

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
<u>GROUNDWATER SAMPLES</u>								
PDS400A-1	1	4/14/2005	755	<25.0	<25.0	379 H	<25.0	<25.0
PDS400A-2	2	4/14/2005	755	<2.5	<2.5	471 H	<2.5	<2.5
PDS400B-1	1	4/14/2005	755	<2.5	<2.5	458 H	<2.5	<2.5
PDS400B-2	2	4/14/2005	755	<2.5	<2.5	464 H	<2.5	<2.5
PDS401A-1	1	4/14/2005	730	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401A-2	2	4/14/2005	730	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-1	1	4/14/2005	730	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-2	2	4/14/2005	730	<25.0	<25.0	<25.0	<25.0	<25.0
PDS402A-1	1	4/14/2005	735	<25.0	<25.0	<25.0	<25.0	<25.0
PDS403A-1	1	4/14/2005	740	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-1	1	4/14/2005	745	<25.0	<25.0	61.3 H	<25.0	<25.0
PDS404A-2	2	4/14/2005	745	<2.5	<2.5	63.4 H	<2.5	<2.5
PDS405A-1	1	4/14/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PDS405A-2	2	4/14/2005	--	<3.6	<3.6	54.7 H	<3.6	<3.6
PDS406A-1	1	4/14/2005	--	<3.6	<3.6	51.3	<3.6	<3.6
PDS406A-2	2	4/14/2005	842	<1.7	<1.7	60.3 H	<1.7	<1.7
PDS407A-1	1	4/14/2005	839	<3.6	<3.6	7.2	<3.6	<3.6
PDS407A-2	2	4/14/2005	939	<0.5	<0.5	6.8 H	<0.5	<0.5
PDS408A-1	1	4/14/2005	835	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	1	4/14/2005	835	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	2	4/14/2005	835	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	1	4/14/2005	845	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	2	4/14/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	1	4/14/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	1	4/14/2005	849	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	2	4/14/2005	849	<0.5	<0.5	<0.5	<0.5	<0.5
PDS411A-1	1	4/14/2005	853	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	2	4/14/2005	853	<0.5	<0.5	<0.5	<0.5	<0.5
PDS413A-1	1	4/14/2005	903	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	2	4/14/2005	903	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	1	4/14/2005	820	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	1	4/14/2005	820	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415B-2	2	4/14/2005	820	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	1	4/14/2005	827	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	2	4/14/2005	827	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	1	4/14/2005	833	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	2	4/14/2005	833	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	2	4/14/2005	943	<0.5	<0.5	95.4 H	<0.5	<0.5
PDS420A-1	1	4/14/2005	943	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	1	4/14/2005	942	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-2	2	4/14/2005	942	<10.0	<10.0	<10.0	<10.0	<10.0
PDS422A-1	1	4/14/2005	938	<50.0	<50.0	288	<50.0	<50.0
PDS422A-2	2	4/14/2005	938	<10.0	<10.0	298 H	<10.0	<10.0
PDS423A-1	1	4/14/2005	931	<50.0	<50.0	<50.0	<50.0	<50.0
PDS423A-2	2	4/14/2005	931	<10.0	<10.0	<10.0	<10.0	<10.0
PDS424A-1	1	4/14/2005	925	<50.0	<50.0	85.8	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	866	<25.0
PDS400A-2	<2.5	18.5	<2.5	5.9	<2.5	<2.5	1,000	<2.5
PDS400B-1	<2.5	14.3	<2.5	5.4	<2.5	<2.5	1,020	<2.5
PDS400B-2	<2.5	17.2	<2.5	6.1	<2.5	<2.5	1,040	<2.5
PDS401A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5,380
PDS401A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5,600
PDS401B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5,320
PDS401B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5,720
PDS402A-1	<25.0	<25.0	31.3	<25.0	<25.0	<25.0	<25.0	5,430
PDS403A-1	<25.0	<25.0	74.2	<25.0	<25.0	<25.0	43.0	4,950
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	87.5	111
PDS404A-2	<2.5	8.5	<2.5	2.8	<2.5	<2.5	95.9	112
PDS405A-1	<50.0	<50.0	<50.0	39.5	<50.0	<50.0	1,150	93.8
PDS405A-2	<3.6	12.2	<3.6	40.1	<3.6	<3.6	1,300	125
PDS406A-1	<3.6	<3.6	<3.6	10.3	<3.6	<3.6	536	16.8
PDS406A-2	<1.7	2.2	<1.7	9.6	<1.7	<1.7	500	18.9
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	94.8	4.3
PDS407A-2	<0.5	2.0	<0.5	2.9	<0.5	<0.5	81.8	4.1
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	69.9
PDS411A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	64.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	2.0	1.3	<0.5	117	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	114	<50.0
PDS421A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,820
PDS421A-2	<10.0	<10.0	23.8	<10.0	<10.0	<10.0	10.8	4,160
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,760	<50.0
PDS422A-2	<10.0	12.6	<10.0	43.3	<10.0	<10.0	3,770	10.1
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,870
PDS423A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	36.5	1,950
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	446	280

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	3.2	<2.5	11.9	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	3.1	<2.5	10.4	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	3.0	<2.5	10.7	<2.5
PDS401A-1	<25.0	<25.0	<25.0	7,730	<25.0	<25.0	142	<25.0
PDS401A-2	<25.0	<25.0	<25.0	8,210	<25.0	<25.0	145	<25.0
PDS401B-1	<25.0	<25.0	<25.0	7,840	<25.0	<25.0	146	<25.0
PDS401B-2	<25.0	<25.0	<25.0	8,310	<25.0	<25.0	141	<25.0
PDS402A-1	<25.0	<25.0	<25.0	903	<25.0	<25.0	932	<25.0
PDS403A-1	<25.0	<25.0	<25.0	2,960	<25.0	<25.0	1,280	<25.0
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	919	<25.0
PDS404A-2	<2.5	<2.5	<2.5	6.2	<2.5	<2.5	1,040	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,170	<50.0
PDS405A-2	<3.6	<3.6	<3.6	40.9	<3.6	<3.6	1,600	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	63.5	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	1.9	2.8	66.8	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	50.0	<3.6
PDS407A-2	<0.5	<0.5	<0.5	0.6	0.8	0.6	47.5	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	0.6	0.7	0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	27.2	<3.6	<3.6	5.9	<3.6
PDS411A-2	<0.5	<0.5	<0.5	26.7	<0.5	<0.5	5.2	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	2.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	2.7	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	1.4	1.1	5.4	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	<50.0	1,710	<50.0	<50.0	453	<50.0
PDS421A-2	<10.0	<10.0	<10.0	1,950	<10.0	<10.0	473	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	29.2	<10.0
PDS423A-1	<50.0	<50.0	<50.0	145	<50.0	<50.0	2,350	<50.0
PDS423A-2	<10.0	<10.0	<10.0	153	<10.0	<10.0	2,410	<10.0
PDS424A-1	<50.0	<50.0	<50.0	23.5	<50.0	<50.0	347	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS401A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,540	<25.0
PDS401A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,600	<25.0
PDS401B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,470	<25.0
PDS401B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,530	<25.0
PDS402A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	3,400	<25.0
PDS403A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,790	<25.0
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	32.1	<25.0
PDS404A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	27.4	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	136	<50.0
PDS405A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	143	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	17.4	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	17.1	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	50.1	<3.6
PDS407A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	44.7	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	6.4	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	5.7	<0.5	<0.5	<0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,040	<50.0
PDS421A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,030	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	388	<50.0
PDS423A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	374	<10.0
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	53.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo-chloro-methane (µg/L)	1,2-Dibromo-ethane (µg/L)	Chloro-benzene (µg/L)	1,1,1,2-Tetrachloro-ethane (µg/L)	Ethyl benzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS401A-1	<25.0	<25.0	<25.0	29.2	<25.0	<25.0	<25.0	<25.0
PDS401A-2	<25.0	<25.0	<25.0	28.9	<25.0	<25.0	<25.0	<25.0
PDS401B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-2	<25.0	<25.0	<25.0	26.3	<25.0	<25.0	<25.0	<25.0
PDS402A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS403A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS405A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS407A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-2	<10.0	<10.0	<10.0	13.8	<10.0	<10.0	<10.0	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS423A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS401A-1	<25.0	<25.0	<25.0	93.0	<25.0	117 H	<25.0	<25.0
PDS401A-2	<25.0	<25.0	<25.0	78.6	<25.0	107 H	<25.0	<25.0
PDS401B-1	<25.0	<25.0	<25.0	84.0	<25.0	109 H	<25.0	<25.0
PDS401B-2	<25.0	<25.0	<25.0	66.1	<25.0	119 H	<25.0	<25.0
PDS402A-1	<25.0	<25.0	<25.0	85.9	<25.0	27.7 H	<25.0	<25.0
PDS403A-1	<25.0	<25.0	<25.0	71.2	<25.0	61.2 H	<25.0	<25.0
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-2	<2.5	<2.5	<2.5	16.8	<2.5	13.1 H	<2.5	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS405A-2	<3.6	<3.6	<3.6	16.9	<3.6	<3.6 H	<3.6	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS407A-2	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	<0.5	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	<50.0	57.7	<50.0	58.3 H	<50.0	<50.0
PDS421A-2	<10.0	<10.0	<10.0	54.6	<10.0	61.3 H	<10.0	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	15.1	<10.0	<10.0	<10.0	<10.0
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS423A-2	<10.0	<10.0	<10.0	43.4	<10.0	13.2 H	<10.0	<10.0
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS401A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS402A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS403A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS405A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS407A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS423A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butylbenzene (µg/L)	1,2-Dichlorobenzene (µg/L)	Hexachloroethane (µg/L)	1,2-Dibromo-3-chloropropane (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachlorobutadiene (µg/L)	Naphthalene (µg/L)	1,2,3-Trichlorobenzene (µg/L)
PDS400A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS400A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS400B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS401A-1	<25.0	<25.0	362	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401A-2	<25.0	<25.0	368	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-1	<25.0	<25.0	332	<25.0	<25.0	<25.0	<25.0	<25.0
PDS401B-2	<25.0	<25.0	356	<25.0	<25.0	<25.0	<25.0	<25.0
PDS402A-1	<25.0	<25.0	44.1	<25.0	<25.0	<25.0	<25.0	<25.0
PDS403A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-1	<25.0	<25.0	41.6	<25.0	<25.0	<25.0	<25.0	<25.0
PDS404A-2	<2.5	<2.5	55.6	<2.5	<2.5	<2.5	<2.5	<2.5
PDS405A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS405A-2	<3.6	<3.6	7.8	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS406A-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PDS407A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS407A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS408B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS408B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS409A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS409B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS410A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS410A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS411A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS411A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS413A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS413A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS415B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS415B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS416A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS416A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS417A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS417A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS420A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-1	<50.0	<50.0	107 H	<50.0	<50.0	<50.0	<50.0	<50.0
PDS421A-2	<10.0	<10.0	129	<10.0	<10.0	<10.0	<10.0	<10.0
PDS422A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS422A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS423A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS423A-2	<10.0	<10.0	14.9	<10.0	<10.0	<10.0	<10.0	<10.0
PDS424A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PDS424A-2	2	4/14/2005	925	<1.0	<1.0	86.4 H	<1.0	<1.0
PDS425A-1	1	4/14/2005	916	<50.0	<50.0	109	<50.0	<50.0
PDS425A-2	2	4/14/2005	916	<2.5	<2.5	106 H	<2.5	<2.5
PDS426A-1	1	4/14/2005	946	<25.0	<25.0	47.1	<25.0	<25.0
PDS426A-2	2	4/14/2005	946	<3.6	<3.6	38.8 H	<3.6	<3.6
PDS427A-1	1	4/14/2005	935	<25.0	<25.0	88.3	<25.0	<25.0
PDS427A-2	2	4/14/2005	935	<0.5	<0.5	95.9 H	<0.5	<0.5
PDS428A-1	1	4/14/2005	928	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	2	4/14/2005	928	<2.5	<2.5	9.9 H	<2.5	<2.5
PDS429A-1	1	4/14/2005	920	<10.0	<10.0	153	<10.0	<10.0
PDS430A-1	1	4/14/2005	909	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	1	4/14/2005	906	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	2	4/14/2005	906	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	1	4/14/2005	858	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	2	4/14/2005	858	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	1	4/14/2005	903	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-2	2	4/14/2005	903	<0.5	<0.5	<0.5	<0.5	<0.5
<u>SURFACE WATER SAMPLE</u>								
SWDS428	1	4/14/2005	951	<0.5	<0.5	<0.5	<0.5	<0.5
<u>GROUND WATER SAMPLES</u>								
PTB1C-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2C-1	1	3/9/2005	--	<1.7	8.4	<1.7	<1.7	<1.7
PTB4B-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4C-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	1	3/9/2005	--	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	1	3/9/2005	--	<2.5	4.6	2.5	<2.5	<2.5
PTB6C-1	1	3/9/2005	--	<1.7	2.8	<1.7 H	<1.7	<1.7
PTB7B-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8C-1	1	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB9C-1	1MA	3/9/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	1MA	3/10/2005	1127	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	1MA	3/10/2005	1127	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	2MA	3/10/2005	1127	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-2	2MA	3/10/2005	1127	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	1	3/10/2005	1145	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	1MA	3/18/2005	1050	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	2	3/18/2005	1050	<2.5	<2.5	<2.5	<2.5	<2.5
PTN3-1	1	3/10/2005	1035	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	1	3/10/2005	1133	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	1	3/10/2005	1120	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	2	3/10/2005	1120	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-1	1	3/21/2005	1135	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	2	3/21/2005	1135	<50.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	1	3/10/2005	1054	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-2	2	3/10/2005	1054	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro-fluoro-methane (µg/L)	1,1-Dichloro-ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,1-Dichloro-ethane (µg/L)	2,2-Dichloro-propane (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	Chloroform (µg/L)
PDS424A-2	<1.0	3.6	2.4	9.5	<1.0	<1.0	476	287
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,010	<50.0
PDS425A-2	<2.5	5.0	<2.5	19.2	<2.5	<2.5	1,200	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	269	489
PDS426A-2	<3.6	5.4	11.7	15.5	<3.6	<3.6	305	544
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	162	<25.0
PDS427A-2	<0.5	<0.5	<0.5	3.8	1.4	<0.5	159	2.6
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	880	<25.0
PDS428A-2	<2.5	4.1	<2.5	23.0	<2.5	<2.5	1,020	8.7
PDS429A-1	<10.0	13.2	<10.0	11.6	<10.0	<10.0	985	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	445	<10.0	<10.0	<10.0	19.0	535
PTB2C-1	<1.7	<1.7	510	<1.7	<1.7	<1.7	<1.7	56.8
PTB4B-1	<10.0	<10.0	216	<10.0	<10.0	<10.0	<10.0	1,250
PTB4C-1	<10.0	<10.0	742	<10.0	<10.0	<10.0	10.0	2,490
PTB5B-1	<0.5	<0.5	122	<0.5	<0.5	<0.5	<0.5	9.6
PTB5C-1	<2.5	<2.5	592	<2.5	<2.5	<2.5	<2.5	115
PTB6C-1	<1.7	<1.7	409	<1.7	<1.7	<1.7	2.6	169
PTB7B-1	<10.0	<10.0	718	<10.0	<10.0	<10.0	16.8	2,630
PTB7C-1	<10.0	11.6	888	<10.0	<10.0	<10.0	23.7	4,010
PTB8C-1	<10.0	<10.0	777	<10.0	<10.0	<10.0	<10.0	491
PTB9C-1	<10.0	<10.0	375	<10.0	<10.0	<10.0	<10.0	55.6
PTN1-1	<10.0	<10.0	134	<10.0	<10.0	<10.0	<10.0	>5,000
PTN1-1	<50.0	<50.0	133	<50.0	<50.0	<50.0	<50.0	9,190
PTN1-2	<10.0	<10.0	125	<10.0	<10.0	<10.0	<10.0	>5,000
PTN1-2	<50.0	<50.0	139	<50.0	<50.0	<50.0	<50.0	9,330
PTN2-1	<25.0	<25.0	241	<25.0	<25.0	<25.0	56.1	5,180
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	858
PTN2-2	<2.5	<2.5	146	<2.5	<2.5	<2.5	23.4	>1,250
PTN3-1	<10.0	<10.0	656	<10.0	<10.0	<10.0	30.2	4,540
PTN4-1	<50.0	<50.0	219	<50.0	<50.0	<50.0	<50.0	11,800
PTN5-1	<25.0	<25.0	114	<25.0	<25.0	<25.0	<25.0	3,750
PTN5-2	<25.0	<25.0	111	<25.0	<25.0	<25.0	<25.0	4,000
PTN5-1	<25.0	<25.0	252	<25.0	<25.0	<25.0	<25.0	8,630
PTN5-2	<25.0	<25.0	223	<25.0	<25.0	<25.0	<25.0	8,270
PTN6-1	<10.0	<10.0	179	<10.0	<10.0	<10.0	<10.0	>5,000
PTN6-2	<50.0	<50.0	171	<50.0	<50.0	<50.0	<50.0	5,190

