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TABLE 5-1
SUMMARY OF RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
NR	Current (wader)	RME	3E-05	7E-01		N/A
		CT	7E-06	4E-01		
	Future (wader)	RME	7E-05	1E+00		N/A
		CT	7E-06	4E-01		
14	Current (wader)	RME	6E-06	1E-01		N/A
		CT	1E-06	6E-02		
	Future (wader)	RME	1E-05	3E-01		N/A
		CT	1E-06	6E-02		
22/TT-22	Current (wader)	RME	5E-06	5E-01		N/A
		CT	1E-06	1E-01		
	Future (wader)	RME	2E-05	2E+00		N/A
		CT	1E-06	1E-01		
13/TT-27	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	**7E-04**	**1E+01**	sediment	(C) - As; benzo(a)pyrene
		CT	5E-05	**3E+00**		(NC) - As
WH	Current (wader)	RME	1E-04	**2E+00**	sediment	(NC) - As
		CT	2E-05	1E+00		
	Future (wader)	RME	**4E-04**	**7E+00**	sediment	(C) - As; benzo(a)pyrene
		CT	2E-05	1E+00		(NC) - As
NT-1	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	**5E-04**	**9E+00**	sediment	(C) - As; benzo(a)pyrene
		CT	3E-05	**2E+00**		(NC) - As
NT-2	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	**3E-04**	**6E+00**	sediment	(C) - As; benzo(a)pyrene
		CT	2E-05	1E+00		(NC) - As
NT-3	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	1E-04	**2E+00**	sediment	(NC) - As
		CT	6E-06	4E-01		
WG	Current (wader)	RME	2E-05	4E-01		N/A
		CT	3E-06	2E-01		
	Future (wader)	RME	5E-05	1E+00		N/A
		CT	3E-06	2E-01		
WW	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	1E-05	7E-01		N/A
		CT	5E-07	1E-01		
JY	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	5E-05	2E+00		N/A
		CT	4E-06	4E-01		

TABLE 5-1
SUMMARY OF RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
WS/WSS	Current (wader)	RME	6E-05	2E+00		N/A
		CT	1E-05	8E-01		
	Future (wader)	RME	6E-05	2E+00		N/A
		CT	1E-05	8E-01		
TT-30	Current (wader)	RME	7E-05	2E+00		N/A
		CT	1E-05	1E+00		
	Future (wader)	RME	7E-05	2E+00		N/A
		CT	1E-05	1E+00		
TT-31	Current (wader)	RME	NE	NE		N/A
		CT	NE	NE		
	Future (wader)	RME	6E-06	3E-01		N/A
		CT	2E-07	4E-02		
CB-01	Current (wader)	RME	1E-05	7E-01		N/A
		CT	2E-06	3E-01		
	Future (wader)	RME	1E-05	7E-01		N/A
		CT	2E-06	3E-01		
CB-02	Current (wader)	RME	1E-05	3E-01		N/A
		CT	2E-06	1E-01		
	Future (wader)	RME	1E-05	3E-01		N/A
		CT	2E-06	1E-01		N/A
CB-03	Current (wader)	RME	1E-04	**3E+00**	sediment	(C) - As
		CT	2E-05	1E+00		(NC) - As
	Future (wader)	RME	1E-04	**3E+00**	sediment	(NC) - As
		CT	2E-05	1E+00		
CB-04	Current (wader)	RME	5E-05	1E+00		N/A
		CT	7E-06	5E-01		
	Future (wader)	RME	5E-05	1E+00		N/A
		CT	7E-06	5E-01		
CB-05	Current (wader)	RME	2E-05	6E-01		N/A
		CT	1E-05	5E-01		
	Future (wader)	RME	2E-05	6E-01		N/A
		CT	1E-05	5E-01		
CB-06	Current (wader)	RME	3E-05	1E+00		N/A
		CT	5E-06	5E-01		
	Future (wader)	RME	3E-05	1E+00		N/A
		CT	5E-06	5E-01		
CB-07	Current (wader)	RME	1E-05	3E-01		N/A
		CT	3E-06	2E-01		
	Future (wader)	RME	1E-05	3E-01		N/A
		CT	3E-06	2E-01		
16/TT-33	Current (wader)	RME	4E-05	1E+00		N/A
		CT	3E-06	2E-01		
	Future (wader)	RME	4E-05	1E+00		N/A
		CT	3E-06	2E-01		

