chemical Total	5E-05	- -	2E-05	- -	7E-05		1E+00	- -	3E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-05

Total Skin HI =	1E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-05
Total Kidney HI =	8E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.7.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-30											
			Arsenic	8E-06	- -	6E-06	- -	1E-05	Skin	4E-01	- -	3E-01	7E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	8E-03	9E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	5E-04	- -	- -	5E-04
			Chemical Total	8E-06	- -	6E-06	- -	1E-05		7E-01	- -	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	4E-05
Total Kidney HI =	4E-02
Total Blood HI =	5E-03
Total General Toxicity HI =	9E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-01											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	4E-02	6E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-02	- -	- -	6E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-01	- -	- -	2E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chemical Total	1E-05	- -	4E-06	- -	1E-05		6E-01	- -	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					7E-01
	Exposure Medium Total							1E-05					7E-01
Medium Total								1E-05					7E-01
Receptor Total								1E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 7E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	3E-01
Total Nervous System HI =	9E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.8.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-01											
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Arsenic	1E-06	- -	9E-07	- -	2E-06	Skin	7E-02	- -	5E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-04	- -	- -	6E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-04	- -	- -	7E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	1E-06	- -	9E-07	- -	2E-06		2E-01	- -	8E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					3E-01
	Exposure Medium Total							2E-06					3E-01
Medium Total								2E-06					3E-01
Receptor Total								2E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	1E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-02
Total General Toxicity HI =	9E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.9.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	7E-06	- -	3E-06	- -	1E-05	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-03	- -	- -	5E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	7E-06	- -	3E-06	- -	1E-05		2E-01	- -	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	9E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.9.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	9E-07	- -	7E-07	- -	2E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	7E-05	- -	- -	7E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	9E-07	- -	7E-07	- -	2E-06		9E-02	- -	5E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	8E-02
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	4E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.10.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-03											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	1E-04	- -	4E-05	- -	1E-04	Skin	2E+00	- -	6E-01	3E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	6E-02	8E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-03	- -	- -	4E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	1E-04	- -	4E-05	- -	1E-04		2E+00	- -	7E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					3E+00
	Exposure Medium Total							1E-04					3E+00
Medium Total								1E-04					3E+00
Receptor Total								1E-04					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	3E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	6E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.10.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-03											
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	1E-05	- -	9E-06	- -	2E-05	Skin	7E-01	- -	5E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	7E-04	- -	- -	7E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	4E-02	5E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chemical Total	1E-05	- -	9E-06	- -	2E-05		8E-01	- -	5E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.11.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-04											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	1E-05	- -	4E-05	Skin	6E-01	- -	2E-01	8E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-03	- -	- -	7E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	3E-05	- -	1E-05	- -	4E-05		1E+00	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					1E+00
	Exposure Medium Total							4E-05					1E+00
Medium Total								4E-05					1E+00
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

Total Skin HI =	8E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	8E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.11.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-04											
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	4E-06	- -	3E-06	- -	7E-06	Skin	2E-01	- -	1E-01	4E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Chemical Total	4E-06	- -	3E-06	- -	7E-06		3E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					5E-01
	Exposure Medium Total							7E-06					5E-01
Medium Total								7E-06					5E-01
Receptor Total								7E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-06

Total Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.12.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	2E-05	- -	4E-06	- -	2E-05	Skin	4E-01	- -	6E-02	4E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	3E-03	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-02	- -	- -	9E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	2E-05	- -	4E-06	- -	2E-05		6E-01	- -	7E-02	6E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					6E-01
	Exposure Medium Total							2E-05					6E-01
Medium Total								2E-05					6E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	4E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	9E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.12.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	1E-05	- -	9E-07	- -	1E-05	Skin	3E-01	- -	5E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-02	- -	- -	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-04	- -	- -	8E-04
			Chemical Total	1E-05	- -	9E-07	- -	1E-05		4E-01	- -	5E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.13.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-06											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	9E-06	- -	3E-05	Skin	5E-01	- -	1E-01	6E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	7E-02	1E-01
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	6E-04	- -	- -	6E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	4E-04	- -	- -	4E-04
			Chemical Total	3E-05	- -	9E-06	- -	3E-05		8E-01	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-05

Total Skin HI =	6E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.13.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-06											
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	3E-06	- -	2E-06	- -	5E-06	Skin	2E-01	- -	1E-01	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-04	- -	- -	5E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	5E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	3E-06	- -	2E-06	- -	5E-06		3E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-06

Total Skin HI =	3E-01
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	5E-04
Total Developmental HI =	N/A

TABLE 3-9.14.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station CB-07	Arsenic	9E-06	- -	3E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	8E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	9E-06	- -	3E-06	- -	1E-05		2E-01	- -	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	9E-05
Total Kidney HI =	6E-02
Total Blood HI =	1E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.14.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station CB-07	Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	9E-02	- -	6E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	5E-03	6E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI =	1E-01
Total Nervous System HI =	6E-03
Total Immune System HI =	4E-05
Total Kidney HI =	3E-02
Total Blood HI =	5E-04
Total General Toxicity HI =	4E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.15.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 16/TT-33	Benzo(a)anthracene	1E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-09	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	7E-06	2E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	1E-05	- -	4E-05	Skin	6E-01	- -	2E-01	8E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-03	- -	- -	1E-03
			Chemical Total	3E-05	- -	1E-05	- -	4E-05		7E-01	- -	2E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								4E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to 4E-05

Total Skin HI = 8E-01
Total Nervous System HI = 8E-02
Total Immune System HI = 3E-04
Total Kidney HI = 9E-02
Total Blood HI = 3E-02
Total General Toxicity HI = 3E-03
Total Liver HI = 7E-03
Total Gastrointestinal System HI = 1E-02
Total Cardiovascular HI = 1E-03
Total Developmental HI = N/A

TABLE 3-9.15.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 16/TT-33											
			Benzo(a)anthracene	7E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	3E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	7E-11	- -	1E-10	- -	2E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-10	- -	7E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-06	- -	2E-06	4E-06
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	1E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	6E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-05	- -	- -	6E-05
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI = 2E-01
Total Nervous System HI = 1E-02
Total Immune System HI = 4E-05
Total Kidney HI = 2E-02
Total Blood HI = 4E-03
Total General Toxicity HI = 3E-04
Total Liver HI = 2E-03
Total Gastrointestinal System HI = 2E-03
Total Cardiovascular HI = 2E-04
Total Developmental HI = N/A

TABLE 3-9.16.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 09	Benzo(a)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	6E-07	- -	5E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Arsenic	5E-06	- -	2E-06	- -	6E-06	Skin	8E-02	- -	3E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	7E-04	- -	- -	7E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	6E-05	- -	- -	6E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-04	- -	- -	7E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	6E-06	- -	3E-06	- -	8E-06		2E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-01
	Exposure Medium Total							8E-06					2E-01
Medium Total								8E-06					2E-01
Receptor Total								9E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 9E-06

Total Skin HI = 1E-01
Total Nervous System HI = 7E-02
Total Immune System HI = 3E-04
Total Kidney HI = 3E-02
Total Blood HI = 3E-02
Total General Toxicity HI = 7E-04
Total Liver HI = 7E-03
Total Gastrointestinal System HI = 1E-02
Total Cardiovascular HI = 7E-04
Total Developmental HI = N/A

TABLE 3-9.16.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 09	Benzo(a)anthracene	3E-09	- -	5E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-08	- -	6E-08	- -	9E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	9E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	5E-09	- -	9E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	3E-07	- -	2E-07	- -	4E-07	Skin	1E-02	- -	9E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	7E-04	9E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-04	- -	- -	9E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-04	- -	- -	2E-04
			Chemical Total	3E-07	- -	3E-07	- -	6E-07		2E-02	- -	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					3E-02
	Exposure Medium Total							6E-07					3E-02
Medium Total								6E-07					3E-02
Receptor Total								6E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-07

Total Skin HI = 2E-02
Total Nervous System HI = 4E-03
Total Immune System HI = 4E-05
Total Kidney HI = 5E-03
Total Blood HI = 5E-03
Total General Toxicity HI = 1E-04
Total Liver HI = 2E-03
Total Gastrointestinal System HI = 1E-03
Total Cardiovascular HI = 1E-04
Total Developmental HI = N/A

TABLE 3-9.17.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Soil	Surface Soil	Station DA											
			Arsenic	5E-05	- -	1E-05	- -	6E-05	Skin	9E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	1E-02	2E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-01	- -	- -	2E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-02	- -	- -	6E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	5E-05	- -	1E-05	- -	6E-05		1E+00	- -	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					2E+00
	Exposure Medium Total							6E-05					2E+00
Medium Total								6E-05					2E+00
Receptor Total								6E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	6E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	6E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to	6E-05

Total Skin HI =	1E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	6E-02
Total General Toxicity HI =	N/A
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.17.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Soil	Surface Soil	Station DA											
			Arsenic	3E-06	- -	1E-06	- -	4E-06	Skin	2E-01	- -	5E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-02	- -	- -	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	3E-06	- -	1E-06	- -	4E-06		2E-01	- -	5E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					3E-01
	Exposure Medium Total							4E-06					3E-01
Medium Total								4E-06					3E-01
Receptor Total								4E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	4E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	4E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	4E-06

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.18.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station AM											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Arsenic	5E-06	- -	2E-06	- -	7E-06	Skin	1E-01	- -	3E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	4E-03	6E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	5E-06	- -	2E-06	- -	7E-06		1E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					2E-01
	Exposure Medium Total							7E-06					2E-01
Medium Total								7E-06					2E-01
Receptor Total								8E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 8E-06

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-05
Total Kidney HI =	2E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	5E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.18.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station AM											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	9E-07	- -	6E-07	- -	2E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-04	- -	4E-03	5E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-05	- -	- -	5E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	9E-07	- -	6E-07	- -	2E-06		7E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.19.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	9E-04	9E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station KF											
			Arsenic	7E-06	- -	3E-06	- -	1E-05	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	3E-03	5E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	6E-04	- -	- -	6E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	7E-06	- -	3E-06	- -	1E-05		2E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Soil	Surface Soil	Station KF											
			Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	2E-01	- -	4E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	4E-03	7E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-02	- -	- -	6E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		4E-01	- -	4E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	4E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	4E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.19.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-04	4E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station KF											
			Arsenic	4E-07	- -	3E-07	- -	6E-07	Skin	2E-02	- -	1E-02	3E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	1E-03	1E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-04	- -	- -	9E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	4E-07	- -	3E-07	- -	6E-07		3E-02	- -	1E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Soil	Surface Soil	Station KF											
			Arsenic	6E-07	- -	2E-07	- -	9E-07	Skin	4E-02	- -	1E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-04	- -	- -	9E-04
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	6E-07	- -	2E-07	- -	9E-07		6E-02	- -	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					7E-02
	Exposure Medium Total							9E-07					7E-02
Medium Total								9E-07					7E-02
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Blood HI =	6E-04
Total General Toxicity HI =	1E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.20.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	9E-04	9E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station 08											
			Benzo(a)anthracene	9E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-08	- -	2E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	4E-06	- -	1E-06	- -	5E-06	Skin	7E-02	- -	2E-02	9E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	6E-06	- -	3E-06	- -	9E-06		2E-01	- -	2E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					2E-01
	Exposure Medium Total							9E-06					2E-01
Medium Total								9E-06					2E-01
Receptor Total								9E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	9E-02
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.20.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 08											
		(Lower Reach 2)	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-04	4E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station 08											
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-08	- -	7E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	9E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	- -	4E-09	- -	7E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	1E-07	- -	1E-07	- -	2E-07	Skin	8E-03	- -	5E-03	1E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-05	- -	- -	6E-05
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-04	- -	- -	6E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-04	- -	- -	5E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-07	- -	2E-07	- -	4E-07		2E-02	- -	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					2E-02
	Exposure Medium Total							4E-07					2E-02
Medium Total								4E-07					2E-02
Receptor Total								4E-07					3E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	1E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-04
Total Cardiovascular HI =	6E-05
Total Developmental HI =	N/A

TABLE 3-9.21.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station 07/DP	Trichloroethene	2E-09	- -	- -	- -	2E-09	Liver	1E-04	- -	- -	1E-04
			Benzo(a)anthracene	7E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-06	- -	6E-06	- -	1E-05	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-06	- -	1E-06	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	5E-07	- -	4E-07	- -	9E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	4E-04	8E-04
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	5E-03	- -	4E-03	8E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-05	- -	1E-05	- -	3E-05		4E-01	- -	8E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					5E-01
	Exposure Medium Total							3E-05					5E-01
Medium Total								3E-05					5E-01
Soil	Surface Soil	Station 07/DP	Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	2E-01	- -	4E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-02	- -	- -	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-02	- -	- -	9E-02
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		5E-01	- -	4E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI =	5E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.21.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station 07/DP	Trichloroethene	8E-11	- -	- -	- -	8E-11	Liver	2E-05	- -	- -	2E-05
			Benzo(a)anthracene	4E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	7E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	4E-08	- -	7E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	8E-05	- -	1E-04	2E-04
			Aroclor 1260	6E-10	- -	1E-09	- -	2E-09	Immune System	8E-04	- -	1E-03	2E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	6E-07	- -	4E-07	- -	1E-06	Skin	3E-02	- -	2E-02	5E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-05	- -	- -	4E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-06	- -	1E-06	- -	3E-06		7E-02	- -	3E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					9E-02
	Exposure Medium Total							3E-06					9E-02
Medium Total								3E-06					9E-02
Soil	Surface Soil	Station 07/DP	Arsenic	6E-07	- -	2E-07	- -	9E-07	Skin	4E-02	- -	1E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-04	- -	- -	8E-04
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	6E-07	- -	2E-07	- -	9E-07		8E-02	- -	1E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					9E-02
	Exposure Medium Total							9E-07					9E-02
Medium Total								9E-07					9E-02
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	3E-06