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PDS424A-2	<1.0	<1.0	<1.0	74.7	2.5	<1.0	352	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	182	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	193	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,390	<25.0
PDS426A-2	<3.6	<3.6	<3.6	7.3	<3.6	<3.6	1,570	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	<0.5	2.9	0.9	1.9	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	29.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	4.1	<2.5	29.9	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	30.3	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.6	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.7	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.8	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	21.0 H	<10.0
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.0 V	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	36.0	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	94.9 H	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9 V	<0.5
PTB5C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	4.8 H	<2.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	356	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	677	<10.0
PTB8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	26.3 H	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<10.0	<10.0	<10.0	3,860	<10.0	11.9	159	<10.0
PTN1-1	<50.0	<50.0	<50.0	3,520	<50.0	<50.0	183	<50.0
PTN1-2	<10.0	<10.0	<10.0	3,810	<10.0	11.6	147	<10.0
PTN1-2	<50.0	<50.0	<50.0	3,560	<50.0	<50.0	183	<50.0
PTN2-1	<25.0	<25.0	<25.0	485	<25.0	<25.0	379	<25.0
PTN2-1	<50.0	<50.0	<50.0	73.8	<50.0	<50.0	70.7	<50.0
PTN2-2	<2.5	<2.5	<2.5	451	<2.5	5.8	152	<2.5
PTN3-1	<10.0	<10.0	<10.0	430	<10.0	<10.0	601	<10.0
PTN4-1	<50.0	<50.0	<50.0	10,800	<50.0	<50.0	125	<50.0
PTN5-1	<25.0	<25.0	<25.0	62.9	<25.0	<25.0	338	<25.0
PTN5-2	<25.0	<25.0	<25.0	66.5	<25.0	<25.0	315	<25.0
PTN5-1	<25.0	<25.0	<25.0	321	<25.0	<25.0	712	<25.0
PTN5-2	<25.0	<25.0	<25.0	302	<25.0	<25.0	670	<25.0
PTN6-1	<10.0	<10.0	<10.0	> 5,000	<10.0	<10.0	108	<10.0
PTN6-2	<50.0	<50.0	<50.0	7,690	<50.0	<50.0	170	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PDS424A-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	48.9	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	60.6	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	50.8	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS426A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	5.7	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS430A-1	<0.5	<0.5	<0.5	12.8	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	44.3	<0.5	<0.5	<0.5	<0.5
PDS433A-2	<0.5	<0.5	<0.5	45.7	<0.5	<0.5	<0.5	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 V	<10.0
PTB2C-1	<1.7	<1.7	<1.7	3.6	<1.7	<1.7	2.8 H	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0 H	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	89.7	<10.0
PTB5B-1	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	0.8 V	<0.5
PTB5C-1	<2.5	<2.5	<2.5	8.0	<2.5	<2.5	3.2 H	<2.5
PTB6C-1	<1.7	<1.7	<1.7	22.6	<1.7	<1.7	3.4 V	<1.7
PTB7B-1	<10.0	<10.0	<10.0	10.5	<10.0	<10.0	261	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	611	<10.0
PTB8C-1	<10.0	<10.0	<10.0	15.2	<10.0	<10.0	17.6 V	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	20.8 H	<10.0
PTN1-1	<10.0	<10.0	<10.0	<10.0	<10.0	15.4	750	<10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	713	<50.0
PTN1-2	<10.0	<10.0	<10.0	<10.0	<10.0	10.3	748	<10.0
PTN1-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	705	<50.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,420	<25.0
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	161	<50.0
PTN2-2	<2.5	<2.5	<2.5	<2.5	<2.5	6.1	530	<2.5
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,480	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,700	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	973	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	861	<25.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,920	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,780	<25.0
PTN6-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,080	<10.0
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	957	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PDS424A-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS426A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<10.0	<10.0	<10.0	17.5	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<10.0	<10.0	<10.0	16.3	<10.0	<10.0	<10.0	<10.0
PTN1-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<2.5	<2.5	<2.5	7.4	<2.5	<2.5	<2.5	<2.5
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<10.0	<10.0	<10.0	19.1	<10.0	<10.0	<10.0	<10.0
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropylbenzene (µg/L)	Bromobenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	n-Propylbenzene (µg/L)	Pentachloroethane (µg/L)	2-Chlorotoluene (µg/L)	1,2,3-Trichloropropane (µg/L)
PDS424A-2	<1.0	<1.0	<1.0	7.5	<1.0	7.2 H	<1.0	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS426A-1	<25.0	<25.0	<25.0	38.9	<25.0	<25.0	<25.0	<25.0
PDS426A-2	<3.6	<3.6	<3.6	30.4	<3.6	4.0 H	<3.6	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<3.4	<1.7	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	0.6	<0.5	<1.0	<0.5	<0.5
PTB5C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<3.4	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	13.2	<10.0	<20.0	<10.0	<10.0
PTB8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTN1-1	<10.0	<10.0	<10.0	57.8	<10.0	52.0 H	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0	67.1	<50.0	50.1 H	<50.0	<50.0
PTN1-2	<10.0	<10.0	<10.0	54.5	<10.0	50.0 H	<10.0	<10.0
PTN1-2	<50.0	<50.0	<50.0	66.2	<50.0	52.8 H	<50.0	<50.0
PTN2-1	<25.0	<25.0	<25.0	51.8	<25.0	25.0 H	<25.0	<25.0
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<2.5	<2.5	<2.5	34.6	<2.5	13.3	<2.5	<2.5
PTN3-1	<10.0	<10.0	<10.0	54.6	<10.0	13.9 H	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	59.1	<50.0	150 H	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	35.2	<25.0	<50.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	34.2	<25.0	<50.0	<25.0	<25.0
PTN5-1	<25.0	<25.0	<25.0	73.4	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<10.0	<10.0	<10.0	52.1	<10.0	99.5 H	<10.0	<10.0
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	96.5 H	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PDS424A-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS426A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PDS424A-2	<1.0	<1.0	14.0	<1.0	<1.0	<1.0	<1.0	<1.0
PDS425A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PDS425A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS426A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS426A-2	<3.6	<3.6	5.2	<3.6	<3.6	<3.6	<3.6	<3.6
PDS427A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS427A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS428A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PDS428A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PDS429A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PDS430A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS431A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS432A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PDS433A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SWDS428	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB4B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB9C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<10.0	<10.0	126 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	132 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<10.0	<10.0	138 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-2	<50.0	<50.0	133 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<25.0	<25.0	28.6 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<2.5	<2.5	14.0	<2.5	<2.5	<2.5	<2.5	<2.5
PTN3-1	<10.0	<10.0	14.2 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	894 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<10.0	<10.0	609 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-2	<50.0	<50.0	531 H	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTN7-1	1	3/10/2005	1115	<25.0	<25.0	<25.0	<25.0	<25.0
PTN7-2	2	3/10/2005	1115	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	1	3/10/2005	1050	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-2	2	3/10/2005	1050	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	1	3/18/2005	1130	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	2	3/18/2005	1130	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	1	3/10/2005	1047	<10.0	<10.0	<10.0	<10.0	<10.0
PTN9-2	2	3/10/2005	1047	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	1	3/22/2005	1300	<20.0	<10.0	<10.0	<10.0	<10.0
PTC1A-2	2	3/22/2005	1300	<20.0	<10.0	<10.0	<10.0	<10.0
PTC1B-1	1MA	3/24/2005	935	<5.0	<2.5	<2.5	<2.5	<2.5
PTC1B-1	1MA	3/24/2005	935	<50.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	2MA	3/24/2005	935	<5.0	<2.5	<2.5	<2.5	<2.5
PTC1B-2	2MA	3/24/2005	935	<50.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	1	3/22/2005	1440	<100	<50.0	<50.0	<50.0	<50.0
PTC1E-2	1	3/21/2005	1100	<20.0	<10.0	<10.0	<10.0	<10.0
PTC2A-1	1	3/17/2005	1440	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-2	2	3/17/2005	1440	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	1	3/18/2005	1045	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	2	3/18/2005	1045	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	1	3/18/2005	1120	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	2	3/18/2005	1120	<0.5	3.2	<0.5	<0.5	<0.5
PTC3A-1	1	3/16/2005	1250	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3A-2	2	3/16/2005	1250	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	1	3/16/2005	1310	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	1	3/16/2005	1325	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	2MA	3/16/2005	1325	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	2MA	3/16/2005	1325	<100	<100	<100	<100	<100
PTC4A-1	1	3/17/2005	1505	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	1	3/14/2005	1610	<25.0	<25.0	<25.0	<25.0	<25.0
PTC4B-2	2	3/14/2005	1610	<0.5	<0.5	<0.5	<0.5	<0.5
PTC4B-1	1	3/17/2005	1520	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	2	3/17/2005	1520	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	1	3/17/2005	1545	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-2	2	3/17/2005	1545	<100	<100	<100	<100	<100
PTC5A-1	1	3/21/2005	1300	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5B-1	1	3/21/2005	1330	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	1MA	3/22/2005	915	<2.0	<1.0	<1.0	<1.0	<1.0
PTC5C-1	1MA	3/22/2005	915	<100	<50.0	<50.0	<50.0	<50.0
PTC5C-2	2MA	3/22/2005	915	<100	<50.0	<50.0	<50.0	<50.0
PTC5C-2	2MA	3/22/2005	915	<2.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	1	3/16/2005	1300	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	2MA	3/16/2005	1315	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	2MA	3/16/2005	1315	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	1	3/16/2005	1330	<1.7	<1.7	<1.7	<1.7	<1.7
PTC6D-1	1	3/17/2005	1050	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-2	2	3/21/2005	1230	<20.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro-fluoro-methane (µg/L)	1,1-Dichloro-ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,1-Dichloro-ethane (µg/L)	2,2-Dichloro-propane (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	Chloroform (µg/L)
PTN7-1	<25.0	<25.0	1,020	<25.0	<25.0	<25.0	<25.0	7,890
PTN7-2	<25.0	<25.0	1,120	<25.0	<25.0	<25.0	<25.0	7,740
PTN8-1	<25.0	<25.0	705	<25.0	<25.0	<25.0	29.4	8,900
PTN8-2	<25.0	<25.0	653	<25.0	<25.0	<25.0	<25.0	8,840
PTN8-1	<50.0	<50.0	751	<50.0	<50.0	<50.0	<50.0	12,000
PTN8-2	<50.0	<50.0	714	<50.0	<50.0	<50.0	<50.0	12,200
PTN9-1	<10.0	<10.0	130	<10.0	<10.0	<10.0	<10.0	>5,000
PTN9-2	<25.0	<25.0	135	<25.0	<25.0	<25.0	<25.0	5,510
PTC1A-1	<10.0	<10.0	64.7	<10.0	<10.0	<10.0	<10.0	>5,000
PTC1A-2	<10.0	<10.0	68.1	<10.0	<10.0	<10.0	<10.0	>5,000
PTC1B-1	<2.5	<2.5	14.2	<2.5	<2.5	<2.5	3.0	645
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	591
PTC1B-2	<2.5	<2.5	21.0	<2.5	<2.5	<2.5	4.5	1,150
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,020
PTC1C-1	<50.0	<50.0	76.6	<50.0	<50.0	<50.0	<50.0	9,800
PTC1E-2	<10.0	<10.0	11.0	<10.0	<10.0	<10.0	<10.0	2,560
PTC2A-1	<10.0	<10.0	107	<10.0	<10.0	<10.0	<10.0	>5,000
PTC2A-2	<50.0	<50.0	124	<50.0	<50.0	<50.0	<50.0	7,860
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	738
PTC2B-2	<2.5	<2.5	29.3	<2.5	<2.5	<2.5	<2.5	804
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	75.0
PTC2C-2	<0.5	<0.5	31.6	<0.5	<0.5	<0.5	2.2	63.4
PTC3A-1	<10.0	<10.0	88.8	<10.0	<10.0	<10.0	<10.0	>5,000
PTC3A-2	<25.0	<25.0	94.7	<25.0	<25.0	<25.0	<25.0	7,230
PTC3B-1	<2.5	3.0	8.4	9.3	3.1	<2.5	9.5	569
PTC3C-1	<10.0	<10.0	62.6	<10.0	<10.0	<10.0	<10.0	4,100
PTC3C-2	<10.0	<10.0	96.9	<10.0	<10.0	<10.0	<10.0	>5,000
PTC3C-2	<100	<100	109	<100	<100	<100	<100	10,800
PTC4A-1	<50.0	<50.0	118	<50.0	<50.0	<50.0	<50.0	11,500
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	32.4
PTC4B-2	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	1.0	26.6
PTC4B-1	<50.0	<50.0	83.4	<50.0	<50.0	<50.0	<50.0	10,200
PTC4B-2	<50.0	<50.0	90.4	<50.0	<50.0	<50.0	<50.0	11,000
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	10,700
PTC4C-2	<100	<100	<100	<100	<100	<100	<100	10,300
PTC5A-1	<25.0	<25.0	57.0	<25.0	<25.0	<25.0	<25.0	5,090
PTC5B-1	<25.0	<25.0	45.0	<25.0	<25.0	<25.0	<25.0	6,120
PTC5C-1	<1.0	<1.0	10.6	3.3	2.4	<1.0	3.2	325
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	320
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	333
PTC5C-2	<1.0	1.1	10.5	3.5	2.5	<1.0	3.7	332
PTC6A-1	<25.0	<25.0	83.6	<25.0	<25.0	<25.0	<25.0	8,300
PTC6B-2	<25.0	<25.0	120	<25.0	<25.0	<25.0	<25.0	11,600
PTC6B-2	<50.0	<50.0	123	<50.0	<50.0	<50.0	<50.0	11,700
PTC6C-1	<1.7	<1.7	3.7	<1.7	<1.7	<1.7	7.3	286
PTC6D-1	<0.5	<0.5	0.8	0.7	<0.5	<0.5	2.5	51.3
PTC6E-2	<10.0	<10.0	24.8	<10.0	<10.0	<10.0	<10.0	2,230

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-chloro-methane (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1-Dichloro-propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro-ethane (µg/L)	Trichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)
PTN7-1	<25.0	<25.0	<25.0	3,900	<25.0	<25.0	218	<25.0
PTN7-2	<25.0	<25.0	<25.0	4,180	<25.0	<25.0	224	<25.0
PTN8-1	<25.0	<25.0	<25.0	922	<25.0	<25.0	546	<25.0
PTN8-2	<25.0	<25.0	<25.0	960	<25.0	<25.0	516	<25.0
PTN8-1	<50.0	<50.0	<50.0	576	<50.0	<50.0	489	<50.0
PTN8-2	<50.0	<50.0	<50.0	588	<50.0	<50.0	503	<50.0
PTN9-1	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	136	<10.0
PTN9-2	<25.0	<25.0	<25.0	6,470	<25.0	<25.0	137	<25.0
PTC1A-1	<10.0	<10.0	<10.0	2,790	<10.0	<10.0	147	<10.0
PTC1A-2	<10.0	<10.0	<10.0	2,790	<10.0	11.3	148	<10.0
PTC1B-1	<2.5	<2.5	<2.5	13.0	<2.5	<2.5	12.3	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	106	<2.5	<2.5	51.0	<2.5
PTC1B-2	<25.0	<25.0	<25.0	91.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	<50.0	<50.0	<50.0	6,640	<50.0	<50.0	95.3	<50.0
PTC1E-2	<10.0	<10.0	<10.0	656	<10.0	<10.0	11.6	<10.0
PTC2A-1	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	21.2	<10.0
PTC2A-2	<50.0	<50.0	<50.0	8,740	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	53.0	<2.5	<2.5	12.9	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	8.8	<0.5
PTC3A-1	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	15.3	<10.0
PTC3A-2	<25.0	<25.0	<25.0	6,640	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	387	<2.5	<2.5	225	<2.5
PTC3C-1	<10.0	<10.0	<10.0	1,600	<10.0	<10.0	10.7	<10.0
PTC3C-2	<10.0	<10.0	<10.0	>5,000	<10.0	14.9	65.7	<10.0
PTC3C-2	<100	<100	<100	16,000	<100	<100	128	<100
PTC4A-1	<50.0	<50.0	<50.0	11,000	<50.0	<50.0	96.8	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	63.4	<25.0
PTC4B-2	<0.5	<0.5	<0.5	10.6	<0.5	<0.5	7.0 H	<0.5
PTC4B-1	<50.0	<50.0	<50.0	14,500	<50.0	<50.0	108	<50.0
PTC4B-2	<50.0	<50.0	<50.0	15,500	<50.0	<50.0	152	<50.0
PTC4C-1	<50.0	<50.0	<50.0	22,700	<50.0	<50.0	79.4	<50.0
PTC4C-2	<100	<100	<100	21,300	<100	<100	139	<100
PTC5A-1	<25.0	<25.0	<25.0	5,540	<25.0	<25.0	124	<25.0
PTC5B-1	<25.0	<25.0	<25.0	>125,000	<25.0	<25.0	83.2	<25.0
PTC5C-1	<1.0	<1.0	<1.0	13.6	<1.0	4.7	47.6	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	50.2	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	58.5	<50.0
PTC5C-2	<1.0	<1.0	<1.0	13.9	<1.0	4.6	49.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	3,600	<25.0	<25.0	112	<25.0
PTC6B-2	<25.0	<25.0	<25.0	>12,500	<25.0	<25.0	67.4	<25.0
PTC6B-2	<50.0	<50.0	<50.0	12,500	<50.0	<50.0	95.9	<50.0
PTC6C-1	<1.7	<1.7	<1.7	46.7	<1.7	<1.7	22.4	<1.7
PTC6D-1	<0.5	<0.5	<0.5	3.2	<0.5	<0.5	20.6	<0.5
PTC6E-2	<10.0	<10.0	<10.0	1,330	<10.0	<10.0	107	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,520	<25.0
PTN7-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,480	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,160	<25.0
PTN8-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,050	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	860	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	828	<50.0
PTN9-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,100	<10.0
PTN9-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,850	<25.0
PTC1A-1	<10.0	<10.0	<10.0	<10.0	<10.0	10.1	1,810	<10.0
PTC1A-2	<10.0	<10.0	<10.0	<10.0	<10.0	10.6	1,810	<10.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	6.0	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	65.7	<2.5
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	57.3	<25.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	899	<50.0
PTC1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	38.9	<10.0
PTC2A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	583	<10.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	602	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	69.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	22.2	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	302	<10.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	294	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	333	<2.5
PTC3C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	87.1	<10.0
PTC3C-2	19.4	<10.0	<10.0	<10.0	<10.0	13.3	1,090	<10.0
PTC3C-2	<100	<100	<100	<100	<100	<100	1,040	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,690	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	120	<25.0
PTC4B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	51.6	<0.5
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,550	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,740	<50.0
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,270	<50.0
PTC4C-2	<100	<100	<100	<100	<100	<100	1,280	<100
PTC5A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,100	<25.0
PTC5B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,250	<25.0
PTC5C-1	<1.0	<1.0	<1.0	1.0	<1.0	1.8	249	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	246	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	259	<50.0
PTC5C-2	<1.0	<1.0	<1.0	1.4	<1.0	1.8	277	<1.0
PTC6A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,510	<25.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	890	<25.0
PTC6B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	964	<50.0
PTC6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	28.2	<1.7
PTC6D-1	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	8.0	<0.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	298	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo-chloro-methane (µg/L)	1,2-Dibromo-ethane (µg/L)	Chloro-benzene (µg/L)	1,1,1,2-Tetrachloro-ethane (µg/L)	Ethyl benzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN7-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<10.0	<10.0	<10.0	20.1	<10.0	<10.0	<10.0	<10.0
PTN9-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<10.0	<10.0	<10.0	17.6	<10.0	<10.0	<10.0	<10.0
PTC1A-2	<10.0	<10.0	<10.0	20.4	<10.0	<10.0	<10.0	<10.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-1	<10.0	<10.0	<10.0	21.5	<10.0	<10.0	<10.0	<10.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<10.0	<10.0	<10.0	19.8	<10.0	<10.0	<10.0	<10.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<10.0	<10.0	<10.0	36.7	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC4B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	55.6	<50.0	<50.0	<50.0	<50.0
PTC4C-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC5A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5B-1	<25.0	<25.0	<25.0	34.5	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTN7-1	<25.0	<25.0	<25.0	66.6	<25.0	62.7 H	<25.0	<25.0
PTN7-2	<25.0	<25.0	<25.0	56.5	<25.0	67.7 H	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	43.9	<25.0	40.9 H	<25.0	<25.0
PTN8-2	<25.0	<25.0	<25.0	41.2	<25.0	37.3 H	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	59.2	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<10.0	<10.0	<10.0	68.8	<10.0	123 H	<10.0	<10.0
PTN9-2	<25.0	<25.0	<25.0	68.8	<25.0	108 H	<25.0	<25.0
PTC1A-1	<10.0	<10.0	<10.0	45.8	<10.0	40.7	<10.0	<10.0
PTC1A-2	<10.0	<10.0	<10.0	44.9	<10.0	41.2	<10.0	<10.0
PTC1B-1	<2.5	<2.5	<2.5	2.7	<2.5	<2.5	<2.5	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	5.0	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	<50.0	<50.0	<50.0	75.0	<50.0	59.8	<50.0	<50.0
PTC1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-1	<10.0	<10.0	<10.0	45.0	<10.0	94.7	<10.0	<10.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	77.4	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<10.0	<10.0	<10.0	37.7	<10.0	74.0	<10.0	<10.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	69.5	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	5.9	<2.5	4.5	<2.5	<2.5
PTC3C-1	<10.0	<10.0	<10.0	13.9	<10.0	12.5	<10.0	<10.0
PTC3C-2	<10.0	<10.0	<10.0	62.0	<10.0	166	<10.0	<10.0
PTC3C-2	<100	<100	<100	<100	<100	147	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	71.6	<50.0	117	<50.0	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	<25.0
PTC4B-2	<0.5	<0.5	<0.5	0.8	<0.5	<1.0	<0.5	<0.5
PTC4B-1	<50.0	<50.0	<50.0	80.7	<50.0	141	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	84.9	<50.0	141	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	84.2	<50.0	190	<50.0	<50.0
PTC4C-2	<100	<100	<100	104	<100	172	<100	<100
PTC5A-1	<25.0	<25.0	<25.0	67.9	<25.0	76.5	<25.0	<25.0
PTC5B-1	<25.0	<25.0	<25.0	66.3	<25.0	136	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	21.7	<1.0	<1.0	<1.0	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<1.0	<1.0	<1.0	22.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	41.1	<25.0	49.3	<25.0	<25.0
PTC6B-2	<25.0	<25.0	<25.0	53.8	<25.0	114	<25.0	<25.0
PTC6B-2	<50.0	<50.0	<50.0	59.7	<50.0	111	<50.0	<50.0
PTC6C-1	<1.7	<1.7	<1.7	2.2	<1.7	<1.7	<1.7	<1.7
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-2	<10.0	<10.0	<10.0	15.4	<10.0	11.9	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN7-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN9-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC4B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC5A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTN7-1	<25.0	<25.0	480 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTN7-2	<25.0	<25.0	453 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	93.2 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-2	<25.0	<25.0	95.4 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	65.2	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<10.0	<10.0	779 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTN9-2	<25.0	<25.0	725 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<10.0	<10.0	39.6	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1A-2	<10.0	<10.0	35.9	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1C-1	<50.0	<50.0	317	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1E-2	<10.0	<10.0	17.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-1	<10.0	<10.0	451	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2A-2	<50.0	<50.0	420	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<10.0	<10.0	286	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3A-2	<25.0	<25.0	287	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	15.0	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<10.0	<10.0	98.6	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<10.0	<10.0	1,830	<10.0	<10.0	<10.0	<10.0	<10.0
PTC3C-2	<100	<100	1,480	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	665	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC4B-2	<0.5	<0.5	0.7 H	<0.5	<0.5	<0.5	<0.5	<0.5
PTC4B-1	<50.0	<50.0	1,380	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	1,320	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	2,700	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-2	<100	<100	2,500	<100	<100	<100	<100	<100
PTC5A-1	<25.0	<25.0	574	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5B-1	<25.0	<25.0	1,890	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	139	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<25.0	<25.0	633	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-2	<50.0	<50.0	623	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-2	<10.0	<10.0	45.2	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC7A-1	1	3/16/2005	1450	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-2	2	3/16/2005	1450	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	1	3/17/2005	850	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-2	2	3/17/2005	850	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	1	3/18/2005	920	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	2	3/18/2005	920	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	1	3/17/2005	1020	<0.5	<0.5	3.5	<0.5	<0.5
PTC8A-1	1	3/15/2005	930	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8B-1	1	3/15/2005	945	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8C-1	1	3/15/2005	1005	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8D-1	1	3/15/2005	1015	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-1	1	3/15/2005	1040	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	2	3/17/2005	1045	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	1	3/17/2005	1100	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-2	2MA	3/17/2005	1110	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9C-2	2MA	3/17/2005	1110	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	1	3/17/2005	1130	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	2	3/17/2005	1130	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	1	3/17/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	2MA	3/17/2005	1140	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	1	3/15/2005	1120	<1.7	<1.7	1.8	<1.7	<1.7
PTC10A-2	2	3/15/2005	1120	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	1	3/15/2005	1220	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	1	3/15/2005	1355	<1.0	<1.0	2.0	<1.0	<1.0
PTC10C-2	2	3/15/2005	1355	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-1	1	3/15/2005	1425	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10E-1	1	3/15/2005	1505	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	2	3/16/2005	1210	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	1	3/16/2005	1230	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	2	3/16/2005	1230	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	1	3/16/2005	1240	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11D-2	2	3/15/2005	1420	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	1	3/15/2005	1510	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11F-1	1	3/15/2005	1600	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	1	3/14/2005	1555	<25.0	<25.0	<25.0	<25.0	<25.0
PTC12A-2	2	3/15/2005	1555	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	1	3/14/2005	1615	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-2	2	3/14/2005	1615	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	1	3/15/2005	815	<0.5	<0.5	0.7	<0.5	<0.5
PTC12D-2	2	3/15/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	1	3/15/2005	920	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	1	3/15/2005	945	<0.5	<0.5	1.4	<0.5	<0.5
PTC13A-1	1	3/14/2005	1140	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13A-2	2	3/14/2005	1140	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	1	3/14/2005	1200	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	2	3/14/2005	1200	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	1	3/14/2005	1220	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	1	3/14/2005	1300	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	1	3/14/2005	1035	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	14.4	<10.0	<10.0	<10.0	14.0
PTC7A-2	<3.6	4.8	<3.6	16.8	2.7	<3.6	10.4	12.4
PTC7B-1	<10.0	<10.0	<10.0	14.2	<10.0	<10.0	<10.0	993
PTC7B-2	<10.0	<10.0	<10.0	17.8	<10.0	<10.0	<10.0	1,010
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	1.4	20.3
PTC7D-1	<0.5	1.7	1.2	6.7	0.6	<0.5	18.0	86.6
PTC8A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	554
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	718
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	216
PTC8D-1	<3.6	<3.6	<3.6	4.0	<3.6	<3.6	4.3	536
PTC8E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,660
PTC9A-2	<25.0	<25.0	56.6	<25.0	<25.0	<25.0	<25.0	9,230
PTC9B-1	<25.0	<25.0	50.1	<25.0	<25.0	<25.0	<25.0	7,180
PTC9C-2	<10.0	<10.0	45.6	<10.0	<10.0	<10.0	<10.0	>5,000
PTC9C-2	<25.0	<25.0	56.4	<25.0	<25.0	<25.0	<25.0	6,060
PTC9D-1	<10.0	<10.0	28.6	<10.0	<10.0	<10.0	<10.0	2,720
PTC9D-2	<10.0	<10.0	23.8	<10.0	<10.0	<10.0	<10.0	2,640
PTC9E-1	<10.0	<10.0	14.8	<10.0	<10.0	<10.0	<10.0	>5,000
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,710
PTC10A-1	<1.7	4.8	27.8	11.7	2.6	<1.7	9.3	>833
PTC10A-2	<10.0	<10.0	26.6	12.3	<10.0	<10.0	<10.0	1,620
PTC10B-1	<25.0	<25.0	30.6	<25.0	<25.0	<25.0	<25.0	4,290
PTC10C-1	<1.0	1.5	12.5	4.0	1.1	<1.0	18.8	>500
PTC10C-2	<3.6	<3.6	13.8	5.3	<3.6	<3.6	20.5	1,420
PTC10D-1	<2.5	<2.5	15.4	5.7	<2.5	<2.5	32.0	>1,250
PTC10E-1	<25.0	<25.0	46.3	<25.0	<25.0	<25.0	<25.0	4,360
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	3,950
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,890
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,970
PTC11C-1	<10.0	<10.0	13.0	<10.0	<10.0	<10.0	<10.0	1,910
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,150
PTC11E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	3,720
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,360
PTC12A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	478	2,680
PTC12A-2	<10.0	<10.0	11.3	14.5	<10.0	<10.0	457	1,810
PTC12B-1	<10.0	<10.0	<10.0	17.0	<10.0	<10.0	199	1,200
PTC12B-2	<3.6	5.6	7.2	15.4	<3.6	<3.6	206	1,010
PTC12C-1	<0.5	0.6	0.7	1.9	<0.5	<0.5	71.1	20.7
PTC12D-2	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	14.5	19.4
PTC12E-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	9.5	23.0
PTC12F-1	<0.5	<0.5	<0.5	3.8	1.0	<0.5	29.4	91.7
PTC13A-1	<25.0	<25.0	59.9	<25.0	<25.0	<25.0	<25.0	5,480
PTC13A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	5,160
PTC13B-1	<10.0	<10.0	19.5	<10.0	<10.0	<10.0	<10.0	2,270
PTC13B-2	<10.0	<10.0	18.9	<10.0	<10.0	<10.0	<10.0	2,400
PTC13C-1	<10.0	<10.0	22.9	<10.0	<10.0	<10.0	11.7	2,080
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	12.8	1,160
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,060