TABLE 5-1
SUMMARY OF RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
09	Current (wader)	RME	9E-06	3E-01		N/A
		CT	6E-07	4E-02		
	Future (wader)	RME	9E-06	3E-01		N/A
		CT	6E-07	4E-02		
DA	Current (wader)	RME	6E-05	2E+00		N/A
		CT	4E-06	3E-01		
	Future (wader)	RME	6E-05	2E+00		N/A
		CT	4E-06	3E-01		
AM	Current (wader)	RME	8E-06	2E-01		N/A
		CT	2E-06	1E-01		
	Future (wader)	RME	8E-06	2E-01		N/A
		CT	2E-06	1E-01		
KF	Current (wader)	RME	2E-05	6E-01		N/A
		CT	2E-06	1E-01		
	Future (wader)	RME	2E-05	6E-01		N/A
		CT	2E-06	1E-01		
08	Current (wader)	RME	9E-06	2E-01		N/A
		CT	4E-07	3E-02		
	Future (wader)	RME	9E-06	2E-01		N/A
		CT	4E-07	3E-02		
07/DP	Current (wader)	RME	5E-05	1E+00		N/A
		CT	3E-06	2E-01		
	Future (wader)	RME	5E-05	1E+00		N/A
		CT	3E-06	2E-01		
LP	Current (wader)	RME	3E-05	6E-01		N/A
		CT	2E-06	1E-01		
	Future (wader)	RME	3E-05	6E-01		N/A
		CT	2E-06	1E-01		
AS	Current (wader)	RME	7E-06	2E-01		N/A
		CT	1E-06	1E-01		
	Future (wader)	RME	2E-05	7E-01		N/A
		CT	1E-06	1E-01		
06	Current (wader)	RME	N/A	1E-02		N/A
		CT	N/A	2E-03		
	Future (wader)	RME	N/A	1E-02		N/A
		CT	N/A	2E-03		
05	Current (wader)	RME	1E-05	2E-01		N/A
		CT	2E-07	2E-02		
	Future (wader)	RME	1E-05	2E-01		N/A
		CT	2E-07	2E-02		
AJRW	Current (wader)	RME	3E-05	5E-01		N/A
		CT	2E-06	1E-01		
	Future (wader)	RME	3E-05	5E-01		N/A
		CT	2E-06	1E-01		

TABLE 5-1
SUMMARY OF RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
04	Current (wader)	RME	7E-08	9E-03		N/A
		CT	3E-09	9E-04		
	Future (wader)	RME	7E-08	9E-03		N/A
		CT	3E-09	9E-04		
03	Current (wader)	RME	2E-05	4E-01		N/A
		CT	5E-07	4E-02		
	Future (wader)	RME	2E-05	4E-01		N/A
		CT	5E-07	4E-02		
02	Current (wader)	RME	7E-08	9E-03		N/A
		CT	3E-09	9E-04		
	Future (wader)	RME	7E-08	9E-03		N/A
		CT	3E-09	9E-04		
01	Current (swimmer)	RME	2E-06	6E-02		N/A
		CT	1E-07	1E-02		
	Future (swimmer)	RME	2E-06	6E-02		N/A
		CT	1E-07	1E-02		
Reach 3	Current Angler	RME	9E-06	9E-01		N/A
		CT	7E-07	3E-01		
	Future Angler	RME	9E-06	9E-01		N/A
		CT	7E-07	3E-01		
Reach 4/5	Current Angler	RME	3E-05	2E+00		N/A
		CT	2E-06	7E-01		
	Future Angler	RME	3E-05	2E+00		N/A
		CT	2E-06	7E-01		
Reach 6	Current Angler	RME	3E-05	1E+00		N/A
		CT	2E-06	5E-01		
	Future Angler	RME	3E-05	1E+00		N/A
		CT	2E-06	5E-01		

Notes
Bolded values exceed a cancer risk of 1E-04 or a target organ HI of 1.