Total Skin HI =	1E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-03
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	2E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.22.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station LP											
			Antimony	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Arsenic	2E-05	- -	7E-06	- -	3E-05	Skin	4E-01	- -	1E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	9E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Chemical Total	2E-05	- -	7E-06	- -	3E-05		5E-01	- -	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Receptor Total								3E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	5E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	7E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.22.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station LP											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	1E-06	- -	8E-07	- -	2E-06	Skin	6E-02	- -	4E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	3E-03	4E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-06	- -	8E-07	- -	2E-06		8E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	1E-01
Total Nervous System HI =	4E-03
Total Immune System HI =	7E-05
Total Kidney HI =	1E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.23.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						N/A					4E-03
	Exposure Medium Total							N/A					4E-03
Medium Total								N/A					4E-03
Sediment	Sediment	Station AS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	5E-06	- -	2E-06	- -	7E-06	Skin	1E-01	- -	3E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	7E-04	- -	- -	7E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	1E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chemical Total	5E-06	- -	2E-06	- -	7E-06		2E-01	- -	5E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					2E-01
	Exposure Medium Total							7E-06					2E-01
Medium Total								7E-06					2E-01
Receptor Total								7E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-04
Total Kidney HI =	6E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.23.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station AS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	8E-07	- -	6E-07	- -	1E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	8E-07	- -	6E-07	- -	1E-06		9E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	7E-05
Total Kidney HI =	4E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.24.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-03	5E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-03	7E-03
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Receptor Total								N/A					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 1E-02

Total Skin HI =	N/A
Total Nervous System HI =	7E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.24.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	8E-04	8E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Receptor Total								N/A					2E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 2E-03

Total Skin HI =	N/A
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	8E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.25.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	5E-05	5E-05
			Tetrachloroethene	--	- -	9E-07	- -	9E-07	Liver	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	9E-04	9E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	9E-07	- -	9E-07		- -	- -	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-06	- -	3E-06	- -	6E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-04	- -	1E-04	3E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	3E-06	- -	1E-06	- -	5E-06	Skin	6E-02	- -	2E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	9E-04	- -	- -	9E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	7E-06	- -	5E-06	- -	1E-05		2E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Receptor Total								1E-05					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 1E-05

Total Hazard Across All Media: 2E-01

Total Skin HI =	8E-02
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	9E-04
Total Cardiovascular HI =	9E-04
Total Developmental HI =	N/A

TABLE 3-9.25.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05											
		(Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	1E-05	1E-05
			Tetrachloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-04	2E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	6E-08	- -	6E-08		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	Station 05											
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-08	- -	4E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-10	- -	3E-10	- -	5E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	8E-06	- -	1E-05	2E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	6E-08	- -	4E-08	- -	1E-07	Skin	3E-03	- -	2E-03	6E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-05	- -	2E-04	3E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-06	- -	- -	5E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-04	- -	- -	2E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-04	- -	- -	2E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-04	- -	- -	1E-04
			Chemical Total	9E-08	- -	9E-08	- -	2E-07		1E-02	- -	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-07

Total Skin HI =	6E-03
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.26.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	7E-04
Total Nervous System HI =	5E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.26.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.27.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Sediment	Sediment	Station 03	Benzo(a)anthracene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-09	- -	7E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	7E-05	- -	5E-05	1E-04
			Aroclor 1260	4E-08	- -	3E-08	- -	7E-08	Immune System	8E-03	- -	6E-03	1E-02
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	1E-05	- -	4E-06	- -	2E-05	Skin	2E-01	- -	7E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-03	- -	- -	8E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Chemical Total	1E-05	- -	6E-06	- -	2E-05		3E-01	- -	9E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 4E-01

Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-02
Total Kidney HI =	1E-01
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.27.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Sediment	Sediment	Station 03	Benzo(a)anthracene	4E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-08	- -	5E-08	- -	8E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-09	- -	7E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-10	- -	4E-10	- -	6E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	7E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Aroclor 1260	5E-10	- -	8E-10	- -	1E-09	Immune System	6E-04	- -	9E-04	2E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	2E-07	- -	2E-07	- -	4E-07	Skin	1E-02	- -	9E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	2E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-04	- -	- -	6E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	3E-07	- -	3E-07	- -	5E-07		2E-02	- -	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Receptor Total								5E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 4E-02

Total Skin HI =	2E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	2E-03
Total Kidney HI =	8E-03
Total Blood HI =	9E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.28.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	7E-04
Total Nervous System HI =	5E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.28.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.29.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	3E-07	- -	6E-08	- -	3E-07	Skin	4E-03	- -	5E-04	4E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	2E-04	- -	2E-03	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	1E-03	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	5E-05	- -	9E-05	1E-04
			Chemical Total	3E-07	- -	6E-08	- -	3E-07		4E-03	- -	4E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-07					8E-03
	Exposure Medium Total							3E-07					8E-03
Medium Total								3E-07					8E-03
Sediment	Sediment	Station 01											
			Benzo(a)anthracene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-09	- -	2E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-05	- -	2E-05	6E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	8E-07	- -	3E-07	- -	1E-06	Skin	1E-02	- -	5E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	5E-04	8E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-04	- -	- -	8E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	1E-06	- -	6E-07	- -	2E-06		5E-02	- -	5E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-02
	Exposure Medium Total							2E-06					5E-02
Medium Total								2E-06					5E-02
Receptor Total								2E-06					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	1E-04
Total Kidney HI =	2E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.29.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	5E-09	- -	1E-09	- -	7E-09	Skin	2E-04	- -	3E-05	3E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	1E-05	- -	1E-04	1E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-05	- -	8E-05	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-06	- -	6E-06	9E-06
			Chemical Total	5E-09	- -	1E-09	- -	7E-09		3E-04	- -	2E-04	5E-04
			Radionuclide Total										
		Exposure Point Total						7E-09					5E-04
	Exposure Medium Total							7E-09					5E-04
Medium Total								7E-09					5E-04
Sediment	Sediment	Station 01											
			Benzo(a)anthracene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	3E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-08	- -	3E-08	- -	8E-08	Skin	2E-03	- -	2E-03	4E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-05	- -	- -	4E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-06	- -	- -	1E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-05	- -	- -	9E-05
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-04	- -	- -	3E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-08	- -	6E-08	- -	1E-07		7E-03	- -	2E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					9E-03
	Exposure Medium Total							1E-07					9E-03
Medium Total								1E-07					9E-03
Receptor Total								1E-07					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 1E-02

Total Skin HI =	4E-03
Total Nervous System HI =	4E-04
Total Immune System HI =	9E-06
Total Kidney HI =	3E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	9E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-04
Total Cardiovascular HI =	4E-05
Total Developmental HI =	N/A

TABLE 3-9.30.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	7E-08	- -	- -	- -	7E-08	Immune System	4E-04	- -	- -	4E-04
			4,4'-DDE	2E-07	- -	- -	- -	2E-07	Developmental	6E-03	- -	- -	6E-03
			4,4'-DDT	4E-08	- -	- -	- -	4E-08	Liver	6E-04	- -	- -	6E-04
			Aldrin	2E-07	- -	- -	- -	2E-07	Liver	1E-03	- -	- -	1E-03
			alpha-Chlordane	8E-08	- -	- -	- -	8E-08	Liver	1E-03	- -	- -	1E-03
			Aroclor-1254	2E-06	- -	- -	- -	2E-06	Immune System	1E-01	- -	- -	1E-01
			Aroclor-1260	5E-06	- -	- -	- -	5E-06	Immune System	3E-01	- -	- -	3E-01
			delta-BHC	N/A	- -	- -	- -	N/A	Liver/Kidney	2E-04	- -	- -	2E-04
			Dieldrin	1E-06	- -	- -	- -	1E-06	Liver	5E-03	- -	- -	5E-03
			Heptachlor epoxide	3E-07	- -	- -	- -	3E-07	Liver	7E-03	- -	- -	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	9E-06	- -	- -	- -	9E-06		9E-01	- -	- -	9E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					9E-01
	Exposure Medium Total							9E-06					9E-01
Medium Total								9E-06					9E-01
Receptor Total								9E-06					9E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 9E-01

Total Skin HI =	N/A
Total Nervous System HI =	4E-01
Total Immune System HI =	4E-01
Total Kidney HI =	2E-04
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	6E-03

TABLE 3-9.30.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	8E-09	- -	- -	- -	8E-09	Immune System	1E-04	- -	- -	1E-04
			4,4'-DDE	3E-08	- -	- -	- -	3E-08	Developmental	2E-03	- -	- -	2E-03
			4,4'-DDT	5E-09	- -	- -	- -	5E-09	Liver	2E-04	- -	- -	2E-04
			Aldrin	3E-08	- -	- -	- -	3E-08	Liver	4E-04	- -	- -	4E-04
			alpha-Chlordane	1E-08	- -	- -	- -	1E-08	Liver	5E-04	- -	- -	5E-04
			Aroclor-1254	1E-07	- -	- -	- -	1E-07	Immune System	4E-02	- -	- -	4E-02
			Aroclor-1260	3E-07	- -	- -	- -	3E-07	Immune System	1E-01	- -	- -	1E-01
			delta-BHC	N/A	- -	- -	- -	N/A	Liver/Kidney	7E-05	- -	- -	7E-05
			Dieldrin	2E-07	- -	- -	- -	2E-07	Liver	2E-03	- -	- -	2E-03
			Heptachlor epoxide	4E-08	- -	- -	- -	4E-08	Liver	3E-03	- -	- -	3E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	7E-07	- -	- -	- -	7E-07		3E-01	- -	- -	3E-01
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-01
	Exposure Medium Total							7E-07					3E-01
Medium Total								7E-07					3E-01
Receptor Total								7E-07					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 3E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	2E-01
Total Kidney HI =	7E-05
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03

TABLE 3-9.31.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-07	- -	- -	- -	2E-07	Immune System	8E-04	- -	- -	8E-04
			4,4'-DDE	1E-06	- -	- -	- -	1E-06	Developmental	3E-02	- -	- -	3E-02
			4,4'-DDT	1E-07	- -	- -	- -	1E-07	Liver	2E-03	- -	- -	2E-03
			Aldrin	4E-07	- -	- -	- -	4E-07	Liver	2E-03	- -	- -	2E-03
			alpha-Chlordane	4E-08	- -	- -	- -	4E-08	Liver	5E-04	- -	- -	5E-04
			Aroclor-1254	7E-06	- -	- -	- -	7E-06	Immune System	4E-01	- -	- -	4E-01
			Aroclor-1260	2E-05	- -	- -	- -	2E-05	Immune System	1E+00	- -	- -	1E+00
			Dieldrin	1E-06	- -	- -	- -	1E-06	Liver	3E-03	- -	- -	3E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-01	- -	- -	3E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	3E-05	- -	- -	- -	3E-05		2E+00	- -	- -	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	N/A
Total Nervous System HI =	3E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	3E-02

TABLE 3-9.31.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-08	- -	- -	- -	2E-08	Immune System	3E-04	- -	- -	3E-04
			4,4'-DDE	1E-07	- -	- -	- -	1E-07	Developmental	1E-02	- -	- -	1E-02
			4,4'-DDT	1E-08	- -	- -	- -	1E-08	Liver	7E-04	- -	- -	7E-04
			Aldrin	4E-08	- -	- -	- -	4E-08	Liver	7E-04	- -	- -	7E-04
			alpha-Chlordane	4E-09	- -	- -	- -	4E-09	Liver	2E-04	- -	- -	2E-04
			Aroclor-1254	4E-07	- -	- -	- -	4E-07	Immune System	2E-01	- -	- -	2E-01
			Aroclor-1260	9E-07	- -	- -	- -	9E-07	Immune System	4E-01	- -	- -	4E-01
			Dieldrin	1E-07	- -	- -	- -	1E-07	Liver	1E-03	- -	- -	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	2E-06	- -	- -	- -	2E-06		7E-01	- -	- -	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					7E-01
	Exposure Medium Total							2E-06					7E-01
Medium Total								2E-06					7E-01
Receptor Total								2E-06					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 7E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	6E-01
Total Kidney HI =	N/A
Total Blood HI =	8E-03
Total General Toxicity HI =	N/A
Total Liver HI =	8E-03
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	1E-02

TABLE 3-9.32.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-07	- -	- -	- -	2E-07	Immune System	1E-03	- -	- -	1E-03
			4,4'-DDE	8E-07	- -	- -	- -	8E-07	Developmental	2E-02	- -	- -	2E-02
			4,4'-DDT	7E-08	- -	- -	- -	7E-08	Liver	1E-03	- -	- -	1E-03
			Aldrin	4E-07	- -	- -	- -	4E-07	Liver	2E-03	- -	- -	2E-03
			alpha-Chlordane	1E-07	- -	- -	- -	1E-07	Liver	2E-03	- -	- -	2E-03
			Aroclor-1248	6E-07	- -	- -	- -	6E-07	Immune System	4E-02	- -	- -	4E-02
			Aroclor-1254	1E-05	- -	- -	- -	1E-05	Immune System	7E-01	- -	- -	7E-01
			Aroclor-1260	6E-06	- -	- -	- -	6E-06	Immune System	4E-01	- -	- -	4E-01
			Dieldrin	2E-06	- -	- -	- -	2E-06	Liver	5E-03	- -	- -	5E-03
			Heptachlor epoxide	2E-07	- -	- -	- -	2E-07	Liver	4E-03	- -	- -	4E-03
			Arsenic	1E-05	- -	- -	- -	1E-05	Skin	5E-02	- -	- -	5E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	3E-05	- -	- -	- -	3E-05		1E+00	- -	- -	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-02
Total Nervous System HI =	2E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-02