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-chloro-methane (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1-Dichloro-propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro-ethane (µg/L)	Trichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144	<10.0
PTC7A-2	<3.6	<3.6	<3.6	7.1	5.1	<3.6	153	<3.6
PTC7B-1	<10.0	<10.0	<10.0	127	<10.0	<10.0	227	<10.0
PTC7B-2	<10.0	<10.0	<10.0	130	10.2	<10.0	250	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	12.4	<0.5
PTC7D-1	<0.5	<0.5	<0.5	3.0	1.7	0.7	67.1	<0.5
PTC8A-1	<10.0	<10.0	<10.0	402	<10.0	<10.0	26.4	<10.0
PTC8B-1	<10.0	<10.0	<10.0	395	<10.0	<10.0	56.2	<10.0
PTC8C-1	<10.0	<10.0	<10.0	88.7	<10.0	<10.0	28.7	<10.0
PTC8D-1	<3.6	<3.6	<3.6	210	<3.6	<3.6	36.2	<3.6
PTC8E-1	<25.0	<25.0	<25.0	1,840	<25.0	<25.0	54.1	<25.0
PTC9A-2	<25.0	<25.0	<25.0	1,790	<25.0	<25.0	101	<25.0
PTC9B-1	<25.0	<25.0	<25.0	2,440	<25.0	<25.0	89.8	<25.0
PTC9C-2	<10.0	<10.0	<10.0	1,940	<10.0	<10.0	97.6	<10.0
PTC9C-2	<25.0	<25.0	<25.0	1,720	<25.0	<25.0	93.1	<25.0
PTC9D-1	<10.0	<10.0	<10.0	406	10.0	<10.0	64.7	<10.0
PTC9D-2	<10.0	<10.0	<10.0	449	<10.0	<10.0	80.3	<10.0
PTC9E-1	<10.0	<10.0	<10.0	> 5,000	<10.0	11.7	71.9	<10.0
PTC9E-2	<50.0	<50.0	<50.0	1,300	<50.0	<50.0	55.1	<50.0
PTC10A-1	<1.7	<1.7	<1.7	99.0	<1.7	5.1	155	<1.7
PTC10A-2	<10.0	<10.0	<10.0	88.2	<10.0	<10.0	155	<10.0
PTC10B-1	<25.0	<25.0	<25.0	4,950	<25.0	<25.0	121	<25.0
PTC10C-1	<1.0	<1.0	<1.0	362	<1.0	2.4	44.2	<1.0
PTC10C-2	<3.6	<3.6	<3.6	388	<3.6	<3.6	47.6	<3.6
PTC10D-1	<2.5	<2.5	<2.5	286	<2.5	3.6 H	58.3	<2.5
PTC10E-1	<25.0	<25.0	<25.0	3,260	<25.0	<25.0	140	<25.0
PTC11A-2	<25.0	<25.0	<25.0	8,470	<25.0	<25.0	75.6	<25.0
PTC11B-1	<50.0	<50.0	<50.0	8,650	<50.0	<50.0	91.9	<50.0
PTC11B-2	<50.0	<50.0	<50.0	9,440	<50.0	<50.0	85.5	<50.0
PTC11C-1	<10.0	<10.0	<10.0	866	<10.0	<10.0	11.2	<10.0
PTC11D-2	<25.0	<25.0	<25.0	9,830	<25.0	<25.0	75.7	<25.0
PTC11E-1	<25.0	<25.0	<25.0	8,950	<25.0	<25.0	75.5	<25.0
PTC11F-1	<50.0	<50.0	<50.0	13,100	<50.0	<50.0	82.9	<50.0
PTC12A-1	<25.0	<25.0	<25.0	557	<25.0	<25.0	626	<25.0
PTC12A-2	<10.0	<10.0	<10.0	313	<10.0	<10.0	448	<10.0
PTC12B-1	<10.0	<10.0	<10.0	1,120	<10.0	<10.0	705	<10.0
PTC12B-2	<3.6	<3.6	<3.6	839	<3.6	<3.6	561	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	15.1	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.3	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	3.4	0.5	<0.5	24.9	<0.5
PTC13A-1	<25.0	<25.0	<25.0	11,600	<25.0	<25.0	70.9	<25.0
PTC13A-2	<50.0	<50.0	<50.0	10,500	<50.0	<50.0	71.6	<50.0
PTC13B-1	<10.0	<10.0	<10.0	4,230	<10.0	<10.0	184	<10.0
PTC13B-2	<10.0	<10.0	<10.0	4,740	<10.0	<10.0	181	<10.0
PTC13C-1	<10.0	<10.0	<10.0	2,110	<10.0	<10.0	148	<10.0
PTC13D-1	<10.0	<10.0	<10.0	272	<10.0	<10.0	183	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	316	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	865	<10.0
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	917	<3.6
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	730	<10.0
PTC7B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	807	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	40.1	<25.0
PTC7C-2	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	8.3	<0.5
PTC7D-1	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	60.8	<0.5
PTC8A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	165	<10.0
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	329	<10.0
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	45.7	<10.0
PTC8D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	55.8	<3.6
PTC8E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	273	<25.0
PTC9A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,050	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,060	<25.0
PTC9C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,070	<10.0
PTC9C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,000	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	301	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	403	<10.0
PTC9E-1	<10.0	<10.0	<10.0	<10.0	<10.0	11.5	813	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	118	<50.0
PTC10A-1	<1.7	<1.7	<1.7	<1.7	<1.7	4.3	>833	<1.7
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,810	<10.0
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,880	<25.0
PTC10C-1	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	96.9	<1.0
PTC10C-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	103	<3.6
PTC10D-1	<2.5	<2.5	<2.5	<2.5	<2.5	2.7	108	<2.5
PTC10E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,180	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	920	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,120	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,100	<50.0
PTC11C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	52.7	<10.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,040	<25.0
PTC11E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	867	<25.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,210	<50.0
PTC12A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,120	<25.0
PTC12A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	820	<10.0
PTC12B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,520	<10.0
PTC12B-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,210	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.2	<0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,040	<25.0
PTC13A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,190	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,750	<10.0
PTC13B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,880	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,830	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,850	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	942	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-2	<10.0	<10.0	<10.0	11.4	<10.0	<10.0	<10.0	<10.0
PTC9C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	21.6	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<1.7	<1.7	<1.7	3.6	<1.7	<1.7	<1.7	<1.7
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0
PTC10C-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC12A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-2	<3.6	<3.6	<3.6	7.7	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	14.2	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	14.3	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-2	<3.6	<3.6	<3.6	8.8	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-2	<10.0	<10.0	<10.0	13.3	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTC8B-1	<10.0	<10.0	<10.0	12.9	<10.0	<20.0	<10.0	<10.0
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0
PTC8D-1	<3.6	<3.6	<3.6	7.8	<3.6	<3.6	<3.6	<3.6
PTC8E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<25.0	<25.0
PTC9A-2	<25.0	<25.0	<25.0	71.5	<25.0	42.8	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	54.7	<25.0	33.9	<25.0	<25.0
PTC9C-2	<10.0	<10.0	<10.0	59.7	<10.0	28.6	<10.0	<10.0
PTC9C-2	<25.0	<25.0	<25.0	45.7	<25.0	33.8	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	32.1	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<10.0	<10.0	<10.0	35.7	<10.0	11.3	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	74.9	<10.0	91.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<1.7	<1.7	<1.7	48.0	<1.7	3.4 H	<1.7	<1.7
PTC10A-2	<10.0	<10.0	<10.0	41.6	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<25.0	<25.0	<25.0	56.6	<25.0	73.0 H	<25.0	<25.0
PTC10C-1	<1.0	<1.0	<1.0	21.7	<1.0	4.9 H	<1.0	<1.0
PTC10C-2	<3.6	<3.6	<3.6	20.0	<3.6	4.8	<3.6	<3.6
PTC10D-1	<2.5	<2.5	<2.5	10.6	<2.5	<5.0	<2.5	<2.5
PTC10E-1	<25.0	<25.0	<25.0	65.0	<25.0	72.1 H	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	55.0	<25.0	95.8	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	79.5	<50.0	117	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	70.3	<50.0	120	<50.0	<50.0
PTC11C-1	<10.0	<10.0	<10.0	28.6	<10.0	10.9	<10.0	<10.0
PTC11D-2	<25.0	<25.0	<25.0	70.1	<25.0	113	<25.0	<25.0
PTC11E-1	<25.0	<25.0	<25.0	70.3	<25.0	109	<25.0	<25.0
PTC11F-1	<50.0	<50.0	<50.0	98.8	<50.0	182 H	<50.0	<50.0
PTC12A-1	<25.0	<25.0	<25.0	46.2	<25.0	<50.0	<25.0	<25.0
PTC12A-2	<10.0	<10.0	<10.0	46.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<10.0	<10.0	<10.0	40.8	<10.0	41.8 H	<10.0	<10.0
PTC12B-2	<3.6	<3.6	<3.6	42.2	<3.6	32.7 H	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	59.1	<25.0	154 H	<25.0	<25.0
PTC13A-2	<50.0	<50.0	<50.0	73.8	<50.0	116 H	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	65.6	<10.0	87.1 H	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	63.6	<10.0	90.9 H	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	46.9	<10.0	59.9 H	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	41.6	<10.0	41.5 H	<10.0	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC10C-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC12A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<10.0	<10.0	48.0 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8B-1	<10.0	<10.0	38.8 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-1	<25.0	<25.0	76.6 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<25.0	<25.0	83.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	123	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-2	<10.0	<10.0	112	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9C-2	<25.0	<25.0	117	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	22.3	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<10.0	<10.0	26.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	1,240	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	53.6	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<1.7	<1.7	<1.7 H	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<25.0	<25.0	480 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.0	<1.0	1.8 H	<1.0	<1.0	<1.0	<1.0	<1.0
PTC10C-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10E-1	<25.0	<25.0	548 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	1,540	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	1,860	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	1,980	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<10.0	<10.0	63.1	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11D-2	<25.0	<25.0	1,960	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	<25.0	<25.0	2,070	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11F-1	<50.0	<50.0	3,910 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC12A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<10.0	<10.0	57.5 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-2	<3.6	<3.6	36.2 H	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	1,740 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13A-2	<50.0	<50.0	1,440 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	1,350 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	1,510 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	328 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	135 H	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTZ1A-2	2	3/14/2005	1035	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1B-1	1	3/14/2005	1400	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	1	3/14/2005	1210	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	1	3/14/2005	1320	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	2	3/14/2005	1320	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	1	3/21/2005	1100	<100	<100	<100	<100	<100
PTZ1E-2	2	3/21/2005	1100	<20.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	1	3/14/2005	1120	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	2	3/14/2005	1120	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	1	3/14/2005	1125	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	1	3/14/2005	1145	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2D-1	1	3/14/2005	1215	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-2	2	3/14/2005	1215	<100	<100	<100	<100	<100
PTZ2E-1	1	3/14/2005	1300	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ2E-2	2	3/14/2005	1300	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	1	3/14/2005	1620	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-1	1	3/14/2005	1600	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-2	2	3/14/2005	1600	<50.0	<50.0	<50.0	<50.0	<50.0
PTB1B-1	1	5/9/2005	1430	<0.5	<0.5	18.2 H	<0.5	<0.5
PTB1C-1	1	5/9/2005	1436	<3.6	<3.6	40.2 H	<3.6	<3.6
PTB2B-1	1	5/9/2005	1438	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	1	5/9/2005	1441	<1.7	8.8	3.7 H	<1.7	<1.7
PTB3B-1	1	5/9/2005	1444	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	1	5/9/2005	1446	<1.0	<1.0	2.1 H	<1.0	<1.0
PTB4B-1	1	5/9/2005	1417	<3.6	18.9	6.4 H	<3.6	<3.6
PTB4C-1	1	5/9/2005	1415	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	1	5/9/2005	1410	<0.5	<0.5	0.8 H	<0.5	<0.5
PTB5C-1	1	5/9/2005	1413	<1.7	<1.7	<1.7 H	<1.7	<1.7
PTB6B-1	1	5/9/2005	1428	<0.5	<0.5	0.8 H	<0.5	<0.5
PTB6C-1	1	5/9/2005	1430	<1.7	<1.7	3.2 H	<1.7	<1.7
PTB7B-1	1	5/9/2005	1457	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	1	5/9/2005	1500	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8B-1	1	5/9/2005	1422	<0.5	0.6	1.3 H	<0.5	<0.5
PTB8C-1	1	5/9/2005	1424	<3.6	18.2	<3.6	<3.6	<3.6
PTB9B-1	1	5/9/2005	1453	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	1	5/9/2005	1454	<1.0	<1.0	11.3 H	<1.0	<1.0
PTN1-1	1	5/18/2005	1330	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	1	5/18/2005	1100	<10.0	<10.0	<10.0	<10.0	<10.0
PTN2-2	2	5/18/2005	1100	<50.0	<50.0	<50.0	<50.0	<50.0
PTN3-1	1	5/18/2005	1035	<10.0	<10.0	<10.0	<10.0	<10.0
PTN3-2	2	5/18/2005	1035	<25.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	1	5/18/2005	1250	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	1	5/18/2005	1130	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	2	5/18/2005	1130	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	1	5/18/2005	1125	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTZ1A-2	<3.6	6.6	<3.6	24.0	<3.6	<3.6	11.8	954
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	5,950
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.3
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	2,440
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2D-1	<2.5	<2.5	152	<2.5	2.8	<2.5	<2.5	>1,250
PTZ2D-2	<100	<100	162	<100	<100	<100	<100	7,870
PTZ2E-1	<1.7	<1.7	87.5	<1.7	<1.7	<1.7	<1.7	>833
PTZ2E-2	<50.0	<50.0	77.5	<50.0	<50.0	<50.0	<50.0	5,080
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	63.3	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	647
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	630
PTB1B-1	<0.5	0.8	5.1	1.6	2.0	<0.5	21.7	1.2
PTB1C-1	<3.6	<3.6	14.6	<3.6	<3.6	<3.6	33.4	3.7
PTB2B-1	<0.5	<0.5	24.1	<0.5	<0.5	<0.5	<0.5	4.2
PTB2C-1	<1.7	<1.7	308	<1.7	1.9	<1.7	5.3	39.3
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9
PTB3C-1	<1.0	<1.0	109	<1.0	<1.0	<1.0	3.0	<1.0
PTB4B-1	<3.6	5.0	297	6.1	<3.6	<3.6	30.9	214
PTB4C-1	<10.0	<10.0	546	<10.0	<10.0	<10.0	32.8	564
PTB5B-1	<0.5	<0.5	134	<0.5	<0.5	<0.5	0.9	0.8
PTB5C-1	<1.7	<1.7	561	<1.7	<1.7	<1.7	3.5	77.7
PTB6B-1	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	1.4	0.5
PTB6C-1	<1.7	<1.7	11.6	<1.7	<1.7	<1.7	6.2	<1.7
PTB7B-1	<10.0	17.3	1,220	11.1	<10.0	<10.0	77.4	4,910
PTB7C-1	<10.0	15.7	735	14.8	<10.0	<10.0	93.5	2,040
PTB8B-1	<0.5	<0.5	171	<0.5	<0.5	<0.5	2.1	9.3
PTB8C-1	<3.6	<3.6	1,010	<3.6	<3.6	<3.6	7.6	300
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	1.5	<1.0	1.0	2.5	<1.0	12.4	<1.0
PTN1-1	<50.0	<50.0	107	<50.0	<50.0	<50.0	<50.0	10,800
PTN2-1	<10.0	<10.0	169	<10.0	<10.0	<10.0	40.9	>5,000
PTN2-2	<50.0	<50.0	181	<50.0	<50.0	<50.0	<50.0	10,700
PTN3-1	<10.0	<10.0	261	<10.0	<10.0	<10.0	17.0	>5,000
PTN3-2	<25.0	<25.0	251	<25.0	<25.0	<25.0	<25.0	8,670
PTN4-1	<50.0	<50.0	400	<50.0	<50.0	<50.0	<50.0	15,000
PTN5-1	<25.0	<25.0	136	<25.0	<25.0	<25.0	<25.0	8,550
PTN5-2	<25.0	<25.0	156	<25.0	<25.0	<25.0	<25.0	9,470
PTN6-1	<25.0	<25.0	200	<25.0	<25.0	<25.0	<25.0	9,610

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	1.4	7.6	<3.6	246	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	6,520	31.8	<25.0	116	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	3.2	<0.5	<0.5	1.3	<0.5
PTZ1E-1	<100	<100	<100	576	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	<10.0	378	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	115	<50.0
PTZ2D-1	<2.5	4.4	<2.5	>1,250	<2.5	11.4	64.6	<2.5
PTZ2D-2	<100	<100	<100	21,100	<100	<100	<100	<100
PTZ2E-1	<1.7	2.2	<1.7	>833	<1.7	6.7	39.1	<1.7
PTZ2E-2	<50.0	<50.0	<50.0	10,600	<50.0	<50.0	96.6 V	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	84.8	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	613	<50.0	<50.0	58.8 V	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	508	<50.0	<50.0	<50.0	<50.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	2.3	6.9	4.3	<0.5
PTB1C-1	<3.6	<3.6	<3.6	<3.6	5.1	9.7	9.9	<3.6
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.6	<0.5
PTB2C-1	<1.7	<1.7	<1.7	<1.7	2.0	4.0	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	0.7 B	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	<1.0	1.1	3.1	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	<3.6	<3.6	12.0	128	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	149	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	<1.7	<1.7	2.5	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	1.4	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	2.1	5.9	4.2	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	15.1	1,010	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	12.3	984	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	0.7	1.3	2.0	<0.5
PTB8C-1	<3.6	<3.6	<3.6	<3.6	<3.6	4.0	5.2	<3.6
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	<1.0	2.5	9.5	2.1	<1.0
PTN1-1	<50.0	<50.0	<50.0	3,220	<50.0	<50.0	129	<50.0
PTN2-1	<10.0	<10.0	<10.0	2,910	<10.0	14.0	211	<10.0
PTN2-2	<50.0	<50.0	<50.0	2,780 H	<50.0	<50.0	205	<50.0
PTN3-1	<10.0	<10.0	<10.0	1,970	<10.0	12.8	242	<10.0
PTN3-2	<25.0	<25.0	<25.0	2,050 H	<25.0	<25.0	258	<25.0
PTN4-1	<50.0	<50.0	<50.0	13,000	<50.0	<50.0	101	<50.0
PTN5-1	<25.0	<25.0	<25.0	478	<25.0	<25.0	399	<25.0
PTN5-2	<25.0	<25.0	<25.0	521	<25.0	<25.0	437	<25.0
PTN6-1	<25.0	<25.0	<25.0	11,900	<25.0	<25.0	74.9	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	816	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0 H	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	663	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9	<0.5
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	11.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	538	<50.0
PTZ2D-1	15.8	<2.5	<2.5	<2.5	<2.5	10.5	1,140	<2.5
PTZ2D-2	<100	<100	<100	<100	<100	<100	1,040	<100
PTZ2E-1	9.6	<1.7	<1.7	<1.7	<1.7	6.6	816	<1.7
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	867	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	107	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	54.5	<50.0
PTB1B-1	<0.5	<0.5	<0.5	27.9	<0.5	<0.5	0.6	<0.5
PTB1C-1	<3.6	<3.6	<3.6	20.7	<3.6	<3.6	<3.6	<3.6
PTB2B-1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.7	<1.7	<1.7	8.0	<1.7	<1.7	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	18.1	<1.0	<1.0	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	8.6	<3.6	<3.6	12.0	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	23.3	<10.0
PTB5B-1	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	4.9	<1.7	<1.7	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	7.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	694	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	83.6	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	36.3	<10.0
PTB8B-1	<0.5	<0.5	<0.5	9.1	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<3.6	<3.6	<3.6	16.3	<3.6	<3.6	<3.6	<3.6
PTB9B-1	<1.7	<1.7	<1.7	59.1	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	>500	<1.0	<1.0	<1.0	<1.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	486	<50.0
PTN2-1	<10.0	<10.0	<10.0	<10.0	<10.0	12.8	1,230	<10.0
PTN2-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,140	<50.0
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	10.0	1,680	<10.0
PTN3-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,620	<25.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,170	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,490	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,640	<25.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	916	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2D-1	<2.5	<2.5	<2.5	53.4	<2.5	<2.5	<2.5	<2.5
PTZ2D-2	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2E-1	<1.7	<1.7	<1.7	24.8	<1.7	<1.7	<1.7	<1.7
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<10.0	<10.0	<10.0	20.8	<10.0	<10.0	<10.0	<10.0
PTN2-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN3-1	<10.0	<10.0	<10.0	11.9	<10.0	<10.0	<10.0	<10.0
PTN3-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl- benzene (µg/L)	Bromo- benzene (µg/L)	1,1,2,2- Tetrachloro- ethane (µg/L)	n-Propyl- benzene (µg/L)	Penta- chloro- ethane (µg/L)	2-Chloro- toluene (µg/L)	1,2,3- Trichloro- propane (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	20.0	<3.6	<3.6	<3.6	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	66.1	<25.0	54.8 H	<25.0	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTZ2D-1	<2.5	<2.5	<2.5	57.8	<2.5	379 H	<2.5	<2.5
PTZ2D-2	<100	<100	<100	<100	<100	312 H	<100	<100
PTZ2E-1	<1.7	<1.7	<1.7	27.8	<1.7	166 H	<1.7	<1.7
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	132 H	<50.0	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<100	<50.0	<50.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	27.8	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	21.1	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<10.0	<10.0	<10.0	54.1	<10.0	51.8	<10.0	<10.0
PTN2-2	<50.0	<50.0	<50.0	63.8	<50.0	51.3 H	<50.0	<50.0
PTN3-1	<10.0	<10.0	<10.0	74.9	<10.0	29.8	<10.0	<10.0
PTN3-2	<25.0	<25.0	<25.0	82.2	<25.0	<25.0	<25.0	<25.0
PTN4-1	<50.0	<50.0	<50.0	78.7	<50.0	155	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	80.4	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	66.6	<25.0	<25.0	<25.0	<25.0
PTN6-1	<25.0	<25.0	<25.0	77.9	<25.0	136	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2D-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-2	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2E-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN2-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN3-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTZ1A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	436 H	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ1E-2	<10.0	<10.0	11.2	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	0.5 H	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2D-1	<2.5	<2.5	>1,250 H	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-2	<100	<100	3,740 H	<100	<100	<100	<100	<100
PTZ2E-1	<1.7	<1.7	>833 H	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ2E-2	<50.0	<50.0	1,420 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-1	<50.0	<50.0	55.2 H	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB5C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB9B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB9C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTN1-1	<50.0	<50.0	133	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<10.0	<10.0	77.6	<10.0	<10.0	<10.0	<10.0	<10.0
PTN2-2	<50.0	<50.0	74.8	<50.0	<50.0	<50.0	<50.0	<50.0
PTN3-1	<10.0	<10.0	28.9	<10.0	<10.0	<10.0	<10.0	<10.0
PTN3-2	<25.0	<25.0	29.3	<25.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	<50.0	<50.0	657	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-1	<25.0	<25.0	776	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTN6-2	2	5/18/2005	1125	<50.0	<50.0	<50.0	<50.0	<50.0
PTN7-1	1	5/18/2005	1330	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	1	5/18/2005	1215	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	2	5/18/2005	1215	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	1	5/18/2005	1210	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	1	5/13/2005	815	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-1	1	5/13/2005	945	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	2	5/13/2005	945	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	1	5/13/2005	900	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	1	5/13/2005	1342	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-2	2	5/16/2005	1342	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	1	5/17/2005	1037	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2B-2	2	5/17/2005	1037	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	1	5/17/2005	1150	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	1	5/13/2005	930	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	1	5/13/2005	1037	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	1	5/13/2005	1132	<100	<100	<100	<100	<100
PTC4A-1	1	5/13/2005	1000	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	1	5/13/2005	1010	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	2	5/13/2005	1010	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	1	5/13/2005	1030	<100	<100	<100	<100	<100
PTC5B-1	1	5/13/2005	1215	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-1	1	5/13/2005	1320	<1.0	<1.0	3.7 H	<1.0	<1.0
PTC6A-1	1	5/9/2005	1545	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	1	5/9/2005	1440	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6D-1	1	5/11/2005	855	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	2	5/18/2005	914	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	1	5/11/2005	919	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-1	1	5/12/2005	940	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-2	2MA	5/12/2005	940	<2.5	<2.5	<2.5	<2.5	<2.5
PTC6E-2	2MA	5/12/2005	940	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	1	5/12/2005	930	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7A-2	2	5/12/2005	930	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	1	5/12/2005	950	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-2	2	5/12/2005	950	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7C-1	1	5/11/2005	800	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7C-2	2	5/11/2005	800	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	1	5/12/2005	1015	<0.5	<0.5	2.9 H	<0.5	<0.5
PTC8A-1	1	5/9/2005	1630	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8A-2	2	5/9/2005	1630	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	1	5/9/2005	1640	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8C-2	2	5/10/2005	1015	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-2	2	5/10/2005	1230	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-2	2	5/10/2005	1250	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	1	5/11/2005	1030	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	1	5/11/2005	1050	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	1	5/11/2005	1105	<50.1	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTN6-2	<50.0	<50.0	209	<50.0	<50.0	<50.0	<50.0	9,840
PTN7-1	<25.0	<25.0	211	<25.0	<25.0	<25.0	<25.0	3,750
PTN8-1	<50.0	<50.0	1,590	<50.0	<50.0	<50.0	<50.0	9,980
PTN8-2	<50.0	<50.0	1,440	<50.0	<50.0	<50.0	<50.0	9,650
PTN9-1	<25.0	<25.0	169	<25.0	<25.0	<25.0	<25.0	6,550
PTC1A-1	<25.0	<25.0	108	<25.0	<25.0	<25.0	<25.0	11,300
PTC1B-1	<2.5	<2.5	6.4	<2.5	<2.5	<2.5	<2.5	512
PTC1B-2	<2.5	<2.5	7.5	<2.5	<2.5	<2.5	2.6	519
PTC1C-1	<50.0	<50.0	97.4	<50.0	<50.0	<50.0	<50.0	14,000
PTC2A-1	<50.0	<50.0	146	<50.0	<50.0	<50.0	<50.0	10,200
PTC2A-2	<50.0	<50.0	118	<50.0	<50.0	<50.0	<50.0	9,640
PTC2B-1	<2.5	<2.5	24.9	<2.5	<2.5	<2.5	<2.5	649
PTC2B-2	<2.5	<2.5	26.0	<2.5	<2.5	<2.5	<2.5	685
PTC2C-1	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	2.5
PTC3A-1	<25.0	<25.0	97.0	<25.0	<25.0	<25.0	<25.0	8,910
PTC3B-1	<2.5	3.6	13.5	11.0	3.8	<2.5	13.1	1,080
PTC3C-1	<100	<100	<100	<100	<100	<100	<100	12,100
PTC4A-1	<50.0	<50.0	101	<50.0	<50.0	<50.0	<50.0	12,900
PTC4B-1	<50.0	<50.0	99.6	<50.0	<50.0	<50.0	<50.0	13,100
PTC4B-2	<50.0	<50.0	94.5	<50.0	<50.0	<50.0	<50.0	12,000
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	12,700
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,850
PTC5C-1	<1.0	4.0	7.9	10.5	3.2	<1.0	9.9	379
PTC6A-1	<25.0	<25.0	114	<25.0	<25.0	<25.0	<25.0	11,100
PTC6B-1	<50.0	<50.0	136	<50.0	<50.0	<50.0	<50.0	13,100
PTC6D-1	<0.5	<0.5	0.7	0.8	<0.5	<0.5	2.8	50.7
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	38.2
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	587
PTC6E-1	<10.0	<10.0	30.8	<10.0	<10.0	<10.0	13.6	750
PTC6E-2	<2.5	4.3	31.9	7.4	<2.5	<2.5	13.0	903
PTC6E-2	<10.0	<10.0	30.4	<10.0	<10.0	<10.0	11.2	827
PTC7A-1	<3.6	5.8	<3.6	24.2	4.2	<3.6	10.9	128
PTC7A-2	<3.6	6.9	<3.6	23.4	3.8	<3.6	10.4	125
PTC7B-1	<3.6	4.4	24.2	13.0	<3.6	<3.6	7.9	>1,790
PTC7B-2	<3.6	<3.6	21.2	14.7	<3.6	<3.6	7.1	>1,790
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	17.2
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	16.3
PTC7D-1	<0.5	1.2	1.2	4.3	<0.5	<0.5	9.2	91.9
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	778
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	878
PTC8B-1	<2.5	<2.5	<2.5	4.3	<2.5	<2.5	2.6	766
PTC8C-2	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	3.2	173
PTC8D-2	<3.6	<3.6	<3.6	5.9	<3.6	<3.6	4.9	762
PTC8E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,060
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	8,510
PTC9B-1	<25.0	<25.0	54.3	<25.0	<25.0	<25.0	<25.0	8,500
PTC9C-1	<25.0	<25.0	47.5	<25.0	<25.0	<25.0	<25.0	6,400