HI - Hazard Index
RME - Reasonable Maximum Exposure
CT - Central Tendency Exposure
As - Arsenic
(C) - Carcinogenic Risk
(NC) - Noncarcinogenic Risk
NE - Not Evaluated
N/A - Not Applicable

TABLE 5-2
SUMMARY OF SURFACE WATER RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks		Total Noncancer Risks	
			1995	2001-2002*	1995	2001-2002*
NR	Current (wader)	RME	2E-07	1E-07	3E-02	8E-03
		CT	3E-08	2E-08	1E-02	4E-03
	Future (wader)	RME	4E-07	2E-07	6E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
14	Current (wader)	RME	2E-07	1E-07	3E-02	8E-03
		CT	3E-08	2E-08	1E-02	4E-03
	Future (wader)	RME	4E-07	2E-07	6E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
22/TT-22	Current (wader)	RME	2E-07	1E-07	3E-02	8E-03
		CT	3E-08	2E-08	1E-02	4E-03
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
13/TT-27	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
WH	Current (wader)	RME	2E-07	1E-07	3E-02	8E-03
		CT	3E-08	2E-08	1E-02	4E-03
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
NT-1	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
NT-2	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
NT-3	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
WG	Current (wader)	RME	2E-07	1E-07	3E-02	8E-03
		CT	3E-08	2E-08	1E-02	4E-03
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
WW	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03
JY	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	7E-07	3E-07	8E-02	2E-02
		CT	3E-08	2E-08	1E-02	4E-03

TABLE 5-2
SUMMARY OF SURFACE WATER RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks		Total Noncancer Risks	
			1995	2001-2002*	1995	2001-2002*
WS/WSS	Current (wader)	RME	9E-07	4E-07	1E-01	3E-02
		CT	1E-07	5E-08	4E-02	1E-02
	Future (wader)	RME	9E-07	4E-07	1E-01	3E-02
		CT	1E-07	5E-08	4E-02	1E-02
TT-30	Current (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
TT-31	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
CB-01	Current (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
	Future (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
CB-02	Current (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
	Future (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
CB-03	Current (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
	Future (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
CB-04	Current (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
	Future (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
CB-05	Current (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
	Future (wader)	RME	NE	NE	NE	NE
		CT	NE	NE	NE	NE
CB-06	Current (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
	Future (wader)	RME	6E-07	4E-07	5E-02	3E-02
		CT	8E-08	5E-08	2E-02	1E-02
CB-07	Current (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
16/TT-33	Current (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03

TABLE 5-2
SUMMARY OF SURFACE WATER RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks		Total Noncancer Risks	
			1995	2001-2002*	1995	2001-2002*
09	Current (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
DA	Current (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	5E-07	3E-07	3E-02	2E-02
		CT	3E-08	2E-08	5E-03	4E-03
AM	Current (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
	Future (wader)	RME	2E-07	1E-07	1E-02	8E-03
		CT	3E-08	2E-08	5E-03	4E-03
KF	Current (wader)	RME	1E-07	3E-07	8E-03	2E-02
		CT	5E-09	2E-08	1E-03	4E-03
	Future (wader)	RME	1E-07	3E-07	8E-03	2E-02
		CT	5E-09	2E-08	1E-03	4E-03
08	Current (wader)	RME	1E-07	3E-07	8E-03	2E-02
		CT	5E-09	2E-08	1E-03	4E-03
	Future (wader)	RME	1E-07	3E-07	8E-03	2E-02
		CT	5E-09	2E-08	1E-03	4E-03
07/DP	Current (wader)	RME	N/A	2E-07	1E-02	2E-02
		CT	N/A	1E-08	2E-03	3E-03
	Future (wader)	RME	N/A	2E-07	1E-02	2E-02
		CT	N/A	1E-08	2E-03	3E-03
LP	Current (wader)	RME	N/A	2E-07	1E-02	2E-02
		CT	N/A	1E-08	2E-03	3E-03
	Future (wader)	RME	N/A	2E-07	1E-02	2E-02
		CT	N/A	1E-08	2E-03	3E-03
AS	Current (wader)	RME	N/A	7E-08	4E-03	6E-03
		CT	N/A	1E-08	2E-03	3E-03
	Future (wader)	RME	N/A	2E-07	1E-02	2E-02
		CT	N/A	1E-08	2E-03	3E-03
06	Current (wader)	RME	N/A	9E-08	1E-02	7E-03
		CT	N/A	5E-09	2E-03	1E-03
	Future (wader)	RME	N/A	9E-08	1E-02	7E-03
		CT	N/A	5E-09	2E-03	1E-03
05	Current (wader)	RME	9E-07	6E-08	6E-03	5E-03
		CT	6E-08	3E-09	1E-03	8E-04
	Future (wader)	RME	9E-07	6E-08	6E-03	5E-03
		CT	6E-08	3E-09	1E-03	8E-04