TABLE 3-9.32.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-08	- -	- -	- -	2E-08	Immune System	4E-04	- -	- -	4E-04
			4,4'-DDE	9E-08	- -	- -	- -	9E-08	Developmental	8E-03	- -	- -	8E-03
			4,4'-DDT	8E-09	- -	- -	- -	8E-09	Liver	4E-04	- -	- -	4E-04
			Aldrin	4E-08	- -	- -	- -	4E-08	Liver	7E-04	- -	- -	7E-04
			alpha-Chlordane	1E-08	- -	- -	- -	1E-08	Liver	7E-04	- -	- -	7E-04
			Aroclor-1248	4E-08	- -	- -	- -	4E-08	Immune System	2E-02	- -	- -	2E-02
			Aroclor-1254	6E-07	- -	- -	- -	6E-07	Immune System	3E-01	- -	- -	3E-01
			Aroclor-1260	4E-07	- -	- -	- -	4E-07	Immune System	2E-01	- -	- -	2E-01
			Dieldrin	2E-07	- -	- -	- -	2E-07	Liver	2E-03	- -	- -	2E-03
			Heptachlor epoxide	2E-08	- -	- -	- -	2E-08	Liver	2E-03	- -	- -	2E-03
			Arsenic	1E-06	- -	- -	- -	1E-06	Skin	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	2E-06	- -	- -	- -	2E-06		5E-01	- -	- -	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-01
	Exposure Medium Total							2E-06					5E-01
Medium Total								2E-06					5E-01
Receptor Total								2E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-02
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-01
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	8E-03

TABLE 3-9.33.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	- -	7E-09	- -	7E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-02	4E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	6E-03	6E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	4E-07	- -	4E-07		- -	- -	6E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					6E-02
	Exposure Medium Total							4E-07					6E-02
Medium Total								4E-07					6E-02
Sediment	Sediment	Station NR											
			Arsenic	2E-05	- -	7E-06	- -	3E-05	Skin	3E-01	- -	1E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-04	- -	- -	7E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	2E-05	- -	7E-06	- -	3E-05		4E-01	- -	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Soil	Surface Soil	Station NR											
			Arsenic	3E-05	- -	7E-06	- -	4E-05	Skin	6E-01	- -	1E-01	7E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	7E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	5E-02	- -	- -	5E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	3E-05	- -	7E-06	- -	4E-05		8E-01	- -	1E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								7E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	1E+00
Total Nervous System HI =	8E-02
Total Immune System HI =	8E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	8E-04
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.33.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NR											
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	9E-02	- -	6E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-05	- -	- -	4E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-04	- -	- -	8E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Soil	Surface Soil	Station NR											
			Arsenic	3E-06	- -	1E-06	- -	4E-06	Skin	2E-01	- -	5E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	2E-03	3E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	3E-06	- -	1E-06	- -	4E-06		2E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								7E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	4E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	2E-04
Total Kidney HI =	2E-02
Total Blood HI =	8E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.34.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	- -	7E-09	- -	7E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-02	4E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	6E-03	6E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	4E-07	- -	4E-07		- -	- -	6E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					6E-02
	Exposure Medium Total							4E-07					6E-02
Medium Total								4E-07					6E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	9E-08	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	8E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-09	- -	8E-09	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-04	- -	9E-05	2E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Arsenic	7E-06	- -	2E-06	- -	9E-06	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-04	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chemical Total	8E-06	- -	3E-06	- -	1E-05		2E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	8E-04
Total Kidney HI =	2E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	8E-04
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	4E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.34.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	7E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	6E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	7E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-05	- -	3E-05	4E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-07	- -	3E-07	- -	8E-07	Skin	2E-02	- -	2E-02	4E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-05	- -	- -	5E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	7E-04	8E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-05	- -	- -	2E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-04	- -	- -	4E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-04	- -	- -	2E-04
			Chemical Total	5E-07	- -	4E-07	- -	1E-06		3E-02	- -	2E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					5E-02
	Exposure Medium Total							1E-06					5E-02
Medium Total								1E-06					5E-02
Receptor Total								1E-06					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	4E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	4E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-05
Total Developmental HI =	N/A

TABLE 3-9.35.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	3E-07	- -	- -	- -	3E-07	Liver	4E-04	- -	- -	4E-04
			Trichloroethene	5E-08	- -	- -	- -	5E-08	Liver	3E-03	- -	- -	3E-03
			Benzo(a)anthracene	4E-08	- -	3E-08	- -	7E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	7E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	2E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-05	- -	3E-05	6E-05
			Aroclor 1260	1E-08	- -	9E-09	- -	2E-08	Immune System	2E-03	- -	2E-03	4E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E+00	- -	- -	1E+00
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	6E-05	- -	- -	6E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	1E-05	- -	4E-06	- -	2E-05		1E+00	- -	7E-02	2E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					2E+00
	Exposure Medium Total							2E-05					2E+00
Medium Total								2E-05					2E+00
Receptor Total								2E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media	2E-05
Using the MADEP slope factor for PCE, the risk for this receptor would change to	2E-05
Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to	2E-05

Total Hazard Across All Media	2E+00
Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	5E-03
Total Kidney HI =	7E-02
Total Blood HI =	1E+00
Total General Toxicity HI =	9E-04
Total Liver HI =	4E-03
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.35.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	1E-08	- -	- -	- -	1E-08	Liver	7E-05	- -	- -	7E-05
			Trichloroethene	3E-09	- -	- -	- -	3E-09	Liver	6E-04	- -	- -	6E-04
			Benzo(a)anthracene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-09	- -	4E-09	- -	7E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-10	- -	5E-10	- -	8E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-06	- -	7E-06	1E-05
			Aroclor 1260	3E-10	- -	5E-10	- -	7E-10	Immune System	3E-04	- -	5E-04	9E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Arsenic	6E-07	- -	4E-07	- -	1E-06	Skin	3E-02	- -	2E-02	5E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	2E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-04	- -	- -	2E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-04	- -	- -	4E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-07	- -	4E-07	- -	1E-06		9E-02	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Using the MADEP slope factor for PCE, the risk for this receptor would change to	1E-06
Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	1E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	1E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	1E-06

Total Skin HI =	5E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	1E-03
Total Kidney HI =	1E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-04
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.36.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 13/TT-27 (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station 13/TT-27	Trichloroethene	3E-09	- -	- -	- -	3E-09	Liver	2E-04	- -	- -	2E-04
			Benzo(a)anthracene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-06	- -	1E-06	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-07	- -	3E-07	- -	6E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-08	- -	2E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-07	- -	9E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-04	- -	9E-05	2E-04
			Aroclor 1254	2E-08	- -	N/A	- -	2E-08	Immune System	3E-03	- -	3E-03	6E-03
			Aroclor 1260	1E-07	- -	1E-07	- -	2E-07	Immune System	2E-02	- -	2E-02	4E-02
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-01	- -	- -	2E-01
			Arsenic	5E-04	- -	2E-04	- -	7E-04	Skin	9E+00	- -	3E+00	1E+01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-03	- -	- -	5E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-01	- -	- -	3E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	7E-02	- -	- -	7E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	5E-04	- -	2E-04	- -	7E-04		1E+01	- -	3E+00	1E+01
			Radionuclide Total										
		Exposure Point Total						7E-04					1E+01
	Exposure Medium Total							7E-04					1E+01
Medium Total								7E-04					1E+01
Receptor Total								7E-04					1E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-04

Total Hazard Across All Media: 1E+01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-04

Total Skin HI =	1E+01
Total Nervous System HI =	3E-01
Total Immune System HI =	5E-02
Total Kidney HI =	2E-01
Total Blood HI =	3E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	6E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.36.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 13/TT-27 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 13/TT-27	Trichloroethene	8E-11	- -	- -	- -	8E-11	Liver	2E-05	- -	- -	2E-05
			Benzo(a)anthracene	9E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	3E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-09	- -	2E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-05	- -	3E-05	5E-05
			Aroclor 1254	1E-10	- -	3E-10	- -	4E-10	Immune System	2E-04	- -	3E-04	5E-04
			Aroclor 1260	2E-09	- -	3E-09	- -	4E-09	Immune System	2E-03	- -	3E-03	5E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	3E-05	- -	2E-05	- -	5E-05	Skin	1E+00	- -	1E+00	2E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	3E-05	- -	2E-05	- -	5E-05		2E+00	- -	1E+00	3E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					3E+00
	Exposure Medium Total							5E-05					3E+00
Medium Total								5E-05					3E+00
Receptor Total								5E-05					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI =	2E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	6E-03
Total Kidney HI =	5E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	5E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.37.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WH	Trichloroethene	4E-09	- -	- -	- -	4E-09	Liver	3E-04	- -	- -	3E-04
			Benzo(a)anthracene	7E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-09	- -	8E-09	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	3E-05	7E-05
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	4E-03	- -	3E-03	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Arsenic	3E-04	- -	9E-05	- -	4E-04	Skin	5E+00	- -	2E+00	6E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	3E-02	5E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-04	- -	- -	7E-04
			Chemical Total	3E-04	- -	1E-04	- -	4E-04		5E+00	- -	2E+00	7E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					7E+00
	Exposure Medium Total							4E-04					7E+00
Medium Total								4E-04					7E+00
Receptor Total								4E-04					7E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-04

Total Hazard Across All Media: 7E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-04

Total Skin HI =	6E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	4E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.37.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WH	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	4E-05	- -	- -	4E-05
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	5E-10	- -	8E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-09	- -	6E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-06	- -	8E-06	1E-05
			Aroclor 1260	4E-10	- -	7E-10	- -	1E-09	Immune System	5E-04	- -	8E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	1E-05	- -	1E-05	- -	2E-05	Skin	8E-01	- -	5E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-02	- -	- -	7E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-04	- -	- -	1E-04
			Chemical Total	1E-05	- -	1E-05	- -	2E-05		9E-01	- -	5E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	1E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	1E-03
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.38.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-1 (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station NT-1	Trichloroethene	4E-09	- -	- -	- -	4E-09	Liver	3E-04	- -	- -	3E-04
			Benzo(a)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	9E-07	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-08	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	3E-05	7E-05
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	4E-03	- -	3E-03	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-02	- -	- -	5E-02
			Arsenic	3E-04	- -	1E-04	- -	5E-04	Skin	6E+00	- -	2E+00	8E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-02	- -	- -	7E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-01	- -	- -	2E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-04	- -	- -	9E-04
			Chemical Total	3E-04	- -	1E-04	- -	5E-04		6E+00	- -	2E+00	9E+00
			Radionuclide Total										
		Exposure Point Total						5E-04					9E+00
	Exposure Medium Total							5E-04					9E+00
Medium Total								5E-04					9E+00
Receptor Total								5E-04					9E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-04

Total Hazard Across All Media: 9E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-04

Total Skin HI =	8E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	3E-01
Total General Toxicity HI =	4E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.38.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-1 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-1	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	4E-05	- -	- -	4E-05
			Benzo(a)anthracene	3E-09	- -	6E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	6E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	4E-10	- -	6E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	3E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-06	- -	5E-06	9E-06
			Aroclor 1260	3E-10	- -	5E-10	- -	7E-10	Immune System	3E-04	- -	5E-04	9E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	2E-05	- -	1E-05	- -	3E-05	Skin	1E+00	- -	7E-01	2E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	9E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	2E-05	- -	1E-05	- -	3E-05		1E+00	- -	7E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-05

Total Skin HI =	2E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.39.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-2 (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station NT-2	Trichloroethene	4E-09	- -	- -	- -	4E-09	Liver	3E-04	- -	- -	3E-04
			Benzo(a)anthracene	5E-08	- -	4E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-09	- -	8E-09	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	3E-05	7E-05
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	4E-03	- -	3E-03	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-02	- -	- -	5E-02
			Arsenic	2E-04	- -	9E-05	- -	3E-04	Skin	4E+00	- -	1E+00	6E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	8E-02	- -	- -	8E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-04	- -	9E-05	- -	3E-04		5E+00	- -	1E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						3E-04					6E+00
	Exposure Medium Total							3E-04					6E+00
Medium Total								3E-04					6E+00
Receptor Total								3E-04					6E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 6E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-04