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-chloro-methane (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1-Dichloro-propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro-ethane (µg/L)	Trichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)
PTN6-2	<50.0	<50.0	<50.0	12,600 H	<50.0	<50.0	66.7	<50.0
PTN7-1	<25.0	<25.0	<25.0	1,990	<25.0	<25.0	54.1	<25.0
PTN8-1	<50.0	<50.0	<50.0	1,100	<50.0	<50.0	293	<50.0
PTN8-2	<50.0	<50.0	<50.0	985	<50.0	<50.0	319	<50.0
PTN9-1	<25.0	<25.0	<25.0	5,950	<25.0	<25.0	86.9	<25.0
PTC1A-1	<25.0	<25.0	<25.0	3,780	<25.0	<25.0	150	<25.0
PTC1B-1	<2.5	<2.5	<2.5	57.2	<2.5	<2.5	29.1	<2.5
PTC1B-2	<2.5	<2.5	<2.5	62.1	<2.5	<2.5	29.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	10,000	<50.0	<50.0	141	<50.0
PTC2A-1	<50.0	<50.0	<50.0	12,900	<50.0	<50.0	91.1	<50.0
PTC2A-2	<50.0	<50.0	<50.0	12,100	<50.0	<50.0	93.2	<50.0
PTC2B-1	<2.5	<2.5	<2.5	129	<2.5	<2.5	22.6	<2.5
PTC2B-2	<2.5	<2.5	<2.5	138	<2.5	<2.5	23.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTC3A-1	<25.0	<25.0	<25.0	7,800	<25.0	<25.0	116	<25.0
PTC3B-1	<2.5	<2.5	<2.5	488	<2.5	<2.5	327	<2.5
PTC3C-1	<100	<100	<100	20,000	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	14,500	<50.0	<50.0	91.6	<50.0
PTC4B-1	<50.0	<50.0	<50.0	19,200	<50.0	<50.0	103	<50.0
PTC4B-2	<50.0	<50.0	<50.0	18,100	<50.0	<50.0	93.3	<50.0
PTC4C-1	<100	<100	<100	27,900	<100	<100	<100	<100
PTC5B-1	<50.0	<50.0	<50.0	10,000	<50.0	<50.0	65.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	13.2	<1.0	4.8	89.6	<1.0
PTC6A-1	<25.0	<25.0	<25.0	8,700	<25.0	<25.0	80.2	<25.0
PTC6B-1	<50.0	<50.0	<50.0	13,300	<50.0	<50.0	91.4	<50.0
PTC6D-1	<0.5	<0.5	<0.5	6.8 H	<0.5	<0.5	29.6	<0.5
PTC6D-2	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	24.6	<0.5
PTC6E-1	<10.0	<10.0	<10.0	281 H	<10.0	<10.0	96.8	<10.0
PTC6E-1	<10.0	<10.0	<10.0	218	<10.0	<10.0	129	<10.0
PTC6E-2	<2.5	<2.5	<2.5	271 H	2.9	2.6 H	151	<2.5
PTC6E-2	<10.0	<10.0	<10.0	249	<10.0	<10.0	139	<10.0
PTC7A-1	<3.6	<3.6	<3.6	6.9 H	6.3	4.9 H	243	<3.6
PTC7A-2	<3.6	<3.6	<3.6	5.7	6.2	4.8	239	<3.6
PTC7B-1	<3.6	<3.6	<3.6	877 H	<3.6	7.1 H	236	<3.6
PTC7B-2	<3.6	<3.6	<3.6	798	4.3	6.7	227	<3.6
PTC7C-1	<0.5	<0.5	<0.5	1.0 H	<0.5	<0.5	13.1	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.7	<0.5
PTC7D-1	<0.5	<0.5	<0.5	3.7	1.3	0.6	49.9	<0.5
PTC8A-1	<2.5	<2.5	<2.5	441	<2.5	<2.5	14.7	<2.5
PTC8A-2	<2.5	<2.5	<2.5	508	<2.5	<2.5	14.7	<2.5
PTC8B-1	<2.5	<2.5	<2.5	430	<2.5	<2.5	55.1	<2.5
PTC8C-2	<1.0	<1.0	<1.0	84.3	1.7	<1.0	16.1	<1.0
PTC8D-2	<3.6	<3.6	<3.6	281	<3.6	<3.6	37.5	<3.6
PTC8E-2	<10.0	<10.0	<10.0	1,430	<10.0	<10.0	40.8	<10.0
PTC9A-1	<50.0	<50.0	<50.0	1,950 H	<50.0	<50.0	64.6	<50.0
PTC9B-1	<25.0	<25.0	<25.0	3,080 H	<25.0	<25.0	86.8	<25.0
PTC9C-1	<25.0	<25.0	<25.0	1,960 H	<25.0	<25.0	51.4	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	940	<50.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	385	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	946	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	907	<50.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,070	<25.0
PTC1A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,850	<25.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	43.6	<2.5
PTC1B-2	<2.5	<2.5	<2.5	2.9	<2.5	<2.5	40.2	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,250	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,420	<50.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,360	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	87.1	<2.5
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	87.8	<2.5
PTC2C-1	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,590	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	417	<2.5
PTC3C-1	<100	<100	<100	<100	<100	<100	1,200	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,310	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,360	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,290	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	1,400	<100
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	934	<50.0
PTC5C-1	<1.0	<1.0	<1.0	2.1	<1.0	1.6	196	<1.0
PTC6A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,520	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,260	<50.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.7	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13.3	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	185	<10.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	141	<10.0
PTC6E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	167	<2.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	164	<10.0
PTC7A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,400	<3.6
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,400	<3.6
PTC7B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	992	<3.6
PTC7B-2	<3.6	<3.6	<3.6	<3.6	<3.6	4.4	953	<3.6
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	40.7	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	104	<2.5
PTC8A-2	<2.5	<2.5	<2.5	6.7	<2.5	<2.5	103	<2.5
PTC8B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	227	<2.5
PTC8C-2	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	16.4	<1.0
PTC8D-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	63.9	<3.6
PTC8E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	142	<10.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	683	<50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	979	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	584	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	26.2	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<3.6	<3.6	<3.6	5.0	<3.6	<3.6	<3.6	<3.6
PTC7B-2	<3.6	<3.6	<3.6	5.4	<3.6	<3.6	<3.6	<3.6
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropylbenzene (µg/L)	Bromobenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	n-Propylbenzene (µg/L)	Pentachloroethane (µg/L)	2-Chlorotoluene (µg/L)	1,2,3-Trichloropropane (µg/L)
PTN6-2	<50.0	<50.0	<50.0	79.4	<50.0	121 H	<50.0	<50.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	28.5	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	61.7	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<25.0	<25.0	<25.0	77.7	<25.0	96.0	<25.0	<25.0
PTC1A-1	<25.0	<25.0	<25.0	61.8	<25.0	49.8	<25.0	<25.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<2.5	<2.5	<2.5	2.8	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	85.5	<50.0	79.1	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	55.4	<50.0	113	<50.0	<50.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	121	<50.0	<50.0
PTC2B-1	<2.5	<2.5	<2.5	2.9	<2.5	<2.5	<2.5	<2.5
PTC2B-2	<2.5	<2.5	<2.5	2.8	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	43.5	<25.0	70.9	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	6.8	<2.5	5.1	<2.5	<2.5
PTC3C-1	<100	<100	<100	<100	<100	164	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	78.6	<50.0	138	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	89.1	<50.0	148	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	74.2	<50.0	144	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	242	<100	<100
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	87.5	<50.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	19.7	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	51.9	<25.0	77.5	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	52.7	<50.0	121	<50.0	<50.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-2	<2.5	<2.5	<2.5	8.1	<2.5	3.4 H	<2.5	<2.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<3.6	<3.6	<3.6	9.9	<3.6	<3.6	<3.6	<3.6
PTC7A-2	<3.6	<3.6	<3.6	10.1	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<3.6	<3.6	<3.6	21.8	<3.6	9.3	<3.6	<3.6
PTC7B-2	<3.6	<3.6	<3.6	22.8	<3.6	8.6	<3.6	<3.6
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	6.7	<2.5	4.7	<2.5	<2.5
PTC8A-2	<2.5	<2.5	<2.5	6.8	<2.5	5.3	<2.5	<2.5
PTC8B-1	<2.5	<2.5	<2.5	9.3	<2.5	5.0	<2.5	<2.5
PTC8C-2	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0
PTC8D-2	<3.6	<3.6	<3.6	8.9	<3.6	<3.6	<3.6	<3.6
PTC8E-2	<10.0	<10.0	<10.0	16.1	<10.0	11.0	<10.0	<10.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	53.6	<25.0	40.8	<25.0	<25.0
PTC9C-1	<50.0	<25.0	<50.0	45.0	<50.0	32.1	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTN6-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTN6-2	<50.0	<50.0	775	<50.0	<50.0	<50.0	<50.0	<50.0
PTN7-1	<25.0	<25.0	176	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<50.0	<50.0	82.9	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	91.9	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<25.0	<25.0	372	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<25.0	<25.0	48.9	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	493	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	664	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-2	<50.0	<50.0	604	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	259	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	15.0	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<100	<100	1,510	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	678	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	1,490	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-2	<50.0	<50.0	1,320	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	2,350	<100	<100	<100	<100	<100
PTC5B-1	<50.0	<50.0	1,480	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<25.0	<25.0	259	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	694	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<10.0	<10.0	10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6E-2	<2.5	<2.5	7.9	<2.5	<2.5	<2.5	<2.5	<2.5
PTC6E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-1	<3.6	<3.6	20.0	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7B-2	<3.6	<3.6	13.5	<3.6	<3.6	<3.6	<3.6	<3.6
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	26.6	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8A-2	<2.5	<2.5	28.4	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<2.5	<2.5	27.9	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC8E-2	<10.0	<10.0	48.2	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<50.0	<50.0	76.5	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	141	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<50.0	<50.0	103	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC9D-2	2	5/10/2005	1355	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	1	5/11/2005	1030	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	2	5/11/2005	1030	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	1	5/9/2005	1535	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	2	5/10/2005	750	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-1	1	5/10/2005	810	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-2	2	5/10/2005	810	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10D-1	1	5/10/2005	840	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-2	2	5/10/2005	840	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10E-2	2	5/10/2005	915	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	1	5/10/2005	1545	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	2	5/10/2005	1545	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	1	5/10/2005	1535	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	2	5/10/2005	1535	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	1	5/10/2005	1520	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11C-2	2	5/10/2005	1520	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	2	5/10/2005	1510	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-2	2	5/10/2005	1500	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	2	5/10/2005	1400	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	1	5/9/2005	1230	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	1	5/9/2005	1410	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	1	5/9/2005	1240	<0.5	<0.5	1.1	<0.5	<0.5
PTC12D-1	1	5/9/2005	1330	<0.5	<0.5	1.5	<0.5	<0.5
PTC12E-2	2	5/10/2005	950	<0.5	<0.5	1.8	<0.5	<0.5
PTC12F-1	1	5/11/2005	1335	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	1	5/11/2005	1350	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	1	5/11/2005	1115	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	1	5/11/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	2	5/11/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	1	5/11/2005	1145	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	1	5/11/2005	1300	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	1	5/11/2005	1335	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	1	5/9/2005	1330	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-2	2	5/10/2005	850	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	1	5/9/2005	1435	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	1	5/9/2005	1125	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	2	5/10/2005	925	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	1	5/10/2005	1045	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	2	5/10/2005	1045	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	1	5/10/2005	1100	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	2	5/10/2005	1100	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	1	5/9/2005	1115	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-1	1	5/9/2005	1150	<100	<100	<100	<100	<100
PTZ2D-2	2	5/9/2005	1150	<100	<100	<100	<100	<100
PTZ2E-1	1	5/9/2005	1220	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	2	5/9/2005	1220	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	1	5/10/2005	1400	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	1	5/11/2005	930	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ4C-1	1	5/12/2005	1100	<2.5	<2.5	<2.5	<2.5	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC9D-2	<10.0	<10.0	20.3	<10.0	<10.0	<10.0	<10.0	3,030
PTC9E-1	<10.0	<10.0	14.6	<10.0	<10.0	<10.0	<10.0	>5,000
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	7,340
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
PTC10B-2	<10.0	<10.0	22.5	<10.0	<10.0	<10.0	<10.0	4,220
PTC10C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	486
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	516
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	50.2
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	39.8
PTC10E-2	<10.0	<10.0	26.8	<10.0	<10.0	<10.0	<10.0	3,820
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,500
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,560
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2,950
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,090
PTC11C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,030
PTC11C-2	<25.0	<25.0	27.3	<25.0	<25.0	<25.0	<25.0	4,140
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2,770
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2,460
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,300
PTC12A-1	<10.0	<10.0	<10.0	16.7	<10.0	<10.0	598	1,960
PTC12B-1	<3.6	4.0	5.6	17.0	<3.6	<3.6	202	1,100
PTC12C-1	<0.5	1.8	2.0	5.5	0.7	<0.5	162	188
PTC12D-1	<0.5	1.0	1.1	3.1	<0.5	<0.5	65.1	139
PTC12E-2	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	65.8	164
PTC12F-1	<0.5	<0.5	<0.5	2.7	0.9	<0.5	5.8	1.8
PTC12F-1	<0.5	1.0	<0.5	5.4	1.2	<0.5	10.0	3.0
PTC13A-1	<50.0	<50.0	97.5	<50.0	<50.0	<50.0	<50.0	7,120
PTC13B-1	<10.0	<10.0	20.6	<10.0	<10.0	<10.0	<10.0	2,940
PTC13B-2	<10.0	<10.0	24.4	<10.0	<10.0	<10.0	<10.0	2,600
PTC13B-1	<10.0	<10.0	26.1	<10.0	<10.0	<10.0	<10.0	2,860
PTC13C-1	<10.0	<10.0	26.6	<10.0	<10.0	<10.0	<10.0	2,150
PTC13D-1	<10.0	<10.0	12.1	<10.0	<10.0	<10.0	<10.0	1,110
PTZ1A-1	<2.5	6.4	<2.5	23.6	2.9	<2.5	12.3	1,120
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,850
PTZ1D-1	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,950
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0
PTZ2C-1	<2.5	<2.5	<2.5	9.5	<2.5	<2.5	38.2	<2.5
PTZ2D-1	<100	<100	165	<100	<100	<100	<100	8,250
PTZ2D-2	<100	<100	197	<100	<100	<100	<100	9,120
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2,340
PTZ2E-2	<50.0	<50.0	55.0	<50.0	<50.0	<50.0	<50.0	3,750
PTZ4A-1	<0.5	1.4	<0.5	5.4	0.6	<0.5	57.6	3.7
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	24.4
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	645