TABLE 5-2
SUMMARY OF SURFACE WATER RECEPTOR RISKS - RECREATIONAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
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Station	Scenario/Receptor (Recreational User)	RME or CT	Total Cancer Risks		Total Noncancer Risks	
			1995	2001-2002*	1995	2001-2002*
AJRW	Current (wader)	RME	9E-07	6E-08	6E-03	5E-03
		CT	6E-08	3E-09	1E-03	8E-04
	Future (wader)	RME	9E-07	6E-08	6E-03	5E-03
		CT	6E-08	3E-09	1E-03	8E-04
04	Current (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
	Future (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
03	Current (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
	Future (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
02	Current (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
	Future (wader)	RME	7E-08	4E-08	9E-03	1E-03
		CT	3E-09	2E-09	9E-04	2E-04
01	Current (swimmer)	RME	3E-07	2E-07	8E-03	3E-03
		CT	7E-09	4E-09	5E-04	2E-04
	Future (swimmer)	RME	3E-07	2E-07	8E-03	3E-03
		CT	7E-09	4E-09	5E-04	2E-04

Notes

Bolded values exceed a cancer risk of 1E-04 or a target organ HI of 1.

* Refer to Section 3.2.2.1 for discussion of the assignment of surface water samples to exposure stations.

HI - Hazard Index
RME - Reasonable Maximum Exposure
CT - Central Tendency Exposure

(C) - Carcinogenic Risk
(NC) - Noncarcinogenic Risk
NE - Not Evaluated
N/A - Not Applicable

TABLE 5-3
SUMMARY OF RECEPTOR RISKS - SEDIMENT CORES
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
SC05	Future	RME	3E-05	**3E+00**	sediment	(NC) - As
	Dredger	CT	5E-06	1E+00		
SC06	Future	RME	6E-05	**5E+00**	sediment	(NC) - As
	Dredger	CT	7E-06	1E+00		
SC07	Future	RME	1E-05	1E+00		N/A
	Dredger	CT	3E-06	7E-01		
SC08	Future	RME	4E-05	**4E+00**	sediment	(NC) - As
	Dredger	CT	3E-06	5E-01		
SC09	Future	RME	3E-06	3E-01		N/A
	Dredger	CT	4E-07	7E-02		
SC10	Future	RME	2E-06	2E-01		N/A
	Dredger	CT	5E-07	8E-02		
SC11	Future	RME	4E-06	5E-01		N/A
	Dredger	CT	9E-07	2E-01		
SC12	Future	RME	4E-06	6E-01		N/A
	Dredger	CT	1E-06	3E-01		
SC13	Future	RME	4E-06	5E-01		N/A
	Dredger	CT	1E-06	2E-01		

Notes
Bolded values exceed a cancer risk of 1E-04 or a target organ HI of 1.

HI - Hazard Index
RME - Reasonable Maximum Exposure
CT - Central Tendency Exposure
As - Arsenic
(C) - Carcinogenic Risk
(NC) - Noncarcinogenic Risk
NE - Not Evaluated
N/A - Not Applicable