Total Skin HI =	6E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.39.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-2 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-2	Trichloroethene	1E-10	- -	- -	- -	1E-10	Liver	3E-05	- -	- -	3E-05
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-08	- -	4E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	8E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	5E-10	- -	8E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	- -	3E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	9E-06	2E-05
			Aroclor 1260	3E-10	- -	6E-10	- -	9E-10	Immune System	4E-04	- -	7E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	1E-05	- -	9E-06	- -	2E-05	Skin	7E-01	- -	5E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	7E-03	8E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-05	- -	9E-06	- -	2E-05		8E-01	- -	5E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	1E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.40.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-3 (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station NT-3	Trichloroethene	4E-09	- -	- -	- -	4E-09	Liver	3E-04	- -	- -	3E-04
			Benzo(a)anthracene	7E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-09	- -	8E-09	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	3E-05	7E-05
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	4E-03	- -	3E-03	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-02	- -	- -	5E-02
			Arsenic	7E-05	- -	2E-05	- -	9E-05	Skin	1E+00	- -	4E-01	2E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-02	- -	- -	7E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	7E-05	- -	3E-05	- -	9E-05		2E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						9E-05					2E+00
	Exposure Medium Total							9E-05					2E+00
Medium Total								9E-05					2E+00
Receptor Total								1E-04					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	2E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.40.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-3 (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-3	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	4E-05	- -	- -	4E-05
			Benzo(a)anthracene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-10	- -	5E-10	- -	8E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-06	- -	6E-06	1E-05
			Aroclor 1260	3E-10	- -	6E-10	- -	9E-10	Immune System	4E-04	- -	6E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	4E-06	- -	3E-06	- -	6E-06	Skin	2E-01	- -	1E-01	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	7E-03	9E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chemical Total	4E-06	- -	3E-06	- -	6E-06		3E-01	- -	1E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					4E-01
	Exposure Medium Total							6E-06					4E-01
Medium Total								6E-06					4E-01
Receptor Total								6E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 4E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	6E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	6E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	6E-06

Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.41.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WG	Trichloroethene	3E-09	- -	- -	- -	3E-09	Liver	2E-04	- -	- -	2E-04
			Benzo(a)anthracene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-08	- -	3E-08	- -	7E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-09	- -	2E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	8E-06	2E-05
			Aroclor 1260	4E-09	- -	3E-09	- -	7E-09	Immune System	8E-04	- -	6E-04	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Arsenic	4E-05	- -	1E-05	- -	5E-05	Skin	6E-01	- -	2E-01	8E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chemical Total	4E-05	- -	1E-05	- -	5E-05		9E-01	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					1E+00
	Exposure Medium Total							5E-05					1E+00
Medium Total								5E-05					1E+00
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI =	8E-01
Total Nervous System HI =	7E-02
Total Immune System HI =	3E-03
Total Kidney HI =	2E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	6E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.41.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WG	Trichloroethene	2E-10	- -	- -	- -	2E-10	Liver	3E-05	- -	- -	3E-05
			Benzo(a)anthracene	9E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	4E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-06	- -	3E-06	5E-06
			Aroclor 1260	1E-10	- -	2E-10	- -	3E-10	Immune System	1E-04	- -	2E-04	3E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	1E-01	- -	7E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	7E-03	8E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	5E-04
Total Kidney HI =	3E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.42.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WW (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WW											
			Benzo(b)fluoranthene	4E-08	- -	3E-08	- -	8E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-01	- -	- -	2E-01
			Arsenic	7E-06	- -	3E-06	- -	1E-05	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-02	- -	- -	3E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Chemical Total	7E-06	- -	3E-06	- -	1E-05		6E-01	- -	7E-02	7E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					7E-01
	Exposure Medium Total							1E-05					7E-01
Medium Total								1E-05					7E-01
Receptor Total								1E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 7E-01

Total Skin HI =	2E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-03
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	2E-02
Total Liver HI =	4E-04
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	3E-02
Total Developmental HI =	N/A

TABLE 3-9.42.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WW (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WW											
			Benzo(b)fluoranthene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	4E-10	- -	7E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-07	- -	2E-07	- -	5E-07	Skin	2E-02	- -	1E-02	3E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-03	- -	- -	5E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-03	- -	- -	2E-03
			Chemical Total	3E-07	- -	2E-07	- -	5E-07		8E-02	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						5E-07					1E-01
	Exposure Medium Total							5E-07					1E-01
Medium Total								5E-07					1E-01
Receptor Total								5E-07					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 1E-01

Total Skin HI =	3E-02
Total Nervous System HI =	6E-03
Total Immune System HI =	2E-04
Total Kidney HI =	3E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.43.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station JY (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	4E-04	4E-04
			Arsenic	--	- -	7E-07	- -	7E-07	Skin	- -	- -	6E-03	6E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-02	6E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station JY											
			Aroclor 1254	5E-07	- -	N/A	- -	5E-07	Immune System	1E-01	- -	8E-02	2E-01
			Aroclor 1260	5E-07	- -	5E-07	- -	1E-06	Immune System	1E-01	- -	8E-02	2E-01
			Antimony	N/A	- -	- -	- -	N/A	Blood	7E-02	- -	- -	7E-02
			Arsenic	4E-05	- -	1E-05	- -	5E-05	Skin	7E-01	- -	2E-01	9E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-03	- -	- -	4E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	5E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-03	- -	- -	5E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	7E-02	- -	- -	7E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-04	- -	- -	7E-04
			Chemical Total	4E-05	- -	1E-05	- -	5E-05		1E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	9E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	4E-01
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	6E-03
Total Liver HI =	4E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9.43.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station JY (Reach 1)	Heptachlor epoxide	--	- -	8E-10	- -	8E-10	Liver	- -	- -	9E-05	9E-05
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station JY											
			Aroclor 1254	1E-08	- -	2E-08	- -	4E-08	Immune System	2E-02	- -	3E-02	4E-02
			Aroclor 1260	1E-08	- -	2E-08	- -	4E-08	Immune System	2E-02	- -	3E-02	4E-02
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	2E-06	- -	1E-06	- -	4E-06	Skin	1E-01	- -	8E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-04	- -	- -	6E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-04	- -	- -	1E-04
			Chemical Total	2E-06	- -	2E-06	- -	4E-06		2E-01	- -	1E-01	3E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					3E-01
	Exposure Medium Total							4E-06					3E-01
Medium Total								4E-06					3E-01
Receptor Total								4E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	9E-02
Total Kidney HI =	4E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.44.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	--	- -	1E-08	- -	1E-08	Liver	- -	- -	5E-04	5E-04
			Arsenic	--	- -	9E-07	- -	9E-07	Skin	- -	- -	8E-03	8E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-03	5E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	8E-02	8E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-03	2E-03
			Chemical Total	--	- -	9E-07	- -	9E-07		- -	- -	1E-01	1E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					1E-01
	Exposure Medium Total							9E-07					1E-01
Medium Total								9E-07					1E-01
Sediment	Sediment	Station WS/WSS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	4E-05	- -	1E-05	- -	6E-05	Skin	7E-01	- -	2E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-03	- -	- -	4E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	5E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-04	- -	- -	6E-04
			Chemical Total	4E-05	- -	1E-05	- -	6E-05		1E+00	- -	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					1E+00
	Exposure Medium Total							6E-05					1E+00
Medium Total								6E-05					1E+00
Soil	Surface Soil	Station WS/WSS											
			Arsenic	3E-06	- -	7E-07	- -	4E-06	Skin	6E-02	- -	1E-02	7E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	2E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	3E-06	- -	7E-07	- -	4E-06		2E-01	- -	1E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								6E-05					2E-00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	8E-02
Total Immune System HI =	2E-03
Total Kidney HI =	2E-01
Total Blood HI =	9E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	5E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9.44.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	--	- -	2E-09	- -	2E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-02	3E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	6E-04	6E-04
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					4E-02
	Exposure Medium Total							1E-07					4E-02
Medium Total								1E-07					4E-02
Sediment	Sediment	Station WS/WSS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	5E-06	- -	4E-06	- -	8E-06	Skin	3E-01	- -	2E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	5E-06	- -	4E-06	- -	8E-06		4E-01	- -	2E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					6E-01
	Exposure Medium Total							8E-06					6E-01
Medium Total								8E-06					6E-01
Soil	Surface Soil	Station WS/WSS											
			Arsenic	2E-06	- -	2E-07	- -	2E-06	Skin	5E-02	- -	8E-03	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-06	- -	2E-07	- -	2E-06		1E-01	- -	9E-03	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								1E-05					8E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 8E-01

Total Skin HI =	5E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	6E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	4E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.45.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station TT-30											
			Arsenic	5E-05	- -	2E-05	- -	7E-05	Skin	9E-01	- -	3E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	8E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-03	- -	- -	1E-03
			Chemical Total	5E-05	- -	2E-05	- -	7E-05		1E+00	- -	3E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-05

Total Skin HI =	1E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-05
Total Kidney HI =	8E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.45.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-30											
			Arsenic	8E-06	- -	6E-06	- -	1E-05	Skin	4E-01	- -	3E-01	7E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	8E-03	9E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-04	- -	- -	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	5E-04	- -	- -	5E-04
			Chemical Total	8E-06	- -	6E-06	- -	1E-05		7E-01	- -	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	4E-05
Total Kidney HI =	4E-02
Total Blood HI =	5E-03
Total General Toxicity HI =	9E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.46.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-31 (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station TT-31	Arsenic	4E-06	- -	2E-06	- -	6E-06	Skin	7E-02	- -	2E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-03	- -	- -	3E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	4E-06	- -	2E-06	- -	6E-06		2E-01	- -	4E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					3E-01
	Exposure Medium Total							6E-06					3E-01
Medium Total								6E-06					3E-01
Receptor Total								6E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-06

Total Skin HI =	1E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	3E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-03
Total Developmental HI =	N/A

TABLE 3-9.46.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-31 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-31	Arsenic	1E-07	- -	9E-08	- -	2E-07	Skin	7E-03	- -	4E-03	1E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	4E-03	5E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-05	- -	- -	3E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-04	- -	- -	9E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	1E-07	- -	9E-08	- -	2E-07		3E-02	- -	9E-03	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Receptor Total								2E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-07

Total Skin HI =	1E-02
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	2E-02
Total Blood HI =	4E-04
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.47.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-01											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	4E-02	6E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-02	- -	- -	6E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-01	- -	- -	2E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chemical Total	1E-05	- -	4E-06	- -	1E-05		6E-01	- -	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					7E-01
	Exposure Medium Total							1E-05					7E-01
Medium Total								1E-05					7E-01
Receptor Total								1E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 7E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	3E-01
Total Nervous System HI =	9E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.47.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-01											
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Arsenic	1E-06	- -	9E-07	- -	2E-06	Skin	7E-02	- -	5E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-04	- -	- -	6E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-04	- -	- -	7E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	1E-06	- -	9E-07	- -	2E-06		2E-01	- -	8E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					3E-01
	Exposure Medium Total							2E-06					3E-01
Medium Total								2E-06					3E-01
Receptor Total								2E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	1E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-02
Total General Toxicity HI =	9E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.48.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	7E-06	- -	3E-06	- -	1E-05	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-03	- -	- -	5E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	7E-06	- -	3E-06	- -	1E-05		2E-01	- -	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to 1E-05

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	9E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.48.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	9E-07	- -	7E-07	- -	2E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	7E-05	- -	- -	7E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	9E-07	- -	7E-07	- -	2E-06		9E-02	- -	5E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	8E-02
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	4E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.49.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-03											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	1E-04	- -	4E-05	- -	1E-04	Skin	2E+00	- -	6E-01	3E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	6E-02	8E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-03	- -	- -	4E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	1E-04	- -	4E-05	- -	1E-04		2E+00	- -	7E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					3E+00
	Exposure Medium Total							1E-04					3E+00
Medium Total								1E-04					3E+00
Receptor Total								1E-04					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	3E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	6E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.49.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-03											
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	1E-05	- -	9E-06	- -	2E-05	Skin	7E-01	- -	5E-01	1E+00
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	7E-04	- -	- -	7E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	4E-02	5E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chemical Total	1E-05	- -	9E-06	- -	2E-05		8E-01	- -	5E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.50.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-04											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	1E-05	- -	4E-05	Skin	6E-01	- -	2E-01	8E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-03	- -	- -	7E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	3E-05	- -	1E-05	- -	4E-05		1E+00	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					1E+00
	Exposure Medium Total							4E-05					1E+00
Medium Total								4E-05					1E+00
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

Total Skin HI =	8E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	8E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.50.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-04											
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	4E-06	- -	3E-06	- -	7E-06	Skin	2E-01	- -	1E-01	4E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Chemical Total	4E-06	- -	3E-06	- -	7E-06		3E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					5E-01
	Exposure Medium Total							7E-06					5E-01
Medium Total								7E-06					5E-01
Receptor Total								7E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-06

Total Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.51.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	2E-05	- -	4E-06	- -	2E-05	Skin	4E-01	- -	6E-02	4E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	3E-03	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-02	- -	- -	9E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	2E-05	- -	4E-06	- -	2E-05		6E-01	- -	7E-02	6E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					6E-01
	Exposure Medium Total							2E-05					6E-01
Medium Total								2E-05					6E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	4E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	9E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.51.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	1E-05	- -	9E-07	- -	1E-05	Skin	3E-01	- -	5E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-02	- -	- -	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-04	- -	- -	8E-04
			Chemical Total	1E-05	- -	9E-07	- -	1E-05		4E-01	- -	5E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.52.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	- -	3E-07	- -	3E-07	Liver	- -	- -	9E-03	9E-03
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-02	2E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-07	- -	6E-07		- -	- -	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-06											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	9E-06	- -	3E-05	Skin	5E-01	- -	1E-01	6E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	7E-02	1E-01
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	6E-04	- -	- -	6E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	4E-04	- -	- -	4E-04
			Chemical Total	3E-05	- -	9E-06	- -	3E-05		8E-01	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-05