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC9D-2	<10.0	<10.0	<10.0	997	<10.0	<10.0	57.2	<10.0
PTC9E-1	<10.0	<10.0	<10.0	>5,000	H <10.0	12.3 H <10.0	48.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	8,720	<50.0	<50.0	53.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	125	<10.0	<10.0	114	<10.0
PTC10B-2	<10.0	<10.0	<10.0	4,580	<10.0	<10.0	68.5	<10.0
PTC10C-1	<10.0	<10.0	<10.0	328	<10.0	<10.0	41.0	<10.0
PTC10C-2	<10.0	<10.0	<10.0	323	<10.0	<10.0	44.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	16.8	<3.6	<3.6	6.0	<3.6
PTC10D-2	<1.7	<1.7	<1.7	22.9	<1.7	<1.7	4.2	<1.7
PTC10E-2	<10.0	<10.0	<10.0	4,020	<10.0	<10.0	62.2	<10.0
PTC11A-1	<25.0	<25.0	<25.0	5,200	<25.0	<25.0	41.7	<25.0
PTC11A-2	<25.0	<25.0	<25.0	5,260	<25.0	<25.0	36.6	<25.0
PTC11B-1	<50.0	<50.0	<50.0	6,420	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	6,590	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<25.0	<25.0	<25.0	9,540	48.8	<25.0	70.1	<25.0
PTC11C-2	<25.0	<25.0	<25.0	9,610	<25.0	<25.0	76.1	<25.0
PTC11D-2	<25.0	<25.0	<25.0	6,180	<25.0	<25.0	43.6	<25.0
PTC11E-2	<50.0	<50.0	<50.0	4,230	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	12,100	<50.0	<50.0	63.6	<50.0
PTC12A-1	<10.0	<10.0	<10.0	409	<10.0	<10.0	395	<10.0
PTC12B-1	<3.6	<3.6	<3.6	721	<3.6	4.0	644	<3.6
PTC12C-1	<0.5	<0.5	<0.5	6.5	<0.5	0.8	249	<0.5
PTC12D-1	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	86.3	<0.5
PTC12E-2	<0.5	<0.5	<0.5	2.7	<0.5	0.6	70.2	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	0.7	0.6 H	19.8	<0.5
PTC13A-1	<50.0	<50.0	<50.0	12,700	H <50.0	<50.0	70.8	<50.0
PTC13B-1	<10.0	<10.0	<10.0	4,560	H <10.0	<10.0	134	<10.0
PTC13B-2	<10.0	<10.0	<10.0	3,990	<10.0	<10.0	122	<10.0
PTC13B-1	<10.0	<10.0	<10.0	4,530	H <10.0	<10.0	148	<10.0
PTC13C-1	<10.0	<10.0	<10.0	1,340	H <10.0	<10.0	117	<10.0
PTC13D-1	<10.0	<10.0	<10.0	283	H <10.0	<10.0	73.2	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	7.8	<2.5	227	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	4,080	43.0	<25.0	62.5	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	<10.0	<10.0	<10.0	676	<10.0	<10.0	14.9	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	87.6	<2.5
PTZ2D-1	<100	<100	<100	19,700	<100	<100	<100	<100
PTZ2D-2	<100	<100	<100	21,400	<100	<100	<100	<100
PTZ2E-1	<50.0	<50.0	<50.0	2,850	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	<50.0	<50.0	<50.0	6,490	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	7.1	0.7	<0.5	75.7	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	17.0	H <1.7	<1.7	5.8	<1.7
PTZ4C-1	<2.5	<2.5	<2.5	591	H <2.5	<2.5	3.2	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	255	<10.0
PTC9E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	475	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	482	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,240	<10.0
PTC10B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	658	<10.0
PTC10C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	70.4	<10.0
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	74.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	12.3	<3.6
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	14.9	<1.7
PTC10E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	360	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	298	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	326	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	382	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	392	<50.0
PTC11C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	784	<25.0
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	720	<25.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	351	<25.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	253	<50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	888	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	954	<10.0
PTC12B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,480	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.9	<0.5
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18.4	<0.5
PTC12E-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.6	<0.5
PTC12F-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	5.1	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33.6	<0.5
PTC13A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	927	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,500	<10.0
PTC13B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,330	<10.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,550	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,110	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	496	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	750	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	359	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	1.0	<0.5
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	54.9	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	483	<2.5
PTZ2D-1	<100	<100	<100	<100	<100	<100	1,300	<100
PTZ2D-2	<100	<100	<100	<100	<100	<100	1,210	<100
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	217	<50.0
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	418	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20.9	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	33.0	<1.7
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	23.0	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	17.2	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<10.0	<10.0	<10.0	14.1	<10.0	<10.0	<10.0	<10.0
PTC10C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<3.6	<3.6	<3.6	5.8	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	12.7	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	12.8	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	<10.0	15.9	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2D-2	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC9D-2	<10.0	<10.0	<10.0	37.3	<10.0	13.7	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	54.7	<10.0	70.9	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	78.3	<50.0	70.2	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	33.3	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<10.0	<10.0	<10.0	45.9	<10.0	71.8	<10.0	<10.0
PTC10C-1	<10.0	<10.0	<10.0	14.0	<10.0	<10.0	<10.0	<10.0
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10E-2	<10.0	<10.0	<10.0	49.7	<10.0	62.4	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	64.4	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	50.8	<25.0	74.3	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	58.1	<50.0	81.2	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	61.6	<50.0	80.8	<50.0	<50.0
PTC11C-1	<25.0	<25.0	<25.0	66.9	<25.0	108	<25.0	<25.0
PTC11C-2	<25.0	<25.0	<25.0	74.8	<25.0	118	<25.0	<25.0
PTC11D-2	<25.0	<25.0	<25.0	46.4	<25.0	66.3	<25.0	<25.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	90.9	<50.0	122	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	50.9	<10.0	12.7	<10.0	<10.0
PTC12B-1	<3.6	<3.6	<3.6	37.7	<3.6	29.0	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<50.0	<50.0	<50.0	65.2	<50.0	161	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	61.9	<10.0	75.5	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	64.3	<10.0	66.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	<10.0	62.8	<10.0	73.3	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	21.7	<10.0	29.2	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	28.5	<10.0	14.9	<10.0	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	22.9	<2.5	<2.5	<2.5	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	58.2	<25.0	27.2	<25.0	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	8.7	<2.5	<2.5	<2.5	<2.5
PTZ2D-1	<100	<100	<100	<100	<100	204	<100	<100
PTZ2D-2	<100	<100	<100	<100	<100	219	<100	<100
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ4C-1	<2.5	<2.5	<2.5	5.4	<2.5	3.1	<2.5	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2D-2	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butylbenzene (µg/L)	1,2-Dichlorobenzene (µg/L)	Hexachloroethane (µg/L)	1,2-Dibromo-3-chloropropane (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachlorobutadiene (µg/L)	Naphthalene (µg/L)	1,2,3-Trichlorobenzene (µg/L)
PTC9D-2	<10.0	<10.0	57.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<10.0	<10.0	897	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-2	<50.0	<50.0	767	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<10.0	<10.0	467	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10E-2	<10.0	<10.0	664	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	987	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	1,080	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<50.0	<50.0	1,340	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-2	<50.0	<50.0	1,460	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<25.0	<25.0	2,640	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11C-2	<25.0	<25.0	2,020	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<25.0	<25.0	1,130	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-2	<50.0	<50.0	588	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	2,620	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<3.6	<3.6	32.7	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<50.0	<50.0	1,320	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	1,030	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-2	<10.0	<10.0	856	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	1,030	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	116	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<10.0	<10.0	33.6	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<25.0	<25.0	175	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-2	<10.0	<10.0	15.4	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2D-1	<100	<100	2,080	<100	<100	<100	<100	<100
PTZ2D-2	<100	<100	2,150	<100	<100	<100	<100	<100
PTZ2E-1	<50.0	<50.0	253	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ2E-2	<50.0	<50.0	525	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ4C-1	<2.5	<2.5	17.9	<2.5	<2.5	<2.5	<2.5	<2.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTZ4C-1	1	5/12/2005	1045	<100	<100	<100	<100	<100
PTZ4C-2	2	5/12/2005	1100	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1B-1	1	6/20/2005	--	<1.0	<0.5	3.0	<0.5	<0.5
PTB1C-1	1	6/20/2005	--	<1.0	<0.5	<0.5	<0.5	<0.5
PTB2B-1	1	6/20/2005	--	<1.0	<0.5	<0.5	<0.5	<0.5
PTB2C-1	1	6/20/2005	--	<2.0	<1.0	8.5	<1.0	<1.0
PTB3B-1	1	6/20/2005	--	<1.0	<0.5	<0.5	<0.5	<0.5
PTB3C-1	1	6/20/2005	--	<1.0	<0.5	3.0	<0.5	<0.5
PTB4B	1MA	6/20/2005	--	<100	<50.0	<50.0	<50.0	<50.0
PTB4B	1MA	6/20/2005	--	<20.0	<10.0	<10.0	<10.0	<10.0
PTB5B	1MA	6/20/2005	--	<100	<50.0	<50.0	<50.0	<50.0
PTB6B-1	1	6/20/2005	--	<1.0	<0.5	0.8	<0.5	<0.5
PTB6C-1	1	6/20/2005	--	<3.4	<1.7	4.2	<1.7	<1.7
PTB7B-1	1	6/20/2005	--	<1.0	1.0	<0.5	<0.5	<0.5
PTB7C-1	1MA	6/20/2005	--	<20.0	<10.0	144	<10.0	<10.0
PTB8B-1	1	6/20/2005	--	<1.0	<0.5	3.3	<0.5	<0.5
PTB8C-1	1	6/20/2005	--	<5.0	<2.5	11.3	<2.5	<2.5
PTB9B-1	1	6/20/2005	--	<100	<50.0	<50.0	<50.0	<50.0
PTB9C-1	1MA	6/20/2005	--	<100	<50.0	<50.0	<50.0	<50.0
PTN1-1	1	6/16/2005	937	<100	<50.0	<50.0	<50.0	<50.0
PTN2-1	1	6/16/2005	1000	<50.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	1	6/16/2005	1021	<50.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	1	6/16/2005	957	<100	<50.0	<50.0	<50.0	<50.0
PTN5-1	1	6/16/2005	1013	<100	<50.0	<50.0	<50.0	<50.0
PTN6-1	1	6/16/2005	1034	<100	<50.0	<50.0	<50.0	<50.0
PTN7-1	1	6/16/2005	1010	<20.0	<10.0	<10.0	<10.0	<10.0
PTN8-1	1	6/16/2005	1024	<100	<50.0	<50.0	<50.0	<50.0
PTN8-2	2	6/16/2005	1024	<100	<50.0	<50.0	<50.0	<50.0
PTN9-1	1	6/16/2005	1040	<100	<50.0	<50.0	<50.0	<50.0
PTN9-2	2	6/16/2005	1024	<50.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	1	6/23/2005	1400	<100	<50.0	<50.0	<50.0	<50.0
PTC1B-1	1	6/24/2005	835	<5.0	<2.5	<2.5	<2.5	<2.5
PTC1C-1	1	6/24/2005	1040	<100	<50.0	<50.0	<50.0	<50.0
PTC1C-2	2	6/24/2005	1040	<100	<50.0	<50.0	<50.0	<50.0
PTC2A-1	1	6/23/2005	1313	<100	<50.0	<50.0	<50.0	<50.0
PTC2A-1	1	6/30/2005	920	<100	<50.0	<50.0	<50.0	<50.0
PTC2B-1	1	6/28/2005	815	<5.0	<2.5	<2.5	<2.5	<2.5
PTC2C-1	1	6/24/2005	1315	<1.0	<0.5	<0.5	<0.5	<0.5
PTC3A-1	1	6/24/2005	740	<50.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	1	6/24/2005	805	<5.0	<2.5	<2.5	<2.5	<2.5
PTC3B-2	2	6/24/2005	805	<5.0	<2.5	<2.5	<2.5	<2.5
PTC3C-1	1	6/24/2005	840	<200	<100	<100	<100	<100
PTC4A-1	1	6/23/2005	917	<100	<50.0	<50.0	<50.0	<50.0
PTC4A-2	2	6/23/2005	917	<100	<50.0	<50.0	<50.0	<50.0
PTC4A-1	1	6/30/2005	920	<100	<50.0	<50.0	<50.0	<50.0
PTC4A-2	2	6/30/2005	920	<100	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	550
PTZ4C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	>500
PTB1B-1	<0.5	<0.5	1.1	0.5	<0.5	<0.5	1.6	<0.5
PTB1C-1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTB2C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.8	<1.0
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	2.6	<0.5
PTB4B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB4B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	2.0	<1.7
PTB7B-1	<0.5	<0.5	23.4	11.8	3.1	2.2	15.6	67.0
PTB7C-1	<10.0	<10.0	166	10.5	<10.0	<10.0	187	157
PTB8B-1	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	6.3	<0.5
PTB8C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	20.4	<2.5
PTB9B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	161	<50.0	<50.0	<50.0	<50.0	8,010
PTN2-1	<25.0	<25.0	204	<25.0	<25.0	<25.0	51.7	9,280
PTN3-1	<25.0	<25.0	199	<25.0	<25.0	<25.0	<25.0	7,210
PTN4-1	<50.0	<50.0	446	<50.0	<50.0	<50.0	<50.0	8,290
PTN5-1	<50.0	<50.0	124	<50.0	<50.0	<50.0	<50.0	6,250
PTN6-1	<50.0	<50.0	426	<50.0	<50.0	<50.0	<50.0	6,590
PTN7-1	<10.0	<10.0	491	<10.0	<10.0	<10.0	<10.0	>5,000
PTN8-1	<50.0	<50.0	1,460	<50.0	<50.0	<50.0	<50.0	6,250
PTN8-2	<50.0	<50.0	1,420	<50.0	<50.0	<50.0	<50.0	6,050
PTN9-1	<50.0	<50.0	135	<50.0	<50.0	<50.0	<50.0	5,440
PTN9-2	<25.0	<25.0	134	<25.0	<25.0	<25.0	<25.0	5,430
PTC1A-1	<50.0	<50.0	99.8	<50.0	<50.0	<50.0	<50.0	9,640
PTC1B-1	<2.5	<2.5	7.1	3.3	<2.5	<2.5	3.9	647
PTC1C-1	<50.0	<50.0	67.8	<50.0	<50.0	<50.0	<50.0	9,440
PTC1C-2	<50.0	<50.0	77.4	<50.0	<50.0	<50.0	<50.0	9,490
PTC2A-1	<50.0	<50.0	168	<50.0	<50.0	<50.0	<50.0	8,500
PTC2A-1	<50.0	<50.0	159	<50.0	<50.0	<50.0	<50.0	8,610
PTC2B-1	<2.5	<2.5	5.2	<2.5	<2.5	<2.5	<2.5	128
PTC2C-1	<0.5	<0.5	5.5	0.8	<0.5	<0.5	5.3	20.2
PTC3A-1	<25.0	<25.0	103	<25.0	<25.0	<25.0	<25.0	7,060
PTC3B-1	<2.5	<2.5	5.7	<2.5	3.3	<2.5	3.0	346
PTC3B-2	<2.5	<2.5	6.0	2.9	3.4	<2.5	2.7	363
PTC3C-1	<100	<100	117	<100	<100	<100	<100	9,840
PTC4A-1	<50.0	<50.0	118	<50.0	<50.0	<50.0	<50.0	11,600
PTC4A-2	<50.0	<50.0	118	<50.0	<50.0	<50.0	<50.0	11,100
PTC4A-1	<50.0	<50.0	134	<50.0	<50.0	<50.0	<50.0	11,200
PTC4A-2	<50.0	<50.0	129	<50.0	<50.0	<50.0	<50.0	11,000

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTZ4C-1	<100	<100	<100	412	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	<1.0	461	<1.0	<1.0	3.2	<1.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	1.5	1.6	0.5	<0.5
PTB1C-1	<0.5	<0.5	<0.5	<0.5	2.2	2.2	<0.5	<0.5
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
PTB2C-1	<1.0	<1.0	<1.0	<1.0	1.8	3.2	<1.0	<1.0
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<0.5	<0.5	<0.5	<0.5	2.0	2.1	<0.5	<0.5
PTB4B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB4B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	1.9	3.2	<1.7	<1.7
PTB7B-1	<0.5	<0.5	<0.5	<0.5	2.8	5.6	10.1	<0.5
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	21.8	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	0.9	1.0	0.6	<0.5
PTB8C-1	<2.5	<2.5	<2.5	<2.5	<2.5	4.5	<2.5	<2.5
PTB9B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	1,170	<50.0	<50.0	145	<50.0
PTN2-1	<25.0	<25.0	<25.0	1,020	<25.0	<25.0	225	<25.0
PTN3-1	<25.0	<25.0	<25.0	865	<25.0	<25.0	209	<25.0
PTN4-1	<50.0	<50.0	<50.0	3,600	<50.0	<50.0	91.4	<50.0
PTN5-1	<50.0	<50.0	<50.0	233	<50.0	<50.0	351	<50.0
PTN6-1	<50.0	<50.0	<50.0	3,900	<50.0	<50.0	92.4	<50.0
PTN7-1	<10.0	<10.0	<10.0	2,180	<10.0	<10.0	76.8	<10.0
PTN8-1	<50.0	<50.0	<50.0	912	<50.0	<50.0	217	<50.0
PTN8-2	<50.0	<50.0	<50.0	914	<50.0	<50.0	199	<50.0
PTN9-1	<50.0	<50.0	<50.0	5,460	<50.0	<50.0	79.5	<50.0
PTN9-2	<25.0	<25.0	<25.0	5,460	<25.0	<25.0	75.4	<25.0
PTC1A-1	<50.0	<50.0	<50.0	2,500	<50.0	<50.0	141	<50.0
PTC1B-1	<2.5	<2.5	<2.5	106	<2.5	<2.5	58.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	4,900	<50.0	<50.0	79.8	<50.0
PTC1C-2	<50.0	<50.0	<50.0	5,010	<50.0	<50.0	70.6	<50.0
PTC2A-1	<50.0	<50.0	<50.0	7,350	<50.0	<50.0	75.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	8,120	<50.0	<50.0	89.2	<50.0
PTC2B-1	<2.5	<2.5	<2.5	10.8	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19.7	<0.5
PTC3A-1	<25.0	<25.0	<25.0	3,940	<25.0	<25.0	99.7	<25.0
PTC3B-1	<2.5	<2.5	<2.5	147	<2.5	<2.5	69.1	<2.5
PTC3B-2	<2.5	<2.5	<2.5	154	<2.5	<2.5	69.5	<2.5
PTC3C-1	<100	<100	<100	8,730	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	11,600	<50.0	<50.0	102	<50.0
PTC4A-2	<50.0	<50.0	<50.0	10,900	<50.0	<50.0	92.1	<50.0
PTC4A-1	<50.0	<50.0	<50.0	11,300	<50.0	<50.0	116	<50.0
PTC4A-2	<50.0	<50.0	<50.0	11,000	<50.0	<50.0	107	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22.7	<1.0
PTB1B-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB2B-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.0	<1.0	<1.0	> 500	<1.0	<1.0	<1.0	<1.0
PTB3B-1	<0.5	<0.5	<0.5	104	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB4B	<50.0	<50.0	<50.0	3,000	<50.0	<50.0	<50.0	<50.0
PTB4B	<10.0	<10.0	<10.0	2,700	<10.0	<10.0	<10.0	<10.0
PTB5B	<50.0	<50.0	<50.0	1,450	<50.0	<50.0	<50.0	<50.0
PTB6B-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	> 833	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<0.5	<0.5	<0.5	232	<0.5	1.2	1.1	<0.5
PTB7C-1	<10.0	<10.0	<10.0	106	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<2.5	<2.5	<2.5	> 1,250	<2.5	<2.5	<2.5	<2.5
PTB9B-1	<50.0	<50.0	<50.0	65.8	<50.0	<50.0	<50.0	<50.0
PTB9C-1	<50.0	<50.0	<50.0	5,680	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	179	<50.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	938	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,260	<25.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	239	<50.0
PTN5-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	829	<50.0
PTN6-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	513	<50.0
PTN7-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	342	<10.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	756	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	773	<50.0
PTN9-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	976	<50.0
PTN9-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	956	<25.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,260	<50.0
PTC1B-1	<2.5	<2.5	<2.5	2.8	<2.5	<2.5	32.1	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	669	<50.0
PTC1C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	680	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,010	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,170	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	3.6	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	522	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	82.0	<2.5
PTC3B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	79.4	<2.5
PTC3C-1	<100	<100	<100	<100	<100	<100	312	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,330	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,250	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,520	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,430	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0
PTB1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB3B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB3C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB4B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB4B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB5B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTB7B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB7C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN6-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN7-1	<10.0	<10.0	<10.0	11.1	<10.0	<10.0	<10.0	<10.0
PTN8-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN8-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN9-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropylbenzene (µg/L)	Bromobenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	n-Propylbenzene (µg/L)	Pentachloroethane (µg/L)	2-Chlorotoluene (µg/L)	1,2,3-Trichloropropane (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	<1.0	2.4	<1.0	3.0	<1.0	<1.0
PTB1B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1C-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2C-1	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTB3B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB3C-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B	<100	<50.0	<100	<100	<100	<100	<100	<100
PTB4B	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTB5B	<100	<50.0	<100	<100	<100	<100	<100	<100
PTB6B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB6C-1	<3.4	<1.7	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTB7B-1	<1.0	<0.5	<1.0	5.3	<1.0	<1.0	<1.0	<1.0
PTB7C-1	<20.0	<10.0	<20.0	12.5	<20.0	<20.0	<20.0	<20.0
PTB8B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB8C-1	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTB9B-1	<100	<50.0	<100	<100	<100	<100	<100	<100
PTB9C-1	<100	<50.0	<100	<100	<100	<100	<100	<100
PTN1-1	<100	<50.0	<100	69.1	<100	<100	<100	<100
PTN2-1	<50.0	<25.0	<50.0	68.9	<50.0	26.5	<50.0	<50.0
PTN3-1	<50.0	<25.0	<50.0	78.6	<50.0	<25.0	<50.0	<50.0
PTN4-1	<100	<50.0	<100	59.1	<100	60.9	<100	<100
PTN5-1	<100	<50.0	<100	<100	<100	<100	<100	<100
PTN6-1	<100	<50.0	<100	60.0	<100	60.7	<100	<100
PTN7-1	<20.0	<10.0	<20.0	45.4	<20.0	34.2	<20.0	<20.0
PTN8-1	<100	<50.0	<100	59.7	<100	<100	<100	<100
PTN8-2	<100	<50.0	<100	70.1	<100	<50.0	<100	<100
PTN9-1	<100	<50.0	<100	65.2	<100	89.0	<100	<100
PTN9-2	<50.0	<25.0	<50.0	79.9	<50.0	87.3	<50.0	<50.0
PTC1A-1	<100	<50.0	<100	73.2 H	<100	<50.0	<100	<100
PTC1B-1	<5.0	<2.5	<5.0	2.7 H	<5.0	<5.0	<5.0	<5.0
PTC1C-1	<100	<50.0	<100	73.3 H	<100	<50.0	<100	<100
PTC1C-2	<100	<50.0	<100	77.2 H	<100	<50.0	<100	<100
PTC2A-1	<100	<50.0	<100	<100	<100	61.6	<100	<100
PTC2A-1	<100	<50.0	<100	67.3	<100	87.5	<100	<100
PTC2B-1	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC2C-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3A-1	<50.0	<25.0	<50.0	48.2 H	<50.0	37.6	<50.0	<50.0
PTC3B-1	<5.0	<2.5	<5.0	4.8 H	<5.0	<2.5	<5.0	<5.0
PTC3B-2	<5.0	<2.5	<5.0	5.5 H	<5.0	<2.5	<5.0	<5.0
PTC3C-1	<200	<100	<200	<200	<200	<200	<200	<200
PTC4A-1	<100	<50.0	<100	87.9 H	<100	95.9	<100	<100
PTC4A-2	<100	<50.0	<100	92.0 H	<100	88.7	<100	<100
PTC4A-1	<100	<50.0	<100	87.3	<100	109	<100	<100
PTC4A-2	<100	<50.0	<100	87.3	<100	108	<100	<100

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTB3B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B	<100	<100	<100	<100	<100	<100	<100	<100
PTB4B	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTB5B	<100	<100	<100	<100	<100	<100	<100	<100
PTB6B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB6C-1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTB7B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB7C-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTB8B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB8C-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTB9B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTB9C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN1-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN2-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN3-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN5-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN6-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN7-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTN8-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN8-2	<100	<100	<100	<100	<100	<100	<100	<100
PTN9-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN9-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC1B-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC1C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC1C-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC2A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC2A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC2B-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC2C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC3B-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC3B-2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC3C-1	<200	<200	<200	<200	<200	<200	<200	<200
PTC4A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4A-2	<100	<100	<100	<100	<100	<100	<100	<100

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTZ4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ4C-2	<1.0	<1.0	16.2	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB1C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB2C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTB3B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB3C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB4B	<100	<100	<100	<100	<100	<100	<100	<100
PTB4B	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTB5B	<100	<100	<100	<100	<100	<100	<100	<100
PTB6B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB6C-1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTB7B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB7C-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTB8B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB8C-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTB9B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTB9C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTN1-1	<100	<100	51.6	<200	<100	<100	<100	<100
PTN2-1	<50.0	<50.0	31.8	<100	<50.0	<50.0	<50.0	<50.0
PTN3-1	<50.0	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0
PTN4-1	<100	<100	276	<200	<100	<100	<100	<100
PTN5-1	<100	<100	<100	<200	<100	<100	<100	<100
PTN6-1	<100	<100	481	<200	<100	<100	<100	<100
PTN7-1	<20.0	<20.0	213	<40.0	<20.0	<20.0	<20.0	<20.0
PTN8-1	<100	<100	91.9	<200	<100	<100	<100	<100
PTN8-2	<100	<100	78.5	<100	<100	<100	<100	<100
PTN9-1	<100	<100	819	<200	<100	<100	<100	<100
PTN9-2	<50.0	<50.0	766	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	<100	<100	<50.0	<100	<100	<100	<100	<100
PTC1B-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC1C-1	<100	<100	274	<100	<100	<100	<100	<100
PTC1C-2	<100	<100	282	<100	<100	<100	<100	<100
PTC2A-1	<100	<100	483	<100	<100	<100	<100	<100
PTC2A-1	<100	<100	565	<100	<100	<100	<100	<100
PTC2B-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC2C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3A-1	<50.0	<50.0	172	<50.0	<50.0	<50.0	<50.0	<50.0
PTC3B-1	<5.0	<5.0	6.9	<5.0	<5.0	<5.0	<5.0	<5.0
PTC3B-2	<5.0	<5.0	7.1	<5.0	<5.0	<5.0	<5.0	<5.0
PTC3C-1	<200	<200	958	<200	<200	<200	<200	<200
PTC4A-1	<100	<100	933	<100	<100	<100	<100	<100
PTC4A-2	<100	<100	901	<100	<100	<100	<100	<100
PTC4A-1	<100	<100	918	<100	<100	<100	<100	<100
PTC4A-2	<100	<100	909	<100	<100	<100	<100	<100