TABLE 5-4
SUMMARY OF RECEPTOR RISKS - RESIDENTIAL SCENARIO
HUMAN HEALTH RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Station	Scenario/Receptor	RME or CT	Total Cancer Risks	Total Noncancer Risks	Media > 1E-04 or HI > 1	Major contributors to risk (> 1E-06, HI > 1)
WS/WSS	Current/Future Area Resident	RME	1E-05	5E-01		N/A
		CT	8E-06	5E-01		
CB-05	Current/Future Area Resident	RME	7E-05	2E+00		N/A
		CT	5E-05	2E+00		
KF	Current/Future Area Resident	RME	5E-05	1E+00		N/A
		CT	9E-06	8E-01		
07/DP	Current/Future Area Resident	RME	5E-05	2E+00		N/A
		CT	9E-06	1E+00		
AJRW	Current/Future Area Resident	RME	7E-05	2E+00		N/A
		CT	1E-05	9E-01		
SW-05	Current/Future Area Resident	RME	1E-07	1E-02		N/A
		CT	1E-08	3E-03		
SW-06	Current/Future Area Resident	RME	2E-07	2E-02		N/A
		CT	1E-08	4E-03		
SW-07	Current/Future Area Resident	RME	1E-07	8E-03		N/A
		CT	8E-09	2E-03		
SW-08	Current/Future Area Resident	RME	2E-07	4E-02		N/A
		CT	2E-08	9E-03		
SW-09	Current/Future Area Resident	RME	3E-08	9E-04		N/A
		CT	2E-09	2E-04		
SW-10	Current/Future Area Resident	RME	1E-08	2E-04		N/A
		CT	1E-09	5E-05		

Notes
Bolded values exceed a cancer risk of 1E-04 or a target organ HI of 1.

HI - Hazard Index
RME - Reasonable Maximum Exposure
CT - Central Tendency Exposure
As - Arsenic
(C) - Carcinogenic Risk
(NC) - Noncarcinogenic Risk
NE - Not Evaluated
N/A - Not Applicable

TABLE 5-5
SUMMARY OF RECEPTOR RISKS
ECOLOGICAL RISK ASSESSMENT
WELLS G&H SUPERFUND SITE OU3

Assessment Endpoints	Receptor Species	Exposure Area	Risk Summary
Sustainability (survival, growth, reproduction) of local populations of populations of piscivorus birds	green heron	- site-wide	No risk from dietary exposure from any COPC
Sustainability (survival, growth, reproduction) of local populations of waterfowl	mallard duck	- 38-acre wetland[1] - site-wide	Chromium - Low risk to populations, 4 stations in reach 1, 1 in reach 2 above upper TEL[2] Lead - Low risk to populations, 3 stations in reach 1 above upper TEL Mercury - Low risk to populations, 1 station in reach 2 above upper TEL
Sustainability (survival, growth, reproduction) of local populations of omnivorous, semi-aquatic mammals	muskrat	- by station	Arsenic - High risk to populations in reach 1, upper TEL = 150 mg/kg in sediment Chromium - Low risk to populations, 3 stations in reach 1 above upper TEL Copper - Low risk to populations, 9 stations in reach 1, 1 in reach 2 above upper TEL Lead - Low risk to populations, 1 station in reach 1 above upper TEL Mercury - Low risk to populations, 5 in reach 1, 1 in reach 2 above upper TEL
Sustainability (survival, growth, reproduction) of local populations of small terrestrial mammals	shrew	- by station	Arsenic - Low risk to populations, 2 stations in reach 1, 1 in reach 2 above upper TEL
Sustainability (survival, growth, reproduction) of local populations of predatory fish	largemouth bass	- by reach	No risk from exposure to any COPCs
Sustainability (survival, growth, reproduction) of local populations of bottom-feeding fish	white sucker	- by reach	No risk from exposure to any COPCs
Sustainability (survival, growth, reproduction) of local populations of small forage fish	pumpkinseed	- by reach	No risk from exposure to any COPCs
Sustainability (survival, growth, reproduction) of local populations of benthic invertebrates	sediment benchmarks	- by reach	Exceedences of SELs[3] for arsenic, chromium, copper, lead, mercury and zinc. Highest risk from arsenic and chromium in reach 1
	crayfish tissue	- by reach	No risk to crayfish from exposure to any COPCs
	H. azteca & *C. tentans*	- 15 triad stations	Evidence for chronic toxicity associated with arsenic concentration in sediment above TEL of 220 mg/kg
	benthic community composition	- 15 triad stations	Evidence for community impairment associated with arsenic concentration in sediment above TEL of 220 mg/kg

[1] The 38-acre wetland corresponds to the area of Reach 1
[2] TEL - Threshold Effects Level
[3] SEL - Severe Effects Level