Total Skin HI =	6E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.52.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	- -	4E-08	- -	4E-08	Liver	- -	- -	5E-03	5E-03
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-06											
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	3E-06	- -	2E-06	- -	5E-06	Skin	2E-01	- -	1E-01	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	5E-04	- -	- -	5E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	5E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	3E-06	- -	2E-06	- -	5E-06		3E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-06

Total Skin HI =	3E-01
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	5E-04
Total Developmental HI =	N/A

TABLE 3-9.53.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station CB-07	Arsenic	9E-06	- -	3E-06	- -	1E-05	Skin	2E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	8E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	9E-06	- -	3E-06	- -	1E-05		2E-01	- -	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	9E-05
Total Kidney HI =	6E-02
Total Blood HI =	1E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.53.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station CB-07	Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	9E-02	- -	6E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	5E-03	6E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI =	1E-01
Total Nervous System HI =	6E-03
Total Immune System HI =	4E-05
Total Kidney HI =	3E-02
Total Blood HI =	5E-04
Total General Toxicity HI =	4E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.54.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 16/TT-33	Benzo(a)anthracene	1E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-09	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	7E-06	2E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	3E-05	- -	1E-05	- -	4E-05	Skin	6E-01	- -	2E-01	8E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	2E-02	3E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-03	- -	- -	1E-03
			Chemical Total	3E-05	- -	1E-05	- -	4E-05		7E-01	- -	2E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								4E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

Total Skin HI = 8E-01
Total Nervous System HI = 8E-02
Total Immune System HI = 3E-04
Total Kidney HI = 9E-02
Total Blood HI = 3E-02
Total General Toxicity HI = 3E-03
Total Liver HI = 7E-03
Total Gastrointestinal System HI = 1E-02
Total Cardiovascular HI = 1E-03
Total Developmental HI = N/A

TABLE 3-9.54.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 16/TT-33											
			Benzo(a)anthracene	7E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	3E-09	- -	4E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	7E-11	- -	1E-10	- -	2E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-10	- -	7E-10	- -	1E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-06	- -	2E-06	4E-06
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	2E-06	- -	1E-06	- -	3E-06	Skin	1E-01	- -	6E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	6E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-05	- -	- -	9E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-05	- -	- -	6E-05
			Chemical Total	2E-06	- -	1E-06	- -	3E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	2E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.55.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 09	Benzo(a)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	6E-07	- -	5E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-04	- -	1E-04	2E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Arsenic	5E-06	- -	2E-06	- -	6E-06	Skin	8E-02	- -	3E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	7E-04	- -	- -	7E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	6E-05	- -	- -	6E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	7E-04	- -	- -	7E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	6E-06	- -	3E-06	- -	8E-06		2E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-01
	Exposure Medium Total							8E-06					2E-01
Medium Total								8E-06					2E-01
Receptor Total								9E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 9E-06

Total Skin HI = 1E-01
Total Nervous System HI = 7E-02
Total Immune System HI = 3E-04
Total Kidney HI = 3E-02
Total Blood HI = 3E-02
Total General Toxicity HI = 1E-03
Total Liver HI = 7E-03
Total Gastrointestinal System HI = 1E-02
Total Cardiovascular HI = 7E-04
Total Developmental HI = N/A

TABLE 3-9.55.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 09	Benzo(a)anthracene	3E-09	- -	5E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-08	- -	6E-08	- -	9E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	9E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	5E-09	- -	9E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	3E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-06	- -	5E-06	9E-06
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	3E-07	- -	2E-07	- -	4E-07	Skin	1E-02	- -	9E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	7E-04	9E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-04	- -	- -	9E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-04	- -	- -	2E-04
			Chemical Total	3E-07	- -	3E-07	- -	6E-07		2E-02	- -	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					3E-02
	Exposure Medium Total							6E-07					3E-02
Medium Total								6E-07					3E-02
Receptor Total								6E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-07

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	4E-05
Total Kidney HI =	5E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.56.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	- -	2E-07	- -	2E-07	Liver	- -	- -	7E-03	7E-03
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-07	- -	5E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Soil	Surface Soil	Station DA											
			Arsenic	5E-05	- -	1E-05	- -	6E-05	Skin	9E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	1E-02	2E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-01	- -	- -	2E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-02	- -	- -	6E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	5E-05	- -	1E-05	- -	6E-05		1E+00	- -	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					2E+00
	Exposure Medium Total							6E-05					2E+00
Medium Total								6E-05					2E+00
Receptor Total								6E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	6E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	6E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to	6E-05

Total Skin HI =	1E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	6E-02
Total General Toxicity HI =	N/A
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.56.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Soil	Surface Soil	Station DA											
			Arsenic	3E-06	- -	1E-06	- -	4E-06	Skin	2E-01	- -	5E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-02	- -	- -	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Chemical Total	3E-06	- -	1E-06	- -	4E-06		2E-01	- -	5E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					3E-01
	Exposure Medium Total							4E-06					3E-01
Medium Total								4E-06					3E-01
Receptor Total								4E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	4E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	4E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to	4E-06

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.57.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	Station AM											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Arsenic	5E-06	- -	2E-06	- -	7E-06	Skin	1E-01	- -	3E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	4E-03	6E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	5E-06	- -	2E-06	- -	7E-06		1E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					2E-01
	Exposure Medium Total							7E-06					2E-01
Medium Total								7E-06					2E-01
Receptor Total								8E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 8E-06

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-05
Total Kidney HI =	2E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	5E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.57.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	- -	1E-08	- -	1E-08	Liver	- -	- -	2E-03	2E-03
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-05	6E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station AM											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	9E-07	- -	6E-07	- -	2E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-04	- -	- -	2E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-04	- -	4E-03	5E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-05	- -	- -	5E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	9E-07	- -	6E-07	- -	2E-06		7E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.58.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	9E-04	9E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station KF											
			Arsenic	7E-06	- -	3E-06	- -	1E-05	Skin	1E-01	- -	4E-02	2E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	3E-03	5E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	6E-04	- -	- -	6E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	7E-06	- -	3E-06	- -	1E-05		2E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Soil	Surface Soil	Station KF											
			Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	2E-01	- -	4E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	4E-03	7E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	6E-02	- -	- -	6E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		4E-01	- -	4E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	4E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	4E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.58.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-04	4E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station KF	Arsenic	4E-07	- -	3E-07	- -	6E-07	Skin	2E-02	- -	1E-02	3E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	1E-03	1E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-04	- -	- -	9E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	4E-07	- -	3E-07	- -	6E-07		3E-02	- -	1E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Soil	Surface Soil	Station KF	Arsenic	6E-07	- -	2E-07	- -	9E-07	Skin	4E-02	- -	1E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-04	- -	- -	9E-04
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	6E-07	- -	2E-07	- -	9E-07		6E-02	- -	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					7E-02
	Exposure Medium Total							9E-07					7E-02
Medium Total								9E-07					7E-02
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Blood HI =	6E-04
Total General Toxicity HI =	1E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.59.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	9E-04	9E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station 08											
			Benzo(a)anthracene	9E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-08	- -	2E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-08	- -	7E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	3E-05	8E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	4E-06	- -	1E-06	- -	5E-06	Skin	7E-02	- -	2E-02	9E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-04	- -	- -	4E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	6E-06	- -	3E-06	- -	9E-06		2E-01	- -	2E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					2E-01
	Exposure Medium Total							9E-06					2E-01
Medium Total								9E-06					2E-01
Receptor Total								9E-06					2E-01

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	9E-02
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.59.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-04	4E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station 08											
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	9E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-08	- -	7E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	9E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	9E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	- -	4E-09	- -	7E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	1E-07	- -	1E-07	- -	2E-07	Skin	8E-03	- -	5E-03	1E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	6E-05	- -	- -	6E-05
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-04	- -	- -	6E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-04	- -	- -	5E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-07	- -	2E-07	- -	4E-07		2E-02	- -	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					2E-02
	Exposure Medium Total							4E-07					2E-02
Medium Total								4E-07					2E-02
Receptor Total								4E-07					3E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	1E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-04
Total Cardiovascular HI =	6E-05
Total Developmental HI =	N/A

TABLE 3-9.60.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station 07/DP	Trichloroethene	2E-09	- -	- -	- -	2E-09	Liver	1E-04	- -	- -	1E-04
			Benzo(a)anthracene	7E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-06	- -	6E-06	- -	1E-05	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-06	- -	1E-06	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	5E-07	- -	4E-07	- -	9E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	4E-04	8E-04
			Aroclor 1260	2E-08	- -	2E-08	- -	4E-08	Immune System	5E-03	- -	4E-03	8E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	6E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-05	- -	1E-05	- -	3E-05		4E-01	- -	8E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					5E-01
	Exposure Medium Total							3E-05					5E-01
Medium Total								3E-05					5E-01
Soil	Surface Soil	Station 07/DP	Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	2E-01	- -	4E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-02	- -	- -	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-02	- -	- -	9E-02
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		5E-01	- -	4E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI =	5E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.60.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station 07/DP	Trichloroethene	8E-11	- -	- -	- -	8E-11	Liver	2E-05	- -	- -	2E-05
			Benzo(a)anthracene	4E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	6E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	7E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	- -	4E-08	- -	7E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	8E-05	- -	1E-04	2E-04
			Aroclor 1260	6E-10	- -	1E-09	- -	2E-09	Immune System	8E-04	- -	1E-03	2E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	6E-07	- -	4E-07	- -	1E-06	Skin	3E-02	- -	2E-02	5E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	4E-05	- -	- -	4E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-06	- -	1E-06	- -	3E-06		7E-02	- -	3E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					9E-02
	Exposure Medium Total							3E-06					9E-02
Medium Total								3E-06					9E-02
Soil	Surface Soil	Station 07/DP	Arsenic	6E-07	- -	2E-07	- -	9E-07	Skin	4E-02	- -	1E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-02	- -	- -	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-04	- -	- -	8E-04
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	6E-07	- -	2E-07	- -	9E-07		8E-02	- -	1E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					9E-02
	Exposure Medium Total							9E-07					9E-02
Medium Total								9E-07					9E-02
Receptor Total								3E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Skin HI =	1E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-03
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	2E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.61.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station LP											
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	2E-05	- -	7E-06	- -	3E-05	Skin	4E-01	- -	1E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	8E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	7E-05	- -	- -	7E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-05	- -	7E-06	- -	3E-05		5E-01	- -	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Receptor Total								3E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	5E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	6E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.61.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station LP											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	1E-06	- -	8E-07	- -	2E-06	Skin	6E-02	- -	4E-02	1E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	3E-03	3E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-03	- -	- -	3E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-06	- -	8E-07	- -	2E-06		8E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	1E-01
Total Nervous System HI =	4E-03
Total Immune System HI =	7E-05
Total Kidney HI =	1E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.62.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station AS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Arsenic	2E-05	- -	6E-06	- -	2E-05	Skin	3E-01	- -	1E-01	4E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	4E-02	6E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-04	- -	- -	9E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	3E-03	- -	- -	3E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	2E-05	- -	6E-06	- -	2E-05		5E-01	- -	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					7E-01
	Exposure Medium Total							2E-05					7E-01
Medium Total								2E-05					7E-01
Receptor Total								2E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 7E-01

Total Skin HI =	4E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	4E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.62.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-04	5E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station AS											
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Arsenic	8E-07	- -	6E-07	- -	1E-06	Skin	5E-02	- -	3E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	1E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	4E-04	- -	- -	4E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Chemical Total	8E-07	- -	6E-07	- -	1E-06		9E-02	- -	4E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	7E-05
Total Kidney HI =	4E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.63.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-03	5E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-03	7E-03
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Receptor Total								N/A					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 1E-02

Total Skin HI =	N/A
Total Nervous System HI =	7E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.63.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	8E-04	8E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	N/A	- -	N/A		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Receptor Total								N/A					2E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 2E-03

Total Skin HI =	N/A
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	8E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.64.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	5E-05	5E-05
			Tetrachloroethene	--	- -	9E-07	- -	9E-07	Liver	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	9E-04	9E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	9E-07	- -	9E-07		- -	- -	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-06	- -	3E-06	- -	6E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-04	- -	1E-04	3E-04
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	3E-06	- -	1E-06	- -	5E-06	Skin	6E-02	- -	2E-02	8E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	9E-04	- -	- -	9E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	5E-03	7E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-04	- -	- -	8E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	7E-06	- -	5E-06	- -	1E-05		2E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Receptor Total								1E-05					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 1E-05

Total Hazard Across All Media: 2E-01

Total Skin HI =	8E-02
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	9E-04
Total Cardiovascular HI =	9E-04
Total Developmental HI =	N/A

TABLE 3-9.64.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	1E-05	1E-05
			Tetrachloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-04	2E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	6E-08	- -	6E-08		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	Station 05											
			Benzo(a)anthracene	3E-09	- -	5E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-08	- -	4E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-10	- -	3E-10	- -	5E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	8E-06	- -	1E-05	2E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-04	- -	- -	6E-04
			Arsenic	6E-08	- -	4E-08	- -	1E-07	Skin	3E-03	- -	2E-03	6E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-05	- -	2E-04	3E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-06	- -	- -	5E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-04	- -	- -	2E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-04	- -	- -	2E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-03	- -	- -	4E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-04	- -	- -	1E-04
			Chemical Total	9E-08	- -	9E-08	- -	2E-07		1E-02	- -	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	6E-03
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.65.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	7E-04
Total Nervous System HI =	5E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.65.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.66.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Sediment	Sediment	Station 03	Benzo(a)anthracene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	8E-09	- -	7E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	7E-05	- -	5E-05	1E-04
			Aroclor 1260	4E-08	- -	3E-08	- -	7E-08	Immune System	8E-03	- -	6E-03	1E-02
			Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	1E-05	- -	4E-06	- -	2E-05	Skin	2E-01	- -	7E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-03	- -	- -	8E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Chemical Total	1E-05	- -	6E-06	- -	2E-05		3E-01	- -	9E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 4E-01

Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-02
Total Kidney HI =	1E-01
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.66.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Sediment	Sediment	Station 03											
			Benzo(a)anthracene	4E-09	- -	6E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-08	- -	5E-08	- -	8E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-09	- -	7E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	2E-10	- -	4E-10	- -	6E-10	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	7E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	- -	4E-09	- -	6E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Aroclor 1260	5E-10	- -	8E-10	- -	1E-09	Immune System	6E-04	- -	9E-04	2E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	2E-07	- -	2E-07	- -	4E-07	Skin	1E-02	- -	9E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-04	- -	- -	1E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	2E-03	2E-03
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-05	- -	- -	1E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-04	- -	- -	5E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-04	- -	- -	7E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-04	- -	- -	6E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-04	- -	- -	4E-04
			Chemical Total	3E-07	- -	3E-07	- -	5E-07		2E-02	- -	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Receptor Total								5E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 4E-02

Total Skin HI =	2E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	2E-03
Total Kidney HI =	8E-03
Total Blood HI =	9E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.67.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	7E-04
Total Nervous System HI =	5E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.67.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	8E-05	8E-05
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-04	3E-04
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.68.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	3E-07	- -	6E-08	- -	3E-07	Skin	4E-03	- -	5E-04	4E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	2E-04	- -	2E-03	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	1E-03	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	5E-05	- -	9E-05	1E-04
			Chemical Total	3E-07	- -	6E-08	- -	3E-07		4E-03	- -	4E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-07					8E-03
	Exposure Medium Total							3E-07					8E-03
Medium Total								3E-07					8E-03
Sediment	Sediment	Station 01	Benzo(a)anthracene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-09	- -	2E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-05	- -	2E-05	6E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	8E-07	- -	3E-07	- -	1E-06	Skin	1E-02	- -	5E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	5E-04	8E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-04	- -	- -	8E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	1E-06	- -	6E-07	- -	2E-06		5E-02	- -	5E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-02
	Exposure Medium Total							2E-06					5E-02
Medium Total								2E-06					5E-02
Receptor Total								2E-06					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	1E-04
Total Kidney HI =	2E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.68.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	5E-09	- -	1E-09	- -	7E-09	Skin	2E-04	- -	3E-05	3E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	1E-05	- -	1E-04	1E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-05	- -	8E-05	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-06	- -	6E-06	9E-06
			Chemical Total	5E-09	- -	1E-09	- -	7E-09		3E-04	- -	2E-04	5E-04
			Radionuclide Total										
		Exposure Point Total						7E-09					5E-04
	Exposure Medium Total							7E-09					5E-04
Medium Total								7E-09					5E-04
Sediment	Sediment	Station 01											
			Benzo(a)anthracene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	3E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-08	- -	3E-08	- -	8E-08	Skin	2E-03	- -	2E-03	4E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-05	- -	- -	4E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-06	- -	- -	1E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-05	- -	- -	9E-05
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-04	- -	- -	3E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-08	- -	6E-08	- -	1E-07		7E-03	- -	2E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					9E-03
	Exposure Medium Total							1E-07					9E-03
Medium Total								1E-07					9E-03
Receptor Total								1E-07					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 1E-02

Total Skin HI =	4E-03
Total Nervous System HI =	4E-04
Total Immune System HI =	9E-06
Total Kidney HI =	3E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	9E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-04
Total Cardiovascular HI =	4E-05
Total Developmental HI =	N/A

TABLE 3-9.69.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	7E-08	- -	- -	- -	7E-08	Immune System	4E-04	- -	- -	4E-04
			4,4'-DDE	2E-07	- -	- -	- -	2E-07	Developmental	6E-03	- -	- -	6E-03
			4,4'-DDT	4E-08	- -	- -	- -	4E-08	Liver	6E-04	- -	- -	6E-04
			Aldrin	2E-07	- -	- -	- -	2E-07	Liver	1E-03	- -	- -	1E-03
			alpha-Chlordane	8E-08	- -	- -	- -	8E-08	Liver	1E-03	- -	- -	1E-03
			Aroclor-1254	2E-06	- -	- -	- -	2E-06	Immune System	1E-01	- -	- -	1E-01
			Aroclor-1260	5E-06	- -	- -	- -	5E-06	Immune System	3E-01	- -	- -	3E-01
			delta-BHC	N/A	- -	- -	- -	N/A	Liver/Kidney	2E-04	- -	- -	2E-04
			Dieldrin	1E-06	- -	- -	- -	1E-06	Liver	5E-03	- -	- -	5E-03
			Heptachlor epoxide	3E-07	- -	- -	- -	3E-07	Liver	7E-03	- -	- -	7E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	9E-06	- -	- -	- -	9E-06		9E-01	- -	- -	9E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					9E-01
	Exposure Medium Total							9E-06					9E-01
Medium Total								9E-06					9E-01
Receptor Total								9E-06					9E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 9E-01

Total Skin HI =	N/A
Total Nervous System HI =	4E-01
Total Immune System HI =	4E-01
Total Kidney HI =	2E-04
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	6E-03

TABLE 3-9.69.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	8E-09	- -	- -	- -	8E-09	Immune System	1E-04	- -	- -	1E-04
			4,4'-DDE	3E-08	- -	- -	- -	3E-08	Developmental	2E-03	- -	- -	2E-03
			4,4'-DDT	5E-09	- -	- -	- -	5E-09	Liver	2E-04	- -	- -	2E-04
			Aldrin	3E-08	- -	- -	- -	3E-08	Liver	4E-04	- -	- -	4E-04
			alpha-Chlordane	1E-08	- -	- -	- -	1E-08	Liver	5E-04	- -	- -	5E-04
			Aroclor-1254	1E-07	- -	- -	- -	1E-07	Immune System	4E-02	- -	- -	4E-02
			Aroclor-1260	3E-07	- -	- -	- -	3E-07	Immune System	1E-01	- -	- -	1E-01
			delta-BHC	N/A	- -	- -	- -	N/A	Liver/Kidney	7E-05	- -	- -	7E-05
			Dieldrin	2E-07	- -	- -	- -	2E-07	Liver	2E-03	- -	- -	2E-03
			Heptachlor epoxide	4E-08	- -	- -	- -	4E-08	Liver	3E-03	- -	- -	3E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	7E-07	- -	- -	- -	7E-07		3E-01	- -	- -	3E-01
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-01
	Exposure Medium Total							7E-07					3E-01
Medium Total								7E-07					3E-01
Receptor Total								7E-07					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 3E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	2E-01
Total Kidney HI =	7E-05
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03

TABLE 3-9.70.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-07	- -	- -	- -	2E-07	Immune System	8E-04	- -	- -	8E-04
			4,4'-DDE	1E-06	- -	- -	- -	1E-06	Developmental	3E-02	- -	- -	3E-02
			4,4'-DDT	1E-07	- -	- -	- -	1E-07	Liver	2E-03	- -	- -	2E-03
			Aldrin	4E-07	- -	- -	- -	4E-07	Liver	2E-03	- -	- -	2E-03
			alpha-Chlordane	4E-08	- -	- -	- -	4E-08	Liver	5E-04	- -	- -	5E-04
			Aroclor-1254	7E-06	- -	- -	- -	7E-06	Immune System	4E-01	- -	- -	4E-01
			Aroclor-1260	2E-05	- -	- -	- -	2E-05	Immune System	1E+00	- -	- -	1E+00
			Dieldrin	1E-06	- -	- -	- -	1E-06	Liver	3E-03	- -	- -	3E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-01	- -	- -	3E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	3E-05	- -	- -	- -	3E-05		2E+00	- -	- -	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	N/A
Total Nervous System HI =	3E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	3E-02

TABLE 3-9.70.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-08	- -	- -	- -	2E-08	Immune System	3E-04	- -	- -	3E-04
			4,4'-DDE	1E-07	- -	- -	- -	1E-07	Developmental	1E-02	- -	- -	1E-02
			4,4'-DDT	1E-08	- -	- -	- -	1E-08	Liver	7E-04	- -	- -	7E-04
			Aldrin	4E-08	- -	- -	- -	4E-08	Liver	7E-04	- -	- -	7E-04
			alpha-Chlordane	4E-09	- -	- -	- -	4E-09	Liver	2E-04	- -	- -	2E-04
			Aroclor-1254	4E-07	- -	- -	- -	4E-07	Immune System	2E-01	- -	- -	2E-01
			Aroclor-1260	9E-07	- -	- -	- -	9E-07	Immune System	4E-01	- -	- -	4E-01
			Dieldrin	1E-07	- -	- -	- -	1E-07	Liver	1E-03	- -	- -	1E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	2E-06	- -	- -	- -	2E-06		7E-01	- -	- -	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					7E-01
	Exposure Medium Total							2E-06					7E-01
Medium Total								2E-06					7E-01
Receptor Total								2E-06					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 7E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	6E-01
Total Kidney HI =	N/A
Total Blood HI =	8E-03
Total General Toxicity HI =	N/A
Total Liver HI =	8E-03
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	1E-02

TABLE 3-9.71.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-07	- -	- -	- -	2E-07	Immune System	1E-03	- -	- -	1E-03
			4,4'-DDE	8E-07	- -	- -	- -	8E-07	Developmental	2E-02	- -	- -	2E-02
			4,4'-DDT	7E-08	- -	- -	- -	7E-08	Liver	1E-03	- -	- -	1E-03
			Aldrin	4E-07	- -	- -	- -	4E-07	Liver	2E-03	- -	- -	2E-03
			alpha-Chlordane	1E-07	- -	- -	- -	1E-07	Liver	2E-03	- -	- -	2E-03
			Aroclor-1248	6E-07	- -	- -	- -	6E-07	Immune System	4E-02	- -	- -	4E-02
			Aroclor-1254	1E-05	- -	- -	- -	1E-05	Immune System	7E-01	- -	- -	7E-01
			Aroclor-1260	6E-06	- -	- -	- -	6E-06	Immune System	4E-01	- -	- -	4E-01
			Dieldrin	2E-06	- -	- -	- -	2E-06	Liver	5E-03	- -	- -	5E-03
			Heptachlor epoxide	2E-07	- -	- -	- -	2E-07	Liver	4E-03	- -	- -	4E-03
			Arsenic	1E-05	- -	- -	- -	1E-05	Skin	5E-02	- -	- -	5E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	1E-02	- -	- -	1E-02
			Chemical Total	3E-05	- -	- -	- -	3E-05		1E+00	- -	- -	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-02
Total Nervous System HI =	2E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-02

TABLE 3-9.71.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Older Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-08	- -	- -	- -	2E-08	Immune System	4E-04	- -	- -	4E-04
			4,4'-DDE	9E-08	- -	- -	- -	9E-08	Developmental	8E-03	- -	- -	8E-03
			4,4'-DDT	8E-09	- -	- -	- -	8E-09	Liver	4E-04	- -	- -	4E-04
			Aldrin	4E-08	- -	- -	- -	4E-08	Liver	7E-04	- -	- -	7E-04
			alpha-Chlordane	1E-08	- -	- -	- -	1E-08	Liver	7E-04	- -	- -	7E-04
			Aroclor-1248	4E-08	- -	- -	- -	4E-08	Immune System	2E-02	- -	- -	2E-02
			Aroclor-1254	6E-07	- -	- -	- -	6E-07	Immune System	3E-01	- -	- -	3E-01
			Aroclor-1260	4E-07	- -	- -	- -	4E-07	Immune System	2E-01	- -	- -	2E-01
			Dieldrin	2E-07	- -	- -	- -	2E-07	Liver	2E-03	- -	- -	2E-03
			Heptachlor epoxide	2E-08	- -	- -	- -	2E-08	Liver	2E-03	- -	- -	2E-03
			Arsenic	1E-06	- -	- -	- -	1E-06	Skin	2E-02	- -	- -	2E-02
			Lead										
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Selenium	N/A	- -	- -	- -	N/A	Liver	5E-03	- -	- -	5E-03
			Chemical Total	2E-06	- -	- -	- -	2E-06		5E-01	- -	- -	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-01
	Exposure Medium Total							2E-06					5E-01
Medium Total								2E-06					5E-01
Receptor Total								2E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-02
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-01
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	8E-03

TABLE 3-9.72.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AJRW (Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	5E-05	5E-05
			Tetrachloroethene	--	- -	9E-07	- -	9E-07	Liver	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	9E-04	9E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	9E-07	- -	9E-07		- -	- -	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	AJRW	Arsenic	3E-06	- -	9E-07	- -	3E-06	Skin	5E-02	- -	2E-02	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Chemical Total	3E-06	- -	9E-07	- -	3E-06		6E-02	- -	2E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					8E-02
	Exposure Medium Total							3E-06					8E-02
Medium Total								3E-06					8E-02
Soil	Surface Soil	AJRW	Arsenic	2E-05	- -	3E-06	- -	2E-05	Skin	3E-01	- -	5E-02	4E-01
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	5E-05	- -	- -	5E-05
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Chemical Total	2E-05	- -	3E-06	- -	2E-05		4E-01	- -	5E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					5E-01
	Exposure Medium Total							2E-05					5E-01
Medium Total								2E-05					5E-01
Receptor Total								3E-05					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 5E-01