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC4B-1	1	6/23/2005	1027	<100	<50.0	<50.0	<50.0	<50.0
PTC4C-1	1	6/23/2005	1105	<200	<100	<100	<100	<100
PTC5A-1	1	6/24/2005	1100	<20.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	1	6/24/2005	1126	<100	<50.0	<50.0	<50.0	<50.0
PTC5C-1	1	6/24/2005	1415	<2.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	1	6/22/2005	1244	<100	<50.0	<50.0	<50.0	<50.0
PTC6A-2	2	6/22/2005	1244	<100	<50.0	<50.0	<50.0	<50.0
PTC6B-1	1	6/22/2005	1315	<100	<50.0	<50.0	<50.0	<50.0
PTC6C-1	1	6/23/2005	850	<2.0	<1.0	<1.0	<1.0	<1.0
PTC6C-2	2	6/23/2005	850	<20.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	1	6/28/2005	710	<1.0	<0.5	<0.5	<0.5	<0.5
PTC6D-2	2	6/28/2005	710	<1.0	<0.5	<0.5	<0.5	<0.5
PTC6E-1	1	6/23/2005	1030	<20.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	1	6/23/2005	750	<20.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	1	6/23/2005	815	<20.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	1	6/23/2005	850	<1.0	<0.5	<0.5	<0.5	<0.5
PTC7D-1	1	6/23/2005	910	<1.0	<0.5	<0.5	<0.5	<0.5
PTC8A-1	1	6/21/2005	935	<5.0	<2.5	<2.5	<2.5	<2.5
PTC8A-2	2	6/21/2005	935	<5.0	<2.5	<2.5	<2.5	<2.5
PTC8B-1	1	6/21/2005	1000	<20.0	<10.0	<10.0	<10.0	<10.0
PTC8B-2	2	6/21/2005	1000	<5.0	<2.5	<2.5	<2.5	<2.5
PTC8C-1	1	6/20/2005	1025	<1.0	<0.5	<0.5	<0.5	<0.5
PTC8D-1	1	6/21/2005	1055	<5.0	<2.5	<2.5	<2.5	<2.5
PTC8E-1	1	6/21/2005	1115	<20.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	1	6/22/2005	810	<50.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	1	6/22/2005	840	<50.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	1	6/22/2005	855	<50.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	1	6/22/2005	925	<20.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	2	6/22/2005	925	<20.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	1	6/22/2005	955	<100	<50.0	<50.0	<50.0	<50.0
PTC10A-1	1	6/20/2005	1215	<20.0	<10.0	<10.0	<10.0	<10.0
PTC10A-1	1	6/20/2005	1405	<20.0	<10.0	<10.0	<10.0	<10.0
PTC10A-2	2	6/20/2005	1405	<20.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	1	6/20/2005	1150	<20.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	1	6/21/2005	1425	<20.0	<10.0	<10.0	<10.0	<10.0
PTC10C-1	1	6/20/2005	1025	<3.4	<1.7	2.0	<1.7	<1.7
PTC10C-1	1	6/20/2005	1525	<5.0	<2.5	<2.5	<2.5	<2.5
PTC10D-1	1	6/20/2005	1130	<1.0	<0.5	<0.5	<0.5	<0.5
PTC10E-1	1	6/20/2005	1340	<20.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	1	6/20/2005	1537	<50.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	2	6/20/2005	1537	<50.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	1	6/21/2005	925	<50.0	<25.0	<25.0	<25.0	<25.0
PTC11C-1	1	6/21/2005	1025	<100	<50.0	<50.0	<50.0	<50.0
PTC11C-2	2	6/21/2005	1025	<50.0	<25.0	<25.0	<25.0	<25.0
PTC11D-1	1	6/21/2005	1100	<50.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	1	6/21/2005	1140	<20.0	<10.0	<10.0	<10.0	<10.0
PTC11F-1	1	6/21/2005	1218	<100	<50.0	<50.0	<50.0	<50.0
PTC12A-1	1	6/20/2005	850	<20.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC4B-1	<50.0	<50.0	100	<50.0	<50.0	<50.0	<50.0	10,400
PTC4C-1	<100	<100	115	<100	<100	<100	<100	10,800
PTC5A-1	<10.0	<10.0	65.8	<10.0	<10.0	<10.0	<10.0	4,650
PTC5B-1	<50.0	<50.0	69.8	<50.0	<50.0	<50.0	<50.0	5,150
PTC5C-1	<1.0	1.2	4.2	4.1	2.0	<1.0	4.5	163
PTC6A-1	<50.0	<50.0	136	<50.0	<50.0	<50.0	<50.0	13,100
PTC6A-2	<50.0	<50.0	171	<50.0	<50.0	<50.0	<50.0	13,400
PTC6B-1	<50.0	<50.0	182	<50.0	<50.0	<50.0	<50.0	13,200
PTC6C-1	<1.0	1.6	32.7	2.4	1.2	<1.0	22.2	>500
PTC6C-2	<10.0	<10.0	32.5	<10.0	<10.0	<10.0	21.0	2,090
PTC6D-1	<0.5	<0.5	1.7	1.1	<0.5	<0.5	6.5	90.4
PTC6D-2	<0.5	0.5	1.7	1.1	<0.5	<0.5	6.4	89.8
PTC6E-1	<10.0	<10.0	13.9	<10.0	<10.0	<10.0	12.3	488
PTC7A-1	<10.0	<10.0	13.2	19.0	<10.0	<10.0	10.9	351
PTC7B-1	<10.0	<10.0	26.5	15.6	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	2.5	18.9
PTC7D-1	<0.5	0.8	0.7	2.5	<0.5	<0.5	6.2	52.6
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	551
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	570
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	300
PTC8B-2	<2.5	<2.5	<2.5	5.2	<2.5	<2.5	4.9	333
PTC8C-1	<0.5	0.6	0.5	2.1	0.7	<0.5	2.8	90.8
PTC8D-1	<2.5	<2.5	<2.5	3.2	<2.5	<2.5	4.9	562
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,010
PTC9A-1	<25.0	<25.0	36.9	<25.0	<25.0	<25.0	<25.0	8,580
PTC9B-1	<25.0	<25.0	47.9	<25.0	<25.0	<25.0	<25.0	5,650
PTC9C-1	<25.0	<25.0	49.6	<25.0	<25.0	<25.0	<25.0	5,490
PTC9D-1	<10.0	<10.0	19.7	<10.0	<10.0	<10.0	<10.0	3,060
PTC9D-2	<10.0	<10.0	17.7	<10.0	<10.0	<10.0	<10.0	3,080
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	5,120
PTC10A-1	<10.0	<10.0	<10.0	16.7	<10.0	<10.0	10.0	946
PTC10A-1	<10.0	<10.0	<10.0	10.1	<10.0	<10.0	<10.0	911
PTC10A-2	<10.0	<10.0	10.9	10.9	<10.0	<10.0	10.9	883
PTC10B-1	<10.0	<10.0	29.0	<10.0	<10.0	<10.0	<10.0	4,080
PTC10B-1	<10.0	<10.0	32.5	<10.0	<10.0	<10.0	<10.0	4,190
PTC10C-1	<1.7	<1.7	8.1	3.2	<1.7	<1.7	8.4	819
PTC10C-1	<2.5	<2.5	<2.5	6.0	<2.5	<2.5	10.3	216
PTC10D-1	<0.5	<0.5	3.8	1.3	<0.5	<0.5	4.1	228
PTC10E-1	<10.0	<10.0	29.5	<10.0	<10.0	<10.0	<10.0	3,060
PTC11A-1	<25.0	<25.0	27.0	<25.0	<25.0	<25.0	<25.0	4,400
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,100
PTC11B-1	<25.0	<25.0	27.8	<25.0	<25.0	<25.0	<25.0	4,870
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,880
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,870
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,080
PTC11E-1	<10.0	<10.0	19.7	<10.0	<10.0	<10.0	<10.0	3,810
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	5,020
PTC12A-1	<10.0	<10.0	10.0	12.9	<10.0	<10.0	280	2,900

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC4B-1	<50.0	<50.0	<50.0	12,700	<50.0	<50.0	107	<50.0
PTC4C-1	<100	<100	<100	16,000	<100	<100	<100	<100
PTC5A-1	<10.0	<10.0	<10.0	3,850	10.9	10.9	130	<10.0
PTC5B-1	<50.0	<50.0	<50.0	7,140	<50.0	<50.0	73.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	8.5	<1.0	2.2	48.6	<1.0
PTC6A-1	<50.0	<50.0	<50.0	9,820	<50.0	<50.0	86.0	<50.0
PTC6A-2	<50.0	<50.0	<50.0	9,910	<50.0	<50.0	91.7	<50.0
PTC6B-1	<50.0	<50.0	<50.0	9,410	<50.0	<50.0	97.3	<50.0
PTC6C-1	<1.0	<1.0	<1.0	443	1.0	3.1	68.1	<1.0
PTC6C-2	<10.0	<10.0	<10.0	358	<10.0	<10.0	66.4	<10.0
PTC6D-1	<0.5	<0.5	<0.5	8.2	<0.5	<0.5	26.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	8.3	<0.5	<0.5	26.8	<0.5
PTC6E-1	<10.0	<10.0	<10.0	112	<10.0	<10.0	127	<10.0
PTC7A-1	<10.0	<10.0	<10.0	10.9	<10.0	<10.0	161	<10.0
PTC7B-1	<10.0	<10.0	<10.0	596	<10.0	<10.0	216	<10.0
PTC7C-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	16.3	<0.5
PTC7D-1	<0.5	<0.5	<0.5	0.9	1.0	<0.5	27.0	<0.5
PTC8A-1	<2.5	<2.5	<2.5	289	<2.5	<2.5	25.2	<2.5
PTC8A-2	<2.5	<2.5	<2.5	289	<2.5	<2.5	23.7	<2.5
PTC8B-1	<10.0	<10.0	<10.0	110	<10.0	<10.0	107	<10.0
PTC8B-2	<2.5	<2.5	<2.5	127	2.9	<2.5	119	<2.5
PTC8C-1	<0.5	<0.5	<0.5	38.5	2.0	<0.5	13.8	<0.5
PTC8D-1	<2.5	<2.5	<2.5	173	<2.5	<2.5	32.0	<2.5
PTC8E-1	<10.0	<10.0	<10.0	810	<10.0	<10.0	40.0	<10.0
PTC9A-1	<25.0	<25.0	<25.0	1,610	<25.0	<25.0	88.9	<25.0
PTC9B-1	<25.0	<25.0	<25.0	1,300	<25.0	<25.0	83.9	<25.0
PTC9C-1	<25.0	<25.0	<25.0	1,180	<25.0	<25.0	89.4	<25.0
PTC9D-1	<10.0	<10.0	<10.0	674	10.9	<10.0	57.2	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	10.9	<10.0	53.9	<10.0
PTC9E-1	<50.0	<50.0	<50.0	4,160	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	84.9	<10.0	<10.0	152	<10.0
PTC10A-1	<10.0	<10.0	<10.0	70.0	<10.0	<10.0	93.6	<10.0
PTC10A-2	<10.0	<10.0	<10.0	75.3	<10.0	<10.0	97.6	<10.0
PTC10B-1	<10.0	<10.0	<10.0	4,970	<10.0	<10.0	113	<10.0
PTC10B-1	<10.0	<10.0	<10.0	4,580	<10.0	<10.0	105	<10.0
PTC10C-1	<1.7	<1.7	<1.7	301	<1.7	2.2	34.8	<1.7
PTC10C-1	<2.5	<2.5	<2.5	190	<2.5	<2.5	59.9	<2.5
PTC10D-1	<0.5	<0.5	<0.5	54.1	<0.5	0.7	17.6	<0.5
PTC10E-1	<10.0	<10.0	<10.0	2,900	<10.0	<10.0	92.4	<10.0
PTC11A-1	<25.0	<25.0	<25.0	7,950	<25.0	<25.0	75.6	<25.0
PTC11A-2	<25.0	<25.0	<25.0	7,590	<25.0	<25.0	65.2	<25.0
PTC11B-1	<25.0	<25.0	<25.0	9,170	<25.0	<25.0	81.5	<25.0
PTC11C-1	<50.0	<50.0	<50.0	8,230	<50.0	<50.0	78.8	<50.0
PTC11C-2	<25.0	<25.0	<25.0	8,780	<25.0	<25.0	78.3	<25.0
PTC11D-1	<25.0	<25.0	<25.0	6,230	<25.0	<25.0	65.1	<25.0
PTC11E-1	<10.0	<10.0	<10.0	4,360	<10.0	<10.0	36.9	<10.0
PTC11F-1	<50.0	<50.0	<50.0	9,210	<50.0	<50.0	65.7	<50.0
PTC12A-1	<10.0	<10.0	<10.0	431	<10.0	<10.0	409	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,210	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	1,160	<100
PTC5A-1	<10.0	<10.0	<10.0	10.9	<10.0	<10.0	1,850	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	855	<50.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	104	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,200	<50.0
PTC6A-2	<50.0	<50.0	<50.0	56.9	<50.0	<50.0	1,260	<50.0
PTC6B-1	<50.0	<50.0	<50.0	66.6	<50.0	<50.0	1,160	<50.0
PTC6C-1	3.1	<1.0	<1.0	1.7	<1.0	2.4	66.3	<1.0
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	65.9	<10.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.2	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	125	<10.0
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	842	<10.0
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	10.9	850	<10.0
PTC7C-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	6.7	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.0	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	111	<2.5
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	109	<2.5
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	150	<10.0
PTC8B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	168	<2.5
PTC8C-1	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	16.5	<0.5
PTC8D-1	<2.5	<2.5	<2.5	3.5	<2.5	<2.5	30.4	<2.5
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	88.3	<10.0
PTC9A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	837	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	570	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	575	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	205	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200	<10.0
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	213	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,480	<10.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	852	<10.0
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	845	<10.0
PTC10B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,570	<10.0
PTC10B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,360	<10.0
PTC10C-1	<1.7	<1.7	<1.7	<1.7	<1.7	2.1	94.5	<1.7
PTC10C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	103	<2.5
PTC10D-1	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	34.2	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	737	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	814	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	715	<25.0
PTC11B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	947	<25.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	944	<50.0
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	896	<25.0
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	588	<25.0
PTC11E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	318	<10.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	819	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,130	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC8B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<10.0	<10.0	<10.0	15.1	<10.0	<10.0	<10.0	<10.0
PTC10B-1	<10.0	<10.0	<10.0	15.8	<10.0	<10.0	<10.0	<10.0
PTC10C-1	<1.7	<1.7	<1.7	2.0	<1.7	<1.7	<1.7	<1.7
PTC10C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11E-1	<10.0	<10.0	<10.0	10.7	<10.0	<10.0	<10.0	<10.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC4B-1	<100	<50.0	<100	91.4 H	<100	102	<100	<100
PTC4C-1	<200	<100	<200	<200	<200	112	<200	<200
PTC5A-1	<20.0	<10.0	<20.0	72.1 H	<20.0	53.2	<20.0	<20.0
PTC5B-1	<100	<50.0	<100	78.4 H	<100	72.9	<100	<100
PTC5C-1	<2.0	<1.0	<2.0	14.8 H	<2.0	<2.0	<2.0	<2.0
PTC6A-1	<100	<50.0	<100	66.1	<100	82.6	<100	<100
PTC6A-2	<100	<50.0	<100	71.8	<100	76.7	<100	<100
PTC6B-1	<100	<50.0	<100	59.9	<100	78.1	<100	<100
PTC6C-1	<2.0	<1.0	<2.0	6.6	<2.0	3.5	<2.0	<2.0
PTC6C-2	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC6D-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7A-1	<20.0	<10.0	<20.0	14.0 H	<20.0	<20.0	<20.0	<20.0
PTC7B-1	<20.0	<10.0	<20.0	28.7 H	<20.0	<20.0	<20.0	<20.0
PTC7C-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC7D-1	<1.0	<0.5	<1.0	0.6 H	<1.0	<1.0	<1.0	<1.0
PTC8A-1	<5.0	<2.5	<5.0	8.7	<5.0	<5.0	<5.0	<5.0
PTC8A-2	<5.0	<2.5	<5.0	7.8	<5.0	3.8	<5.0	<5.0
PTC8B-1	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC8B-2	<5.0	<2.5	<5.0	10.1	<5.0	2.6	<5.0	<5.0
PTC8C-1	<1.0	<0.5	<1.0	1.6	<1.0	<1.0	<1.0	<1.0
PTC8D-1	<5.0	<2.5	<5.0	8.9	<5.0	<5.0	<5.0	<5.0
PTC8E-1	<20.0	<10.0	<20.0	21.3	<20.0	<20.0	<20.0	<20.0
PTC9A-1	<50.0	<25.0	<50.0	81.4	<50.0	30.0	<50.0	<50.0
PTC9B-1	<50.0	<25.0	<50.0	66.2	<50.0	<25.0	<50.0	<50.0
PTC9C-1	<50.0	<25.0	<50.0	59.6	<50.0	<25.0	<50.0	<50.0
PTC9D-1	<20.0	<10.0	<20.0	48.1	<20.0	<20.0	<20.0	<20.0
PTC9D-2	<20.0	<10.0	<20.0	45.1	<20.0	<20.0	<20.0	<20.0
PTC9E-1	<100	<50.0	<100	53.8	<100	<50.0	<100	<100
PTC10A-1	<20.0	<10.0	<20.0	40.8	<20.0	<20.0	<20.0	<20.0
PTC10A-1	<20.0	<10.0	<20.0	41.3	<20.0	<20.0	<20.0	<20.0
PTC10A-2	<20.0	<10.0	<20.0	41.5	<20.0	<20.0	<20.0	<20.0
PTC10B-1	<20.0	<10.0	<20.0	65.3	<20.0	69.7	<20.0	<20.0
PTC10B-1	<20.0	<10.0	<20.0	67.3	<20.0	60.8 L	<20.0	<20.0
PTC10C-1	<3.4	<1.7	<3.4	24.3	<3.4	5.6	<3.4	<3.4
PTC10C-1	<5.0	<2.5	<5.0	9.0	<5.0	<5.0	<5.0	<5.0
PTC10D-1	<1.0	<0.5	<1.0	2.8	<1.0	<1.0	<1.0	<1.0
PTC10E-1	<20.0	<10.0	<20.0	63.7	<20.0	46.7	<20.0	<20.0
PTC11A-1	<50.0	<25.0	<50.0	77.3	<50.0	95.4	<50.0	<50.0
PTC11A-2	<50.0	<25.0	<50.0	76.2	<50.0	79.0	<50.0	<50.0
PTC11B-1	<50.0	<25.0	<50.0	81.8	<50.0	88.9 L	<50.0	<50.0
PTC11C-1	<100	<50.0	<100	<100	<100	90.3 L	<100	<100
PTC11C-2	<50.0	<25.0	<50.0	89.8	<50.0	83.4	<50.0	<50.0
PTC11D-1	<50.0	<25.0	<50.0	75.8	<50.0	63.1 L	<50.0	<50.0
PTC11E-1	<20.0	<10.0	<20.0	65.8	<20.0	49.9 L	<20.0	<20.0
PTC11F-1	<100	<50.0	<100	88.3	<100	96.0 L	<100	<100
PTC12A-1	<20.0	<10.0	<20.0	76.1	<20.0	<20.0	<20.0	<20.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC4B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4C-1	<200	<200	<200	<200	<200	<200	<200	<200
PTC5A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC5B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC5C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC6A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC6A-2	<100	<100	<100	<100	<100	<100	<100	<100
PTC6B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC6C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC6C-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7B-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC7D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8A-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8A-2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8B-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC8B-2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9D-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9D-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9E-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC10A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10A-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10B-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10B-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10C-1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTC10C-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTC10D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC10E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC11A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC11C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC11F-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC12A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC4B-1	<100	<100	1,430	<100	<100	<100	<100	<100
PTC4C-1	<200	<200	1,990	<200	<200	<200	<200	<200
PTC5A-1	<20.0	<20.0	358	<20.0	<20.0	<20.0	<20.0	<20.0
PTC5B-1	<100	<100	1,160	<100	<100	<100	<100	<100
PTC5C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC6A-1	<100	<100	291	<100	<100	<100	<100	<100
PTC6A-2	<100	<100	313	<100	<100	<100	<100	<100
PTC6B-1	<100	<100	533	<100	<100	<100	<100	<100
PTC6C-1	<2.0	<2.0	1.9	<2.0	<2.0	<2.0	<2.0	<2.0
PTC6C-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7B-1	<20.0	<20.0	11.7	<20.0	<20.0	<20.0	<20.0	<20.0
PTC7C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC7D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8A-1	<5.0	<5.0	26.9	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8A-2	<5.0	<5.0	27.8	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8B-1	<20.0	<20.0	10.4	<20.0	<20.0	<20.0	<20.0	<20.0
PTC8B-2	<5.0	<5.0	11.8	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8D-1	<5.0	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<5.0
PTC8E-1	<20.0	<20.0	27.9	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9A-1	<50.0	<50.0	65.7	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<50.0	<50.0	67.5	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9C-1	<50.0	<50.0	76.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9D-1	<20.0	<20.0	20.8	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9D-2	<20.0	<20.0	21.9	<20.0	<20.0	<20.0	<20.0	<20.0
PTC9E-1	<100	<100	395	<100	<100	<100	<100	<100
PTC10A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10A-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10B-1	<20.0	<20.0	790	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10B-1	<20.0	<20.0	707	<20.0	<20.0	<20.0	<20.0	<20.0
PTC10C-1	<3.4	<3.4	5.7	<3.4	<3.4	<3.4	<3.4	<3.4
PTC10C-1	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	<5.0
PTC10D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC10E-1	<20.0	<20.0	692	<20.0	<20.0	<20.0	<20.0	<20.0
PTC11A-1	<50.0	<50.0	1,900	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11A-2	<50.0	<50.0	1,730	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	2,480	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<100	<100	1,850	<100	<100	<100	<100	<100
PTC11C-2	<50.0	<50.0	2,060	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<50.0	<50.0	1,100	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<20.0	<20.0	905	<20.0	<20.0	<20.0	<20.0	<20.0
PTC11F-1	<100	<100	2,150	<100	<100	<100	<100	<100
PTC12A-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC12B-1	1	6/21/2005	812	<1.0	<0.5	<0.5	<0.5	<0.5
PTC12C-1	1	6/21/2005	1035	<2.0	<1.0	3.1	<1.0	<1.0
PTC12C-2	2	6/21/2005	1035	<2.0	<1.0	3.3	<1.0	<1.0
PTC12D-1	1	6/21/2005	1110	<1.0	<0.5	3.3	<0.5	<0.5
PTC12E-1	1	6/21/2005	1140	<1.0	<0.5	2.0	<0.5	<0.5
PTC12F-1	1	6/21/2005	1223	<1.0	<0.5	1.3	<0.5	<0.5
PTC13A-1	1	6/21/2005	1516	<100	<50.0	<50.0	<50.0	<50.0
PTC13B-1	1	6/21/2005	1500	<20.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	1	6/21/2005	1426	<20.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	1	6/21/2005	1403	<5.0	<2.5	<2.5	<2.5	<2.5
PTZ1A-1	1	6/20/2005	1125	<5.0	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	1	6/20/2005	1500	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	2	6/20/2005	1500	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	1	6/20/2005	1230	<20.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	1	6/20/2005	1406	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ1D-2	2	6/20/2005	1406	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	1	6/21/2005	1330	<20.0	<10.0	<10.0	<10.0	<10.0
PTZ1E-2	2	6/21/2005	1330	<20.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	1	6/20/2005	1120	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	1	6/21/2005	1130	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	1	6/20/2005	1135	<3.4	<1.7	<1.7	<1.7	<1.7
PTZ2D-1	1	6/20/2005	1150	<200	<100	<100	<100	<100
PTZ2D-2	2	6/20/2005	1150	<200	<100	<100	<100	<100
PTZ2E-1	1	6/20/2005	1200	<50.0	<25.0	<25.0	<25.0	<25.0
PTZ4A-1	1	6/22/2005	945	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	1	6/22/2005	1044	<1.0	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	1	6/22/2005	1142	<5.0	<2.5	<2.5	<2.5	<2.5

SURFACE-WATER SAMPLES

PTV02	NR	2/8/2005	1115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	NR	2/8/2005	1315	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	NR	2/8/2005	1515	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	NR	2/8/2005	1715	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	NR	2/8/2005	1915	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	NR	2/8/2005	2115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	NR	2/8/2005	2315	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	NR	2/9/2005	115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	NR	2/9/2005	315	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	NR	2/9/2005	515	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	NR	2/9/2005	715	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	NR	2/9/2005	915	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	NR	2/9/2005	1115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	NR	2/9/2005	1315	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	NR	2/9/2005	1515	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	NR	2/9/2005	1715	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	NR	2/9/2005	1915	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	NR	2/9/2005	2115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	NR	2/9/2005	2315	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC12B-1	<0.5	0.8	0.8	2.5	<0.5	<0.5	34.6	189
PTC12C-1	<1.0	2.0	3.5	5.6	<1.0	<1.0	154	240
PTC12C-2	<1.0	1.9	3.4	5.4	<1.0	<1.0	147	233
PTC12D-1	<0.5	1.6	1.2	4.5	<0.5	<0.5	102	181
PTC12E-1	<0.5	1.4	1.1	4.7	<0.5	<0.5	95.3	221
PTC12F-1	<0.5	0.8	<0.5	3.6	1.0	<0.5	26.3	35.0
PTC13A-1	<50.0	<50.0	90.4	<50.0	<50.0	<50.0	<50.0	5,290
PTC13B-1	<10.0	<10.0	20.7	<10.0	<10.0	<10.0	<10.0	1,920
PTC13C-1	<10.0	<10.0	21.8	<10.0	<10.0	<10.0	<10.0	1,410
PTC13D-1	<2.5	4.6	19.8	6.2	<2.5	<2.5	9.8	>1,250
PTZ1A-1	<2.5	6.2	<2.5	21.5	3.1	<2.5	11.3	1,150
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	15.2	<10.0	<10.0	<10.0	<10.0	4,670
PTZ1D-1	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
PTZ1D-2	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
PTZ1E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,490
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,560
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<1.7	<1.7	<1.7	6.7	<1.7	<1.7	207	<1.7
PTZ2D-1	<100	<100	114	<100	<100	<100	<100	5,410
PTZ2D-2	<100	<100	103	<100	<100	<100	<100	5,870
PTZ2E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	783
PTZ4A-1	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	37.2	2.7
PTZ4B-1	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	0.6	9.6
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1,010
PTV02	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8
PTV04	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.4
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	12.3
PTV08	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6
PTV10	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8
PTV12	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
PTV14	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.4
PTV16	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
PTV18	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.0
PTV20	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	6.7
PTV22	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	6.6
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	10.6
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13.2
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	28.7
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20.2
PTV32	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	8.2
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.3
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8
PTV38	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC12B-1	<0.5	<0.5	<0.5	89.1	<0.5	0.6	101	<0.5
PTC12C-1	<1.0	<1.0	<1.0	9.0	<1.0	<1.0	443	<1.0
PTC12C-2	<1.0	<1.0	<1.0	8.2	<1.0	<1.0	413	<1.0
PTC12D-1	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	188	<0.5
PTC12E-1	<0.5	<0.5	<0.5	5.8	<0.5	0.7	135	<0.5
PTC12F-1	<0.5	<0.5	<0.5	1.2	0.5	0.5	39.6	<0.5
PTC13A-1	<50.0	<50.0	<50.0	6,850	<50.0	<50.0	74.9	<50.0
PTC13B-1	<10.0	<10.0	<10.0	2,100	<10.0	<10.0	124	<10.0
PTC13C-1	<10.0	<10.0	<10.0	461	<10.0	<10.0	27.9	<10.0
PTC13D-1	<2.5	<2.5	<2.5	633	<2.5	3.7	152	<2.5
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	7.4	2.5	233	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	3,900	<10.0	<10.0	62.8	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<10.0	<10.0	<10.0	310	<10.0	<10.0	<10.0	<10.0
PTZ1E-2	<10.0	<10.0	<10.0	336	<10.0	<10.0	10.6	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	52.3	<1.7
PTZ2D-1	<100	<100	<100	7,440	<100	<100	<100	<100
PTZ2D-2	<100	<100	<100	7,480	<100	<100	<100	<100
PTZ2E-1	<25.0	<25.0	<25.0	960	<25.0	<25.0	<25.0	<25.0
PTZ4A-1	<0.5	<0.5	<0.5	8.7	0.5	<0.5	43.6	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	9.5	<0.5	<0.5	3.6	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	664	<2.5	<2.5	6.6	<2.5
PTV02	<0.5	<0.5	<0.5	8.3	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	15.0	<0.5	<0.5	1.3 V	<0.5
PTV06	<0.5	<0.5	<0.5	10.1	<0.5	<0.5	1.3	<0.5
PTV08	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	0.6 V	<0.5
PTV10	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	0.6 V	<0.5
PTV16	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	0.6 V	<0.5
PTV18	<0.5	<0.5	<0.5	8.3	<0.5	<0.5	1.2 V	<0.5
PTV20	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	1.1 V	<0.5
PTV22	<0.5	<0.5	<0.5	6.6	<0.5	<0.5	2.3 H	<0.5
PTV24	<0.5	<0.5	<0.5	10.9	<0.5	<0.5	1.0	<0.5
PTV26	<0.5	<0.5	<0.5	10.7	<0.5	<0.5	1.2	<0.5
PTV28	<0.5	<0.5	<0.5	25.1	<0.5	<0.5	1.7	<0.5
PTV30	<0.5	<0.5	<0.5	19.2	<0.5	<0.5	1.6	<0.5
PTV32	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	2.8 H	<0.5
PTV34	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	0.8	<0.5
PTV36	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	0.6	<0.5
PTV38	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	0.7 V	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC12B-1	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	201	<0.5
PTC12C-1	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	19.9	<1.0
PTC12C-2	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	17.6	<1.0
PTC12D-1	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	38.6	<0.5
PTC12E-1	<0.5	<0.5	<0.5	0.9	<0.5	0.5	37.3	<0.5
PTC12F-1	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	17.6	<0.5
PTC13A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	894	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,080	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	294	<10.0
PTC13D-1	<2.5	<2.5	<2.5	4.4	<2.5	3.7	>1,250	<2.5
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	782	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	354	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	0.6	<0.5
PTZ1D-2	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	0.6	<0.5
PTZ1E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	31.5	<10.0
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	35.1	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	0.8	<0.5
PTZ2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	206	<1.7
PTZ2D-1	<100	<100	<100	<100	<100	<100	420	<100
PTZ2D-2	<100	<100	<100	<100	<100	<100	383	<100
PTZ2E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	82.8	<25.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.9	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16.0	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	38.0	<2.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6 H	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1 H	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7 V	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6 V	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6 V	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6 V	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9 V	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3 H	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3 V	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6 H	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.2	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7 H	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8 V	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC12B-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13D-1	<2.5	<2.5	<2.5	5.4	<2.5	<2.5	<2.5	<2.5
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1E-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTZ2D-1	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2D-2	<100	<100	<100	<100	<100	<100	<100	<100
PTZ2E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC12B-1	<1.0	<0.5	<1.0	7.3	<1.0	3.2 L	<1.0	<1.0
PTC12C-1	<2.0	<1.0	<2.0	3.8	<2.0	<4.0	<2.0	<2.0
PTC12C-2	<2.0	<1.0	<2.0	3.7	<2.0	<2.0	<2.0	<2.0
PTC12D-1	<1.0	<0.5	<1.0	1.3	<1.0	<2.0	<1.0	<1.0
PTC12E-1	<1.0	<0.5	<1.0	1.9	<1.0	<2.0	<1.0	<1.0
PTC12F-1	<1.0	<0.5	<1.0	1.2	<1.0	<2.0	<1.0	<1.0
PTC13A-1	<100	<50.0	<100	65.6	<100	<200	<100	<100
PTC13B-1	<20.0	<10.0	<20.0	66.2	<20.0	42.1 L	<20.0	<20.0
PTC13C-1	<20.0	<10.0	<20.0	36.6	<20.0	<40.0	<20.0	<20.0
PTC13D-1	<5.0	<2.5	<5.0	56.0	<5.0	23.9 L	<5.0	<5.0
PTZ1A-1	<5.0	<2.5	<5.0	21.2	<5.0	<5.0	<5.0	<5.0
PTZ1B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1B-2	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1C-1	<20.0	<10.0	<20.0	58.1	<20.0	28.1	<20.0	<20.0
PTZ1D-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1D-2	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1E-1	<20.0	<10.0	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0
PTZ1E-2	<20.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ2A-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-1	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<3.4	<1.7	<3.4	5.8	<3.4	<3.4	<3.4	<3.4
PTZ2D-1	<200	<100	<200	<200	<200	<200	<200	<200
PTZ2D-2	<200	<100	<200	<200	<200	<200	<200	<200
PTZ2E-1	<50.0	<25.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<1.0	<0.5	<1.0	1.0	<1.0	<1.0	<1.0	<1.0
PTZ4B-1	<1.0	<0.5	<1.0	0.5	<1.0	<1.0	<1.0	<1.0
PTZ4C-1	<5.0	<2.5	<5.0	8.8	<5.0	3.7	<5.0	<5.0
PTV02	<0.5	<0.5	<0.5	2.7 H	<0.5	<1.0	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	2.8 H	<0.5	<1.0	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	3.4	<0.5	<1.0	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	2.0 H	<0.5	<1.0	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	1.2 H	<0.5	<1.0	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	1.1 H	<0.5	<1.0	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	1.8 H	<0.5	<1.0	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	2.3 H	<0.5	<1.0	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	2.7 H	<0.5	<1.0	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	3.2 H	<0.5	<1.0	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	3.4 H	<0.5	<1.0	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	3.0	<0.5	<1.0	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	3.4	<0.5	<1.0	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	3.9	<0.5	<1.0	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	4.0	<0.5	<1.0	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	5.9 H	<0.5	<1.0	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	2.4	<0.5	<1.0	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	1.2	<0.5	<1.0	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	2.4 H	<0.5	<1.0	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC12B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC12C-2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC12D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12E-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12F-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC13A-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC13B-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC13C-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTC13D-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTZ1A-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTZ1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1C-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ1D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ1E-2	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ2A-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTZ2D-1	<200	<200	<200	<200	<200	<200	<200	<200
PTZ2D-2	<200	<200	<200	<200	<200	<200	<200	<200
PTZ2E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ4B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ4C-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butylbenzene (µg/L)	1,2-Dichlorobenzene (µg/L)	Hexachloroethane (µg/L)	1,2-Dibromo-3-chloropropane (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachlorobutadiene (µg/L)	Naphthalene (µg/L)	1,2,3-Trichlorobenzene (µg/L)
PTC12B-1	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC12C-2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PTC12D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12E-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12F-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC13A-1	<100	<100	1,140	<100	<100	<100	<100	<100
PTC13B-1	<20.0	<20.0	754	<20.0	<20.0	<20.0	<20.0	<20.0
PTC13C-1	<20.0	<20.0	34.4	<20.0	<20.0	<20.0	<20.0	<20.0
PTC13D-1	<5.0	<5.0	150	<5.0	<5.0	<5.0	<5.0	<5.0
PTZ1A-1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PTZ1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1C-1	<20.0	<20.0	238	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ1D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ1E-1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ1E-2	<20.0	<20.0	10.9	<20.0	<20.0	<20.0	<20.0	<20.0
PTZ2A-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ2C-1	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
PTZ2D-1	<200	<200	817	<200	<200	<200	<200	<200
PTZ2D-2	<200	<200	813	<200	<200	<200	<200	<200
PTZ2E-1	<50.0	<50.0	87.8	<50.0	<50.0	<50.0	<50.0	<50.0
PTZ4A-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ4B-1	<1.0	<1.0	0.8	<1.0	<1.0	<1.0	<1.0	<1.0
PTZ4C-1	<5.0	<5.0	34.8	<5.0	<5.0	<5.0	<5.0	<5.0
PTV02	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTV40	NR	2/10/2005	115	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	NR	2/10/2005	815	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	NR	2/10/2005	1015	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	NR	3/30/2005	800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV04	NR	3/30/2005	1000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV06	NR	3/30/2005	1200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV08	NR	3/30/2005	1400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV10	NR	3/30/2005	1600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV12	NR	3/30/2005	1800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV14	NR	3/30/2005	2000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV16	NR	3/30/2005	2200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV18	NR	3/31/2005	0	<1.0	<0.5	<0.5	<0.5	<0.5
PTV20	NR	3/31/2005	200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV22	NR	3/31/2005	400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV24	NR	3/31/2005	600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV26	NR	3/31/2005	800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV28	NR	3/31/2005	1000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV30	NR	3/31/2005	1200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV32	NR	3/31/2005	1400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV34	NR	3/31/2005	1600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV36	NR	3/31/2005	1800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV38	NR	3/31/2005	2000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV40	NR	3/31/2005	2200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV42	NR	4/1/2005	2400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV44	NR	4/1/2005	200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV46	NR	4/1/2005	400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV48	NR	4/1/2005	600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV02	NR	6/14/2005	800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV04	NR	6/14/2005	1000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV06	NR	6/14/2005	1200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV08	NR	6/14/2005	1400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV10	NR	6/14/2005	1600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV12	NR	6/14/2005	1800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV14	NR	6/14/2005	2000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV16	NR	6/14/2005	2200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV18	NR	6/14/2005	2400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV20	NR	6/15/2005	200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV22	NR	6/15/2005	400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV24	NR	6/15/2005	600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV26	NR	6/15/2005	800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV28	NR	6/15/2005	1000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV30	NR	6/15/2005	1200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV32	NR	6/15/2005	1400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV34	NR	6/15/2005	1600	<1.0	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTV40	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.6
PTV42	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.3
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.1
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	37.3
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.8
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.0
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.4
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.2
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.9
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.8
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.9
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26.7
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	5.8
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	9.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.6
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.3
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	11.7
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.6
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.3
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTV40	<0.5	<0.5	<0.5	5.3	<0.5	<0.5	1.0 V	<0.5
PTV42	<0.5	<0.5	<0.5	8.1	<0.5	<0.5	0.9 V	<0.5
PTV44	<0.5	<0.5	<0.5	7.2	<0.5	<0.5	0.7	<0.5
PTV02	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	42.3	<0.5	<0.5	2.0	<0.5
PTV14	<0.5	<0.5	<0.5	13.9	<0.5	<0.5	1.2	<0.5
PTV16	<0.5	<0.5	<0.5	3.7	<0.5	<0.5	0.9	<0.5
PTV18	<0.5	<0.5	<0.5	4.8	<0.5	<0.5	0.9	<0.5
PTV20	<0.5	<0.5	<0.5	8.2	<0.5	<0.5	1.0	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV24	<0.5	<0.5	<0.5	11.8	<0.5	<0.5	1.0	<0.5
PTV26	<0.5	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	3.1	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	5.8	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	6.3	<0.5	<0.5	0.8	<0.5
PTV40	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	0.8	<0.5
PTV42	<0.5	<0.5	<0.5	5.4	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	5.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	6.7	<0.5	<0.5	0.6	<0.5
PTV48	<0.5	<0.5	<0.5	29.1	<0.5	<0.5	1.5	<0.5
PTV02	<0.5	<0.5	<0.5	5.3	<0.5	<0.5	0.8	<0.5
PTV04	<0.5	<0.5	<0.5	4.8	<0.5	<0.5	0.9	<0.5
PTV06	<0.5	<0.5	<0.5	3.8	<0.5	<0.5	0.7	<0.5
PTV08	<0.5	<0.5	<0.5	8.4	<0.5	<0.5	0.9	<0.5
PTV10	<0.5	<0.5	<0.5	11.2	<0.5	<0.5	0.9	<0.5
PTV12	<0.5	<0.5	<0.5	11.5	<0.5	<0.5	0.9	<0.5
PTV14	<0.5	<0.5	<0.5	13.1	<0.5	<0.5	1.3	<0.5
PTV16	<0.5	<0.5	<0.5	7.3	<0.5	<0.5	1.1	<0.5
PTV18	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	0.7	<0.5
PTV20	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	4.9	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	4.7	<0.5	<0.5	0.5	<0.5
PTV28	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1 V	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0 H	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.1	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropylbenzene (µg/L)	Bromobenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	n-Propylbenzene (µg/L)	Pentachloroethane (µg/L)	2-Chlorotoluene (µg/L)	1,2,3-Trichloropropane (µg/L)
PTV40	<0.5	<0.5	<0.5	2.9 H	<0.5	<1.0	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	1.9 H	<0.5	<1.0	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	1.3	<0.5	<1.0	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5
PTV02	<1.0	<0.5	<0.5	3.8	<0.5	<0.5	<0.5	<0.5
PTV04	<1.0	<0.5	<0.5	3.0	<0.5	<0.5	<0.5	<0.5
PTV06	<1.0	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5
PTV08	<1.0	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5
PTV10	<1.0	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5
PTV12	<1.0	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	<0.5
PTV14	<1.0	<0.5	<0.5	3.6	<0.5	<0.5	<0.5	<0.5
PTV16	<1.0	<0.5	<0.5	3.1	<0.5	<0.5	<0.5	<0.5
PTV18	<1.0	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTV20	<1.0	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PTV22	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<1.0	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<1.0	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PTV28	<1.0	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTV30	<1.0	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTV40	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	4.4	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTV36	NR	6/15/2005	1800	<1.0	<0.5	<0.5	<0.5	<0.5
PTV38	NR	6/15/2005	2000	<1.0	<0.5	<0.5	<0.5	<0.5
PTV40	NR	6/15/2005	2200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV42	NR	6/15/2005	2400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV44	MA	6/16/2005	200	<1.0	<0.5	<0.5	<0.5	<0.5
PTV46	NR	6/16/2005	400	<1.0	<0.5	<0.5	<0.5	<0.5
PTV48	NR	6/16/2005	600	<1.0	<0.5	<0.5	<0.5	<0.5
PTV02	NR	8/2/2005	845	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV04	NR	8/2/2005	1045	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV06	NR	8/2/2005	1245	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV08	NR	8/2/2005	1445	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV10	NR	8/2/2005	1645	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV12	NR	8/2/2005	1845	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV14	NR	8/2/2005	2045	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV16	NR	8/2/2005	2245	<0.5	<0.5 L	<0.5 L	<0.5	<0.5
PTV18	NR	8/3/2005	45	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	NR	8/3/2005	245	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	NR	8/3/2005	445	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	NR	8/3/2005	645	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	NR	8/3/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	NR	8/3/2005	1045	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	NR	8/3/2005	1245	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	NR	8/3/2005	1445	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	NR	8/3/2005	1645	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	NR	8/3/2005	1845	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	NR	8/3/2005	2045	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	NR	8/3/2005	2245	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV42	NR	8/4/2005	45	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV44	NR	8/4/2005	245	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV46	NR	8/4/2005	445	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV48	NR	8/4/2005	645	<0.5 L	<0.5	<0.5	<0.5	<0.5
<u>GROUNDWATER SAMPLES</u>								
PTB1-B	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB1-C	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB2-C	NR	8/4/2005	--	<50.0 L	<50.0	<50.0	<50.0	<50.0
PTB3-C	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB4-B	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB4-C	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB4-C	MA	8/4/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	NR	8/4/2005	--	<3.6 L	<3.6	<3.6	<3.6	<3.6
PTB5-C	NR	8/4/2005	--	<3.6 L	<3.6	<3.6	<3.6	<3.6
PTB5-C	MA	8/4/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB6-C	NR	8/4/2005	--	<25.0 L	<25.0	<25.0	<25.0	<25.0
PTB7-B	NR	8/4/2005	--	<0.5 L	4.3 H	<0.5	<0.5	<0.5
PTB7-C	NR	8/4/2005	--	<0.5 L	7.7	137	<0.5	<0.5
PTB8-B	NR	8/4/2005	--	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB8-C	NR	8/4/2005	--	<10.0	<10.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro-fluoro-methane (µg/L)	1,1-Dichloro-ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,1-Dichloro-ethane (µg/L)	2,2-Dichloro-propane (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	Chloroform (µg/L)
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	23.3
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28.7
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.8
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.9
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.2
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.4
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.0
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.3
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	36.0
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.1
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	15.9
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	30.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	44.4
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	33.4
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	28.6
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	29.8
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	15.8
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8
PTB1-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0 L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0 L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0 L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0 L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6 L	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6 L	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0 L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	3.4
PTB6-C	<25.0 L	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5 L	3.4 H	>250 H	19.5 H	4.7 H	<0.5	63.6 H	>250 H
PTB7-C	<0.5 L	8.2	>250	11.6	3.8	<0.5	153	>250
PTB8-B	<10.0 L	<10.0	10.2 H	<10.0	<10.0	<10.0	<10.0	14.6 H
PTB8-C	<50.0 L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTV36	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	0.5	<0.5
PTV40	<0.5	<0.5	<0.5	4.2	<0.5	<0.5	0.6	<0.5
PTV42	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	37.4	<0.5	<0.5	1.0	<0.5
PTV06	<0.5	<0.5	<0.5	32.7	<0.5	<0.5	1.1	<0.5
PTV08	<0.5	<0.5	<0.5	10.3	<0.5	<0.5	0.5	<0.5
PTV10	<0.5	<0.5	<0.5	4.8	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	9.9	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	15.9	<0.5	<0.5	0.6	<0.5
PTV16	<0.5	<0.5	<0.5	11.6	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	6.9	<0.5	<0.5	0.6	<0.5
PTV20	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	0.7	<0.5
PTV22	<0.5	<0.5	<0.5	10.2	<0.5	<0.5	0.9	<0.5
PTV24	<0.5	<0.5	<0.5	6.3	<0.5	<0.5	0.8	<0.5
PTV26	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	27.8	<0.5	<0.5	1.4	<0.5
PTV30	<0.5	<0.5	<0.5	11.2	<0.5	<0.5	0.9	<0.5
PTV32	<0.5	<0.5	<0.5	11.1	<0.5	<0.5	1.1	<0.5
PTV34	<0.5	<0.5	<0.5	20.5	<0.5	<0.5	1.4	<0.5
PTV36	<0.5	<0.5	<0.5	36.7	<0.5	<0.5	1.8	<0.5
PTV38	<0.5	<0.5	<0.5	50.4	<0.5	<0.5	2.0	<0.5
PTV40	<0.5	<0.5	<0.5	46.1	<0.5	<0.5	2.1	<0.5
PTV42	<0.5	<0.5	<0.5	37.0	<0.5	<0.5	1.9	<0.5
PTV44	<0.5	<0.5	<0.5	38.4	<0.5	<0.5	1.8	<0.5
PTV46	<0.5	<0.5	<0.5	15.5	<0.5	<0.5	1.4	<0.5
PTV48	<0.5	<0.5	<0.5	7.8	<0.5	<0.5	1.1	<0.5
PTB1-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	<0.5	<0.5	10.3 H	25.7 H	<0.5
PTB7-C	<0.5	<0.5	<0.5	<0.5	2.8	12.5	83.5	<0.5
PTB8-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4 H	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2 H	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2 H	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4 H	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.5 H	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8 H	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1 H	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3 H	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.3 H	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6 H	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.8 H	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5
PTB1-B	<10.0	<10.0	<10.0	72.5	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	3,330	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	4,330	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	9,810	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	>1,790	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	6,700	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	25.9	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	6,770	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	>250 H	<0.5	3.2 H	13.1 H	<0.5
PTB7-C	<0.5	<0.5	<0.5	>250	<0.5	6.3	38.5 H	<0.5
PTB8-B	<10.0	<10.0	<10.0	103 H	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	4,000	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB7-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTV36	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<1.0	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
PTV40	<1.0	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5
PTV42	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	1.1	<0.5	<0.5 L	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	1.7	<0.5	<0.5 L	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	2.1	<0.5	<0.5 L	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	1.2	<0.5	<0.5 L	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	0.8	<0.5	<0.5 L	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	1.3	<0.5	<0.5 L	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	1.5	<0.5	<0.5 L	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	2.0	<0.5	<0.5 L	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	2.7	<0.5	<0.5 L	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	3.1	<0.5	<0.5 L	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	3.6	<0.5	<0.5 L	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	3.9	<0.5	0.6 H	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	4.4	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	4.6	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	4.3	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
PTB1-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	6.0 H	<0.5	<0.5	<0.5	<0.5
PTB7-C	<0.5	<0.5	<0.5	17.7	<0.5	<0.5	<0.5	<0.5
PTB8-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5 L	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5 L	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5 L	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5 L	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5 L	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTB1-B	<10.0	<10.0 L	<10.0	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0 L	<10.0	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB7-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTV36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV04	<0.5	<0.5	4.4	<0.5	<0.5	<0.5	<0.5	<0.5
PTV06	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV08	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
PTV10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV12	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
PTV14	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV16	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
PTV18	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV22	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
PTV24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV26	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTV28	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV30	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
PTV32	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5
PTV34	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5
PTV36	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	<0.5	<0.5
PTV38	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<0.5	<0.5
PTV40	<0.5	<0.5	6.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV42	<0.5	<0.5	4.8	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV44	<0.5	<0.5	4.0	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV46	<0.5	<0.5	1.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTV48	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5	<0.5	<0.5
PTB1-B	<10.0	<10.0	<10.0	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB1-C	<10.0	<10.0	<10.0	<10.0 L	<10.0	<10.0	<10.0	<10.0
PTB2-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB3-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB7-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB8-B	<10.0	<10.0	<10.0	<10.0	10.8 H	<10.0	<10.0	<10.0 H
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTB9-B	MA	8/4/2005	--	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	NR	8/4/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	NR	8/8/2005	1435	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	NR	8/8/2005	1055	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	1	8/8/2005	1205	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-2	2	8/8/2005	1205	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	1	8/8/2005	1340	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	2	8/8/2005	1340	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	1	8/9/2005	825	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	2	8/9/2005	825	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	1	8/9/2005	913	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-2	2	8/9/2005	913	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	NR	8/12/2005	1040	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	NR	8/8/2005	1350	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	1	8/9/2005	1025	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-2	2	8/9/2005	1025	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1A-1	NR	8/10/2005	1420	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	NR	8/15/2005	1000	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	NR	8/10/2005	1250	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	1	8/15/2005	1055	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1C-2	2	8/15/2005	1055	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	NR	8/9/2005	1135	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	1	8/10/2005	1000	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	2	8/10/2005	1000	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2C-1	NR	8/12/2005	830	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	NR	8/9/2005	1335	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	1	8/10/2005	945	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3B-2	2	8/10/2005	945	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	NR	8/10/2005	1425	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	1	8/11/2005	1420	<1,000	<1,000	<1,000	<1,000	<1,000
PTC4A-2	2	8/11/2005	1420	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	1	8/12/2005	855	<100	<100	<100	<100	<100
PTC4B-2	2	8/12/2005	855	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	1	8/12/2005	1005	<100	<100	<100	<100	<100
PTC4C-2	2	8/12/2005	1005	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	NR	8/11/2005	1155	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	NR	8/11/2005	1045	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	1	8/11/2005	1130	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-2	2	8/11/2005	1130	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	NR	8/10/2005	1545	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-1	NR	8/10/2005	1430	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	1	8/10/2005	1240	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6C-2	2	8/10/2005	1240	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-1	NR	8/10/2005	1100	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	1	8/10/2005	930	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-2	2	8/10/2005	930	<1.0	<1.0	<3.6	<3.6	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.5
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	136	<50.0	<50.0	<50.0	<50.0	7,030
PTN2-2	<25.0	<25.0	196	<25.0	<25.0	<25.0	43.3	6,750
PTN3-1	<25.0	<25.0	126	<25.0	<25.0	<25.0	<25.0	4,610
PTN3-2	<10.0	<10.0	125	<10.0	<10.0	<10.0	22.1	4,700
PTN4-1	<50.0	<50.0	755	<50.0	<50.0	<50.0	<50.0	8,270
PTN4-2	<50.0	<50.0	662	<50.0	<50.0	<50.0	<50.0	8,930
PTN5-1	<25.0	<25.0	134	<25.0	<25.0	<25.0	45.2	3,130
PTN5-2	<10.0	<10.0	126	<10.0	<10.0	<10.0	42.6	3,110
PTN6-1	<25.0	<25.0	147	<25.0	<25.0	<25.0	<25.0	2,220
PTN6-2	<10.0	<10.0	142	<10.0	<10.0	<10.0	<10.0	2,300
PTN7-1	<25.0	<25.0	306	<25.0	<25.0	<25.0	<25.0	9,300
PTN8-1	<25.0	<25.0	1,560	<25.0	<25.0	<25.0	103	5,530
PTN9-1	<25.0	<25.0	141	<25.0	<25.0	<25.0	<25.0	3,900
PTN9-2	<10.0	<10.0	137	<10.0	<10.0	<10.0	<10.0	4,010
PTC1A-1	<50.0	<50.0	104	<50.0	<50.0	<50.0	<50.0	8,120
PTC1A-1	<50.0	<50.0	115	<50.0	<50.0	<50.0	<50.0	9,480
PTC1B-1	<2.5	<2.5	4.4	<2.5	<2.5	<2.5	4.0	268
PTC1C-1	<50.0	<50.0	69.6	<50.0	<50.0	<50.0	<50.0	9,300
PTC1C-2	<50.0 L	<50.0	62.3	<50.0	<50.0	<50.0	<50.0	9,090
PTC2A-1	<50.0	<50.0	82.5	<50.0	<50.0	<50.0	<50.0	4,960
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	208
PTC2B-2	<0.5	<0.5	7.4	<0.5	<0.5	<0.5	2.8	201
PTC2C-1	<0.5	<0.5	3.0	0.6	<0.5	<0.5	23.0	18.7
PTC3A-1	<25.0	<25.0	116	<25.0	<25.0	<25.0	<25.0	8,050
PTC3B-1	<2.5	2.7	4.9	8.1	2.7	<2.5	10.1	283
PTC3B-2	<1.0	2.4	4.9	7.2	2.1	<1.0	9.4	269
PTC3C-1	<50.0	<50.0	106	<50.0	<50.0	<50.0	<50.0	7,870
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	10,100
PTC4A-2	<50.0	<50.0	166	<50.0	<50.0	<50.0	<50.0	11,100
PTC4B-1	<100	<100	168	<100	<100	<100	<100	10,900
PTC4B-2	<50.0	<50.0	160	<50.0	<50.0	<50.0	<50.0	10,600
PTC4C-1	<100	<100	178	<100	<100	<100	<100	11,200
PTC4C-2	<50.0 L	<50.0	169	<50.0	<50.0	<50.0	<50.0	11,100
PTC5A-1	<10.0	<10.0	59.9	<10.0	<10.0	<10.0	<10.0	3,890
PTC5B-1	<25.0	<25.0	76.3	<25.0	<25.0	<25.0	<25.0	3,960
PTC5C-1	<1.0	2.0	3.7	5.9	2.0	<1.0	7.5	138
PTC5C-2	<1.0	1.9	3.8	5.5	2.0	<1.0	7.0	133
PTC6A-1	<50.0	<50.0	111	<50.0	<50.0	<50.0	<50.0	8,780
PTC6B-1	<50.0 L	<50.0	130	<50.0	<50.0	<50.0	<50.0	9,230
PTC6C-1	<10.0 L	<10.0	13.7	<10.0	<10.0	<10.0	13.9	923
PTC6C-2	<1.0	<1.0	12.7	2.0	<1.0	<1.0	12.2	>500
PTC6D-1	<0.5 L	0.7	3.9	1.6	<0.5	<0.5	10.5	248
PTC6E-1	<1.0	2.4	19.1	3.1	1.7	<1.0	14.0	>500
PTC6E-2	<3.6	<3.6	21.4	4.1	<3.6	<3.6	15.4	1,610