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-05

Total Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	7E-02
Total Blood HI =	N/A
Total General Toxicity HI =	5E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.72.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AJRW (Reach 5)	Chloroform	--	- -	N/A	- -	N/A	Liver	- -	- -	1E-05	1E-05
			Tetrachloroethene	--	- -	6E-08	- -	6E-08	Liver	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	6E-08	- -	6E-08		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	AJRW	Arsenic	1E-07	- -	1E-07	- -	2E-07	Skin	8E-03	- -	5E-03	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-04	- -	- -	8E-04
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Chemical Total	1E-07	- -	1E-07	- -	2E-07		1E-02	- -	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Soil	Surface Soil	AJRW	Arsenic	9E-07	- -	4E-07	- -	1E-06	Skin	5E-02	- -	2E-02	7E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	8E-06	- -	- -	8E-06
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-03	- -	- -	1E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Chemical Total	9E-07	- -	4E-07	- -	1E-06		7E-02	- -	2E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					9E-02
	Exposure Medium Total							1E-06					9E-02
Medium Total								1E-06					9E-02
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	5E-03
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Blood HI =	N/A
Total General Toxicity HI =	8E-06
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.73.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 26 days											
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Receptor Total								1E-07					8E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	4E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.73.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 26 days											
			Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	2E-08	- -	2E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						2E-08					4E-03
	Exposure Medium Total							2E-08					4E-03
Medium Total								2E-08					4E-03
Receptor Total								2E-08					4E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-08

Total Hazard Across All Media: 4E-03

Total Skin HI =	5E-04
Total Nervous System HI =	2E-03
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.74.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 52 days											
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	7E-03	7E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	6E-03	6E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	8E-05	8E-05
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	6E-03
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.75.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 78 days											
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	9E-03	9E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	3E-07	- -	3E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						3E-07					2E-02
	Exposure Medium Total							3E-07					2E-02
Medium Total								3E-07					2E-02
Receptor Total								3E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	3E-03
Total Nervous System HI =	9E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.75.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 78 days											
			Arsenic	--	- -	5E-08	- -	5E-08	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-03	5E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	6E-05	6E-05
			Chemical Total	--	- -	5E-08	- -	5E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						5E-08					1E-02
	Exposure Medium Total							5E-08					1E-02
Medium Total								5E-08					1E-02
Receptor Total								5E-08					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-08

Total Hazard Across All Media: 1E-02

Total Skin HI =	2E-03
Total Nervous System HI =	5E-03
Total Immune System HI =	6E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.76.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-05 - 104 days											
			Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	4E-07	- -	4E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					3E-02
	Exposure Medium Total							4E-07					3E-02
Medium Total								4E-07					3E-02
Receptor Total								4E-07					3E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	4E-03
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.77.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-06 - 26 days											
			Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	6E-04	6E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					6E-03
	Exposure Medium Total							7E-08					6E-03
Medium Total								7E-08					6E-03
Receptor Total								7E-08					6E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 6E-03

Total Skin HI =	6E-04
Total Nervous System HI =	3E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.77.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-06 - 26 days	Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	3E-03	3E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					3E-03
	Exposure Medium Total							1E-08					3E-03
Medium Total								1E-08					3E-03
Receptor Total								1E-08					3E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 3E-03

Total Skin HI =	3E-04
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.78.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW05 - 78 days											
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	7E-03	7E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	8E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.78.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW05 - 78 days	Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					8E-03
	Exposure Medium Total							3E-08					8E-03
Medium Total								3E-08					8E-03
Receptor Total								3E-08					8E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.79.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-06 - 104 days											
			Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	9E-03	9E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Chemical Total	--	- -	3E-07	- -	3E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						3E-07					2E-02
	Exposure Medium Total							3E-07					2E-02
Medium Total								3E-07					2E-02
Receptor Total								3E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	3E-03
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	9E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.80.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-07 - 26 days	Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	3E-04	3E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					2E-03
	Exposure Medium Total							3E-08					2E-03
Medium Total								3E-08					2E-03
Receptor Total								3E-08					2E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 2E-03

Total Skin HI =	3E-04
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.80.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-07 - 26 days	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Receptor Total								5E-09					1E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-09

Total Hazard Across All Media: 1E-03

Total Skin HI =	1E-04
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.81.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-07 - 78 days	Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	6E-03	6E-03
			Chemical Total	--	- -	9E-08	- -	9E-08		- -	- -	7E-03	7E-03
			Radionuclide Total										
		Exposure Point Total						9E-08					7E-03
	Exposure Medium Total							9E-08					7E-03
Medium Total								9E-08					7E-03
Receptor Total								9E-08					7E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-08

Total Hazard Across All Media: 7E-03

Total Skin HI =	9E-04
Total Nervous System HI =	6E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.82.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-08 - 78 days	Arsenic	--	- -	6E-08	- -	6E-08	Skin	- -	- -	6E-04	6E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	6E-08	- -	6E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					5E-03
	Exposure Medium Total							6E-08					5E-03
Medium Total								6E-08					5E-03
Receptor Total								6E-08					5E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-08

Total Hazard Across All Media: 5E-03

Total Skin HI =	6E-04
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.82.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-08 - 26 days	Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-04	7E-04
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	8E-04	8E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					8E-04
	Exposure Medium Total							3E-09					8E-04
Medium Total								3E-09					8E-04
Receptor Total								3E-09					8E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 8E-04

Total Skin HI =	1E-04
Total Nervous System HI =	7E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.83.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-09 - 78 days	Arsenic	--	- -	4E-08	- -	4E-08	Skin	- -	- -	4E-04	4E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	4E-08	- -	4E-08		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						4E-08					1E-03
	Exposure Medium Total							4E-08					1E-03
Medium Total								4E-08					1E-03
Receptor Total								4E-08					1E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-08

Total Hazard Across All Media: 1E-03

Total Skin HI =	4E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.83.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-09 - 26 days	Arsenic	--	- -	2E-09	- -	2E-09	Skin	- -	- -	6E-05	6E-05
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	2E-09	- -	2E-09		- -	- -	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						2E-09					2E-04
	Exposure Medium Total							2E-09					2E-04
Medium Total								2E-09					2E-04
Receptor Total								2E-09					2E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	6E-05
Total Nervous System HI =	1E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.84.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-10 - 39 days	Arsenic	2E-07	- -	4E-08	- -	2E-07	Skin	2E-03	- -	3E-04	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-04	- -	5E-04	7E-04
			Chemical Total	2E-07	- -	4E-08	- -	2E-07		2E-03	- -	8E-04	3E-03
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-03
	Exposure Medium Total							2E-07					3E-03
Medium Total								2E-07					3E-03
Receptor Total								2E-07					3E-03

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 3E-03

Total Skin HI =	2E-03
Total Nervous System HI =	N/A
Total Immune System HI =	7E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.84.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Baseflow Surface Water	SW-10 - 5 days	Arsenic	3E-09	- -	7E-10	- -	4E-09	Skin	1E-04	- -	2E-05	2E-04
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	2E-05	- -	3E-05	5E-05
			Chemical Total	3E-09	- -	7E-10	- -	4E-09		2E-04	- -	5E-05	2E-04
			Radionuclide Total										
		Exposure Point Total						4E-09					2E-04
	Exposure Medium Total							4E-09					2E-04
Medium Total								4E-09					2E-04
Receptor Total								4E-09					2E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	2E-04
Total Nervous System HI =	N/A
Total Immune System HI =	5E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.85.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-05											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	1E-03	1E-03
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-03	6E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					1E-02
	Exposure Medium Total							1E-07					1E-02
Medium Total								1E-07					1E-02
Receptor Total								1E-07					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 1E-02

Total Skin HI =	1E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	9E-05
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.85.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-05											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	2E-04	2E-04
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	3E-03	3E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					3E-03
	Exposure Medium Total							1E-08					3E-03
Medium Total								1E-08					3E-03
Receptor Total								1E-08					3E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 3E-03

Total Skin HI =	3E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	2E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.86.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-06											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	1E-03	1E-03
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.86.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-06											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	3E-04	3E-04
			Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	4E-04	4E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-04	8E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					4E-03
	Exposure Medium Total							1E-08					4E-03
Medium Total								1E-08					4E-03
Receptor Total								1E-08					4E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 4E-03

Total Skin HI =	4E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	3E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.87.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-07											
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-03	5E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	8E-05	8E-05
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Receptor Total								1E-07					8E-03

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	2E-03
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.87.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-07											
			Arsenic	--	- -	8E-09	- -	8E-09	Skin	- -	- -	2E-04	2E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	8E-09	- -	8E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						8E-09					2E-03
	Exposure Medium Total							8E-09					2E-03
Medium Total								8E-09					2E-03
Receptor Total								8E-09					2E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-09

Total Hazard Across All Media: 2E-03

Total Skin HI =	2E-04
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.88.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-08											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	5E-04	5E-04
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-02	3E-02
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	5E-04	5E-04
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					4E-02
	Exposure Medium Total							2E-07					4E-02
Medium Total								2E-07					4E-02
Receptor Total								2E-07					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 4E-02

Total Skin HI =	2E-03
Total Nervous System HI =	5E-03
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.88.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-08											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	1E-04	1E-04
			Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	7E-03	7E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	2E-08	- -	2E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						2E-08					9E-03
	Exposure Medium Total							2E-08					9E-03
Medium Total								2E-08					9E-03
Receptor Total								2E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	5E-04
Total Nervous System HI =	1E-03
Total Immune System HI =	4E-05
Total Kidney HI =	N/A
Total Blood HI =	3E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.89.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-09	Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	6E-04	6E-04
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-08					9E-04
	Exposure Medium Total							3E-08					9E-04
Medium Total								3E-08					9E-04
Receptor Total								3E-08					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 9E-04

Total Skin HI =	3E-04
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	6E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.89.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-09	Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	2E-04	2E-04
			Arsenic	--	- -	2E-09	- -	2E-09	Skin	- -	- -	7E-05	7E-05
			Chemical Total	--	- -	2E-09	- -	2E-09		- -	- -	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						2E-09					2E-04
	Exposure Medium Total							2E-09					2E-04
Medium Total								2E-09					2E-04
Receptor Total								2E-09					2E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	7E-05
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	2E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.90.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-10	Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	1E-04	1E-04
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	8E-05	8E-05
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						1E-08					2E-04
	Exposure Medium Total							1E-08					2E-04
Medium Total								1E-08					2E-04
Receptor Total								1E-08					2E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 2E-04

Total Skin HI =	1E-04
Total Nervous System HI =	N/A
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.90.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Storm Event Surface Water	SW-10	Arsenic	--	- -	1E-09	- -	1E-09	Skin	- -	- -	4E-05	4E-05
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	1E-09	- -	1E-09		- -	- -	5E-05	5E-05
			Radionuclide Total										
		Exposure Point Total						1E-09					5E-05
	Exposure Medium Total							1E-09					5E-05
Medium Total								1E-09					5E-05
Receptor Total								1E-09					5E-05

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-09

Total Hazard Across All Media: 5E-05

Total Skin HI =	4E-05
Total Nervous System HI =	N/A
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.91.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC05											
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Arsenic	3E-05	- -	5E-06	- -	3E-05	Skin	2E+00	- -	4E-01	2E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-01	- -	- -	3E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Chemical Total	3E-05	- -	5E-06	- -	3E-05		3E+00	- -	4E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					3E+00
	Exposure Medium Total							3E-05					3E+00
Medium Total								3E-05					3E+00
Receptor Total								3E-05					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 3E+00

Total Skin HI =	2E+00
Total Nervous System HI =	3E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.91.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC05											
			Antimony	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Arsenic	4E-06	- -	7E-07	- -	5E-06	Skin	6E-01	- -	1E-01	7E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Chemical Total	4E-06	- -	7E-07	- -	5E-06		8E-01	- -	1E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-06					1E+00
	Exposure Medium Total							5E-06					1E+00
Medium Total								5E-06					1E+00
Receptor Total								5E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 1E+00

Total Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	N/A
Total Kidney HI =	9E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.92.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC06											
			Arsenic	5E-05	- -	9E-06	- -	6E-05	Skin	4E+00	- -	7E-01	4E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-02	- -	7E-02	1E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	5E-05	- -	9E-06	- -	6E-05		4E+00	- -	8E-01	5E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					5E+00
	Exposure Medium Total							6E-05					5E+00
Medium Total								6E-05					5E+00
Receptor Total								6E-05					5E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 5E+00

Total Skin HI =	4E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	N/A
Total Kidney HI =	3E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.92.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC06											
			Arsenic	6E-06	- -	1E-06	- -	7E-06	Skin	9E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Chemical Total	6E-06	- -	1E-06	- -	7E-06		1E+00	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						7E-06					1E+00
	Exposure Medium Total							7E-06					1E+00
Medium Total								7E-06					1E+00
Receptor Total								7E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 1E+00

Total Skin HI =	1E+00
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	9E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.93.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC07											
			Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	9E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		1E+00	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	1E+00
Total Nervous System HI =	9E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.93.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC07											
			Arsenic	3E-06	- -	6E-07	- -	3E-06	Skin	4E-01	- -	9E-02	5E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Chemical Total	3E-06	- -	6E-07	- -	3E-06		6E-01	- -	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					7E-01
	Exposure Medium Total							3E-06					7E-01
Medium Total								3E-06					7E-01
Receptor Total								3E-06					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 7E-01

Total Skin HI =	5E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	9E-02
Total Blood HI =	9E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.94.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC08											
			Arsenic	4E-05	- -	7E-06	- -	4E-05	Skin	3E+00	- -	5E-01	3E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	4E-05	- -	7E-06	- -	4E-05		3E+00	- -	6E-01	4E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					4E+00
	Exposure Medium Total							4E-05					4E+00
Medium Total								4E-05					4E+00
Receptor Total								4E-05					4E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 4E+00

Total Skin HI =	3E+00
Total Nervous System HI =	2E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.94.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC08											
			Arsenic	3E-06	- -	5E-07	- -	3E-06	Skin	4E-01	- -	8E-02	5E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	6E-03	1E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-03	- -	- -	8E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	5E-03	- -	- -	5E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chemical Total	3E-06	- -	5E-07	- -	3E-06		4E-01	- -	8E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					5E-01
	Exposure Medium Total							3E-06					5E-01
Medium Total								3E-06					5E-01
Receptor Total								3E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	5E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Blood HI =	5E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.95.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC09											
			Arsenic	3E-06	- -	5E-07	- -	3E-06	Skin	2E-01	- -	4E-02	2E-01
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Chemical Total	3E-06	- -	5E-07	- -	3E-06		2E-01	- -	4E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					3E-01
	Exposure Medium Total							3E-06					3E-01
Medium Total								3E-06					3E-01
Receptor Total								3E-06					3E-01

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 3E-01

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.95.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC09											
			Arsenic	3E-07	- -	7E-08	- -	4E-07	Skin	5E-02	- -	1E-02	6E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Chemical Total	3E-07	- -	7E-08	- -	4E-07		6E-02	- -	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					7E-02
	Exposure Medium Total							4E-07					7E-02
Medium Total								4E-07					7E-02
Receptor Total								4E-07					7E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 7E-02

Total Skin HI =	6E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.96.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC10	Arsenic	2E-06	- -	3E-07	- -	2E-06	Skin	1E-01	- -	3E-02	2E-01
			Chemical Total	2E-06	- -	3E-07	- -	2E-06		1E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					2E-01
	Exposure Medium Total							2E-06					2E-01
Medium Total								2E-06					2E-01
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	2E-01
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.96.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC10	Arsenic	4E-07	- -	8E-08	- -	5E-07	Skin	6E-02	- -	1E-02	8E-02
			Chemical Total	4E-07	- -	8E-08	- -	5E-07		6E-02	- -	1E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					8E-02
	Exposure Medium Total							5E-07					8E-02
Medium Total								5E-07					8E-02
Receptor Total								5E-07					8E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 8E-02

Total Skin HI =	8E-02
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.97.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC11											
			Arsenic	3E-06	- -	6E-07	- -	4E-06	Skin	2E-01	- -	5E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	1E-02	2E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Chemical Total	3E-06	- -	6E-07	- -	4E-06		4E-01	- -	6E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					5E-01
	Exposure Medium Total							4E-06					5E-01
Medium Total								4E-06					5E-01
Receptor Total								4E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.97.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC11											
			Arsenic	7E-07	- -	1E-07	- -	9E-07	Skin	1E-01	- -	2E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	5E-03	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Chemical Total	7E-07	- -	1E-07	- -	9E-07		2E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					2E-01
	Exposure Medium Total							9E-07					2E-01
Medium Total								9E-07					2E-01
Receptor Total								9E-07					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-07

Total Hazard Across All Media: 2E-01

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.98.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC12											
			Arsenic	4E-06	- -	7E-07	- -	4E-06	Skin	3E-01	- -	6E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	2E-02	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Chemical Total	4E-06	- -	7E-07	- -	4E-06		5E-01	- -	8E-02	6E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					6E-01
	Exposure Medium Total							4E-06					6E-01
Medium Total								4E-06					6E-01
Receptor Total								4E-06					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 6E-01

Total Skin HI =	3E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.98.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC12											
			Arsenic	8E-07	- -	2E-07	- -	1E-06	Skin	1E-01	- -	2E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	9E-03	2E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Chemical Total	8E-07	- -	2E-07	- -	1E-06		2E-01	- -	3E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					3E-01
	Exposure Medium Total							1E-06					3E-01
Medium Total								1E-06					3E-01
Receptor Total								1E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 3E-01

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	8E-02
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.99.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC13											
			Arsenic	3E-06	- -	7E-07	- -	4E-06	Skin	3E-01	- -	5E-02	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	2E-02	4E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	3E-06	- -	7E-07	- -	4E-06		4E-01	- -	7E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					5E-01
	Exposure Medium Total							4E-06					5E-01
Medium Total								4E-06					5E-01
Receptor Total								4E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.99.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC13											
			Arsenic	8E-07	- -	2E-07	- -	1E-06	Skin	1E-01	- -	3E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	1E-02	2E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-03	- -	- -	7E-03
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-03	- -	- -	3E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	5E-02	- -	- -	5E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chemical Total	8E-07	- -	2E-07	- -	1E-06		2E-01	- -	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					2E-01
	Exposure Medium Total							1E-06					2E-01
Medium Total								1E-06					2E-01
Receptor Total								1E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	8E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.100.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station 07/DP											
			Arsenic	4E-05	- -	4E-06	- -	5E-05	Skin	8E-01	- -	7E-02	9E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-01	- -	- -	3E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	5E-02	- -	- -	5E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-01	- -	- -	2E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-01	- -	- -	3E-01
			Chemical Total	4E-05	- -	4E-06	- -	5E-05		2E+00	- -	7E-02	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	9E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	5E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.100.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station 07/DP											
			Arsenic	7E-06	- -	1E-06	- -	9E-06	Skin	4E-01	- -	7E-02	5E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-01	- -	- -	1E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	6E-02	- -	- -	6E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	2E-01	- -	- -	2E-01
			Chemical Total	7E-06	- -	1E-06	- -	9E-06		9E-01	- -	7E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						9E-06					1E+00
	Exposure Medium Total							9E-06					1E+00
Medium Total								9E-06					1E+00
Receptor Total								9E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.101.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station KF											
			Arsenic	5E-05	- -	4E-06	- -	5E-05	Skin	8E-01	- -	7E-02	9E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	9E-03	2E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-01	- -	- -	2E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	6E-02	- -	- -	6E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-01	- -	- -	2E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-03	- -	- -	7E-03
			Chemical Total	5E-05	- -	4E-06	- -	5E-05		1E+00	- -	8E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					1E+00
	Exposure Medium Total							5E-05					1E+00
Medium Total								5E-05					1E+00
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	9E-01
Total Nervous System HI =	1E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	7E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.101.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station KF											
			Arsenic	7E-06	- -	1E-06	- -	9E-06	Skin	4E-01	- -	7E-02	5E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	9E-03	1E-02
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	1E-01	- -	- -	1E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	4E-03	- -	- -	4E-03
			Chemical Total	7E-06	- -	1E-06	- -	9E-06		7E-01	- -	8E-02	8E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					8E-01
	Exposure Medium Total							9E-06					8E-01
Medium Total								9E-06					8E-01
Receptor Total								9E-06					8E-01

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 8E-01

Total Skin HI =	5E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	4E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.102.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	AJRW											
			Arsenic	7E-05	- -	6E-06	- -	7E-05	Skin	1E+00	- -	1E-01	1E+00
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-01	- -	- -	3E-01
			Chemical Total	7E-05	- -	6E-06	- -	7E-05		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	6E-02
Total Immune System HI =	N/A
Total Kidney HI =	3E-01
Total Blood HI =	N/A
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.102.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	AJRW											
			Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	6E-01	- -	1E-01	7E-01
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-04	- -	- -	1E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		8E-01	- -	1E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					9E-01
	Exposure Medium Total							1E-05					9E-01
Medium Total								1E-05					9E-01
Receptor Total								1E-05					9E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 9E-01

Total Skin HI =	7E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	N/A
Total General Toxicity HI =	1E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.103.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station WS/WSS											
			Arsenic	1E-05	- -	1E-06	- -	1E-05	Skin	2E-01	- -	2E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-02	- -	- -	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-03	- -	- -	6E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	8E-02	- -	- -	8E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	1E-05	- -	1E-06	- -	1E-05		5E-01	- -	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	8E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.103.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station WS/WSS											
			Arsenic	7E-06	- -	3E-07	- -	8E-06	Skin	2E-01	- -	2E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	1E-03	2E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-02	- -	- -	3E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	6E-03	- -	- -	6E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	8E-02	- -	- -	8E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-03	- -	- -	1E-03
			Chemical Total	7E-06	- -	3E-07	- -	8E-06		5E-01	- -	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					5E-01
	Exposure Medium Total							8E-06					5E-01
Medium Total								8E-06					5E-01
Receptor Total								8E-06					5E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	8E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.104.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	6E-05	- -	6E-06	- -	7E-05	Skin	1E+00	- -	9E-02	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	4E-03	8E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-01	- -	- -	3E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	6E-05	- -	6E-06	- -	7E-05		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.104.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Station CB-05											
			Arsenic	4E-05	- -	2E-06	- -	5E-05	Skin	1E+00	- -	9E-02	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	4E-03	8E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	3E-01	- -	- -	3E-01
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-03	- -	- -	9E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-01	- -	- -	1E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-01	- -	- -	1E-01
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Chemical Total	4E-05	- -	2E-06	- -	5E-05		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-10.1.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station WH	Arsenic						Skin	2E+00	- -	5E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	5E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media - -

Total Hazard Across All Media 2E+00

Total Skin HI = 2E+00

TABLE 3-10.2.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station CB-03	Arsenic						Skin	2E+00	- -	6E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	6E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 3E+00

Total Skin HI = 3E+00

TABLE 3-10.3.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station 13/TT-27											
			Benzo(a)pyrene	2E-06	- -	1E-06	- -	3E-06					
			Arsenic	5E-04	- -	2E-04	- -	7E-04	Skin	9E+00	- -	3E+00	1E+01
			Chemical Total	5E-04	- -	2E-04	- -	7E-04		9E+00	- -	3E+00	1E+01
			Radionuclide Total										
		Exposure Point Total						7E-04					1E+01
	Exposure Medium Total							7E-04					1E+01
Medium Total								7E-04					1E+01
Receptor Total								7E-04					1E+01

Total Risk Across All Media: 7E-04

Total Hazard Across All Media: 1E+01

Total Skin HI = 1E+01

TABLE 3-10.3.CT

RISK SUMMARY

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station 13/TT-27	Arsenic						Skin	1E+00	- -	1E+00	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	1E+00	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.4.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station WH	Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06					
			Arsenic	3E-04	- -	9E-05	- -	4E-04	Skin	5E+00	- -	2E+00	6E+00
			Chemical Total	3E-04	- -	1E-04	- -	4E-04		5E+00	- -	2E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					6E+00
	Exposure Medium Total							4E-04					6E+00
Medium Total								4E-04					6E+00
Receptor Total								4E-04					6E+00

Total Risk Across All Media: 4E-04

Total Hazard Across All Media: 6E+00

Total Skin HI = 6E+00

TABLE 3-10.5.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station NT-1	Benzo(a)pyrene	1E-06	- -	9E-07	- -	2E-06					
			Arsenic	3E-04	- -	1E-04	- -	5E-04	Skin	6E+00	- -	2E+00	8E+00
			Chemical Total	3E-04	- -	1E-04	- -	5E-04		6E+00	- -	2E+00	8E+00
			Radionuclide Total										
		Exposure Point Total						5E-04					8E+00
	Exposure Medium Total							5E-04					8E+00
Medium Total								5E-04					8E+00
Receptor Total								5E-04					8E+00

Total Risk Across All Media: 5E-04

Total Hazard Across All Media: 8E+00

Total Skin HI = 8E+00

TABLE 3-10.5.CT

RISK SUMMARY

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station NT-1	Arsenic						Skin	1E+00	- -	7E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	7E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media - -

Total Hazard Across All Media 2E+00

Total Skin HI = 2E+00

TABLE 3-10.6.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station NT-2											
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06					
			Arsenic	2E-04	- -	9E-05	- -	3E-04	Skin	4E+00	- -	1E+00	6E+00
			Chemical Total	2E-04	- -	9E-05	- -	3E-04		4E+00	- -	1E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						3E-04					6E+00
	Exposure Medium Total							3E-04					6E+00
Medium Total								3E-04					6E+00
Receptor Total								3E-04					6E+00

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 6E+00

Total Skin HI = 6E+00

TABLE 3-10.7.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station NT-3	Arsenic						Skin	1E+00	- -	4E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.8.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Station CB-03	Arsenic						Skin	2E+00	- -	6E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	6E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 3E+00

Total Skin HI = 3E+00

TABLE 3-10.9.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC05	Arsenic						Skin	2E+00	- -	4E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media - -

Total Hazard Across All Media 2E+00

Total Skin HI = 2E+00

TABLE 3-10.10.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC06	Arsenic						Skin	4E+00	- -	7E-01	4E+00
			Chemical Total	- -	- -	- -	- -	- -		4E+00	- -	7E-01	4E+00
			Radionuclide Total										
		Exposure Point Total						- -					4E+00
	Exposure Medium Total							- -					4E+00
Medium Total								- -					4E+00
Receptor Total								- -					4E+00

Total Risk Across All Media - -

Total Hazard Across All Media 4E+00

Total Skin HI = 4E+00

TABLE 3-10.11.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC08	Arsenic						Skin	3E+00	- -	5E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		3E+00	- -	5E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media - -

Total Hazard Across All Media 3E+00

Total Skin HI = 3E+00