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-chloro-methane (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1-Dichloro-propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro-ethane (µg/L)	Trichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	674	<50.0	<50.0	183	<50.0
PTN2-2	<25.0	<25.0	<25.0	193	<25.0	<25.0	132	<25.0
PTN3-1	<25.0	<25.0	<25.0	197	<25.0	<25.0	152	<25.0
PTN3-2	<10.0	<10.0	<10.0	188	<10.0	<10.0	140	<10.0
PTN4-1	<50.0	<50.0	<50.0	3,520	<50.0	<50.0	64.2	<50.0
PTN4-2	<50.0	<50.0	<50.0	3,720	<50.0	<50.0	72.1	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	228	<25.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	215	<10.0
PTN6-1	<25.0	<25.0	<25.0	2,030	<25.0	<25.0	55.9	<25.0
PTN6-2	<10.0	<10.0	<10.0	2,170	<10.0	<10.0	51.3	<10.0
PTN7-1	<25.0	<25.0	<25.0	4,370	<25.0	<25.0	66.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	854	<25.0	<25.0	105	<25.0
PTN9-1	<25.0	<25.0	<25.0	3,700	<25.0	<25.0	80.9	<25.0
PTN9-2	<10.0	<10.0	<10.0	3,920	<10.0	<10.0	77.0	<10.0
PTC1A-1	<50.0	<50.0	<50.0	9,700	<50.0	<50.0	52.3	<50.0
PTC1A-1	<50.0	<50.0	<50.0	2,680	<50.0	<50.0	139	<50.0
PTC1B-1	<2.5	<2.5	<2.5	94.8	<2.5	<2.5	47.4	<2.5
PTC1C-1	<50.0	<50.0	<50.0	7,130	<50.0	<50.0	68.5	<50.0
PTC1C-2	<50.0	<50.0	<50.0	7,110	<50.0	<50.0	72.4	<50.0
PTC2A-1	<50.0	<50.0	<50.0	6,480	<50.0	<50.0	78.4	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	8.2	<0.5	<0.5	17.0	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17.9	<0.5
PTC3A-1	<25.0	<25.0	<25.0	5,710	<25.0	<25.0	122	<25.0
PTC3B-1	<2.5	<2.5	<2.5	114	<2.5	<2.5	201	<2.5
PTC3B-2	<1.0	<1.0	<1.0	110	<1.0	<1.0	188	<1.0
PTC3C-1	<50.0	<50.0	<50.0	9,230	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<1,000	<1,000	<1,000	8,560	<1,000	<1,000	<1,000	<1,000
PTC4A-2	<50.0	<50.0	<50.0	10,200	<50.0	<50.0	95.0	<50.0
PTC4B-1	<100	<100	<100	13,200	<100	<100	<100	<100
PTC4B-2	<50.0	<50.0	<50.0	13,300	<50.0	<50.0	90.9	<50.0
PTC4C-1	<100	<100	<100	17,600	<100	<100	<100	<100
PTC4C-2	<50.0	<50.0	<50.0	17,700	<50.0	<50.0	63.4	<50.0
PTC5A-1	<10.0	<10.0	<10.0	3,980	<10.0	<10.0	110	<10.0
PTC5B-1	<25.0	<25.0	<25.0	7,160	<25.0	<25.0	62.3	<25.0
PTC5C-1	<1.0	<1.0	<1.0	2.8	<1.0	1.8	32.2	<1.0
PTC5C-2	<1.0	<1.0	<1.0	2.6	<1.0	1.5	30.7	<1.0
PTC6A-1	<50.0	<50.0	<50.0	7,650	<50.0	<50.0	86.4	<50.0
PTC6B-1	<50.0	<50.0	<50.0	9,110	<50.0	<50.0	75.7	<50.0
PTC6C-1	<10.0	<10.0	<10.0	195	<10.0	<10.0	45.9	<10.0
PTC6C-2	<1.0	<1.0	<1.0	229	<1.0	1.7	45.0	<1.0
PTC6D-1	<0.5	<0.5	<0.5	22.5	<0.5	<0.5	35.0	<0.5
PTC6E-1	<1.0	<1.0	<1.0	>500	1.1	2.1	92.3	<1.0
PTC6E-2	<3.6	<3.6	<3.6	749	<3.6	<3.6	102	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	4,050	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	216	<50.0
PTN2-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	405	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	651	<25.0
PTN3-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	645	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	163	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	262	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	292	<25.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	264	<10.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	424	<25.0
PTN6-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	389	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	306	H <25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	808	<25.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	917	H <25.0
PTN9-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	897	<10.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	566	<50.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,300	H <50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	63.4	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	815	H <50.0
PTC1C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	764	H <50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,200	H <50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.7	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,440	H <25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	158	<2.5
PTC3B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	144	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	475	<50.0
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,030	<50.0
PTC4B-1	<100	<100	<100	<100	<100	<100	1,270	<100
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,160	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	1,070	<100
PTC4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,020	H <50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,580	H <10.0
PTC5B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	810	H <25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	0.6	32.2	H <1.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	30.5	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,220	<50.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,110	H <50.0
PTC6C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	43.8	H <10.0
PTC6C-2	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	44.3	<1.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.8	H <0.5
PTC6E-1	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	142	<1.0
PTC6E-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	155	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-2	<10.0	<10.0	<10.0	10.1	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-2	<10.0	<10.0	<10.0	13.3	<10.0	<10.0	<10.0	<10.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	15.4	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl- benzene (µg/L)	Bromo- benzene (µg/L)	1,1,2,2- Tetrachloro- ethane (µg/L)	n-Propyl- benzene (µg/L)	Penta- chloro- ethane (µg/L)	2-Chloro- toluene (µg/L)	1,2,3- Trichloro- propane (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	62.3	<50.0	17.6 H	<50.0	<50.0
PTN2-2	<25.0	<25.0	<25.0	57.3	<25.0	<25.0	<25.0	<25.0
PTN3-1	<25.0	<25.0	<25.0	55.7	<25.0	<25.0 H	<25.0	<25.0
PTN3-2	<10.0	<10.0	<10.0	60.3	<10.0	20.8 H	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	80.8 H	<50.0	<50.0
PTN4-2	<50.0	<50.0	<50.0	58.2	<50.0	82.6 H	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	63.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<10.0	<10.0	<10.0	56.8	<10.0	<10.0	<10.0	<10.0
PTN6-1	<25.0	<25.0	<25.0	28.6	<25.0	67.1 H	<25.0	<25.0
PTN6-2	<10.0	<10.0	<10.0	24.9	<10.0	76.3 H	<10.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	66.3	<25.0	88.1 L	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	55.8	<25.0	34.4 H	<25.0	<25.0
PTN9-1	<25.0	<25.0	<25.0	54.6	<25.0	86.7 L	<25.0	<25.0
PTN9-2	<10.0	<10.0	<10.0	51.0	<10.0	105 H	<10.0	<10.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	99.2 H	<50.0	<50.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	53.0 L	<50.0	<50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	65.9	<50.0	84.2 L	<50.0	<50.0
PTC1C-2	<50.0	<50.0	<50.0	57.8	<50.0	95.9	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	51.3	<50.0	94.4 H	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	43.5	<25.0	62.5 L	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	3.4	<2.5	<2.5	<2.5	<2.5
PTC3B-2	<1.0	<1.0	<1.0	3.3	<1.0	1.9 H	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	101 H	<50.0	<50.0
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 H	<1,000	<1,000
PTC4A-2	<50.0	<50.0	<50.0	62.3	<50.0	137 H	<50.0	<50.0
PTC4B-1	<100	<100	<100	<100	<100	160 H	<100	<100
PTC4B-2	<50.0	<50.0	<50.0	59.6	<50.0	179 H	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	184 H	<100	<100
PTC4C-2	<50.0	<50.0	<50.0	68.3	<50.0	195	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	58.1	<10.0	78.2	<10.0	<10.0
PTC5B-1	<25.0	<25.0	<25.0	46.3	<25.0	101	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	12.6	<1.0	<1.0	<1.0	<1.0
PTC5C-2	<1.0	<1.0	<1.0	11.6	<1.0	<1.0 H	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	111 H	<50.0	<50.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	102 L	<50.0	<50.0
PTC6C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0 L	<10.0	<10.0
PTC6C-2	<1.0	<1.0	<1.0	3.3	<1.0	2.2 H	<1.0	<1.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5
PTC6E-1	<1.0	<1.0	<1.0	6.1	<1.0	6.4 H	<1.0	<1.0
PTC6E-2	<3.6	<3.6	<3.6	<3.6	<3.6	6.2 H	<3.6	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC3B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4B-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	<100	<100	<100	<100	<100	<100
PTC4C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTB9-B	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTB9-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN2-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	182	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	178	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<25.0	<25.0	521	<25.0	<25.0	<25.0	<25.0	<25.0
PTN6-2	<10.0	<10.0	624	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	329	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	66.2	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<25.0	<25.0	449	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-2	<10.0	<10.0	537	<10.0	<10.0	<10.0	<10.0	<10.0
PTC1A-1	<50.0	<50.0	853	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC1C-1	<50.0	<50.0	410	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1C-2	<50.0	<50.0	455	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<50.0	<50.0	556	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2B-2	<0.5	<0.5	<0.5	H	<0.5	<0.5	<0.5	<0.5
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	181	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<2.5	<2.5	4.5	H	<2.5	<2.5	<2.5	<2.5
PTC3B-2	<1.0	<1.0	4.5	H	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	749	H	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
PTC4A-2	<50.0	<50.0	615	H	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<100	<100	1,390	H	<100	<100	<100	<100
PTC4B-2	<50.0	<50.0	1,450	H	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<100	<100	2,290	H	<100	<100	<100	<100
PTC4C-2	<50.0	<50.0	2,620	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	393	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<25.0	<25.0	1,420	<25.0	<25.0	<25.0	<25.0	<25.0
PTC5C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	368	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-1	<50.0	<50.0	540	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6C-2	<1.0	<1.0	1.1	H	<1.0	<1.0	<1.0	<1.0
PTC6D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC6E-1	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-2	<3.6	<3.6	8.6	<3.6	<3.6	<3.6	<3.6	<3.6

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC7A-1	1	8/8/2005	1430	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7A-2	2	8/8/2005	1005	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7B-1	1	8/9/2005	830	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7B-2	2	8/9/2005	830	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	NR	8/9/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	NR	8/9/2005	1000	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1B	NR	8/9/2005	1025	<0.5	<0.5	4.1 H	<0.5	<0.5
PTC8A-1	1	8/9/2005	1100	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8A-2	2	8/9/2005	1100	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	NR	8/9/2005	1315	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8C-1	1	8/11/2005	1015	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8C-2	2	8/11/2005	1015	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-1	NR	8/11/2005	1100	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8E-1	NR	8/12/2005	900	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	1	8/16/2005	950	<25.0 L	<25.0 L	<25.0 L	<25.0 L	<25.0 L
PTC9A-2	2	8/16/2005	950	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	1	8/16/2005	920	<25.0 L	<25.0 L	<25.0 L	<25.0 L	<25.0 L
PTC9B-1	2	8/16/2005	925	<25.0 L	<25.0 L	<25.0 L	<25.0 L	<25.0 L
PTC9C-1	NR	8/15/2005	1530	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	1	8/15/2005	1400	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	2	8/15/2005	1400	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	NR	8/15/2005	1430	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10A-1	1	8/10/2005	1115	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10A-2	2	8/10/2005	1115	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	1	8/10/2005	1220	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	2	8/10/2005	1220	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	NR	8/10/2005	1500	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	NR	8/10/2005	845	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	1	8/9/2005	1550	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10E-1	2	8/10/2005	1555	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	1	8/16/2005	1045	<25.0 L	<25.0 L	<25.0 L	<25.0 L	<25.0 L
PTC11A-2	2	8/16/2005	1045	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	NR	8/16/2005	1110	<50.0 L	<50.0 L	<50.0 L	<50.0 L	<50.0 L
PTC11C-1	NR	8/16/2005	1340	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	1	8/16/2005	1405	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	2	8/16/2005	1405	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	1	8/16/2005	1440	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11E-2	2	8/16/2005	1440	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	NR	8/17/2005	850	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	NR	8/15/2005	1020	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	1	8/15/2005	1045	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12B-2	2	8/15/2005	1045	<2.5	<2.5	<2.5	<2.5	<2.5
PTC12C-1	NR	8/15/2005	1240	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	NR	8/11/2005	1410	<0.5	<0.5	3.1 H	<0.5	<0.5
PTC12E-1	NR	8/11/2005	1140	<0.5	<0.5	5.6 H	<0.5	<0.5
PTC12F-1	NR	8/11/2005	1320	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	NR	8/17/2005	955	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13B-1	NR	8/17/2005	1215	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro-fluoro-methane (µg/L)	1,1-Dichloro-ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2-Dichloro-ethene (µg/L)	1,1-Dichloro-ethane (µg/L)	2,2-Dichloro-propane (µg/L)	cis-1,2-Dichloro-ethene (µg/L)	Chloroform (µg/L)
PTC7A-1	<2.5	6.3	11.0	22.0	4.3	<2.5	8.6	>1,250
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,170
PTC7B-1	<2.5	4.1	35.7	12.3	3.3	<2.5	8.2	>1,250
PTC7B-2	<25.0	<25.0	32.5	<25.0	<25.0	<25.0	<25.0	5,320
PTC7C-1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	2.7	34.3
PTC7D-1	<0.5	0.9	5.9	3.1	<0.5	<0.5	8.3	62.4
PTC7D-1B	<0.5	1.8	6.4	6.4	<0.5	<0.5	22.5	136
PTC8A-1	<1.7	<1.7	29.0	4.9	<1.7	<1.7	4.2	>833
PTC8A-2	<2.5	<2.5	30.0	5.0	<2.5	<2.5	4.9	1,070
PTC8B-1	<1.7	2.9	<1.7	9.7	<1.7	<1.7	8.0	127
PTC8C-1	<0.5	1.0	0.9	3.0	0.8	<0.5	4.0	139
PTC8C-2	<0.5	<0.5	0.8	3.1	0.8	<0.5	4.0	136
PTC8D-1	<1.7	<1.7	<1.7	3.0	<1.7	<1.7	5.1	453
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,030
PTC9A-1	<25.0 L	<25.0 L	38.7	<25.0	<25.0	<25.0	<25.0	9,040
PTC9A-2	<50.0 L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	9,320
PTC9B-1	<25.0 L	<25.0 L	39.5	<25.0	<25.0	<25.0	<25.0	8,210
PTC9B-1	<25.0 L	<25.0 L	43.1	<25.0	<25.0	<25.0	<25.0	8,150
PTC9C-1	<25.0	<25.0	38.9	<25.0	<25.0	<25.0	<25.0	6,470
PTC9D-1	<10.0	<10.0	37.9	<10.0	<10.0	<10.0	<10.0	>5,000
PTC9D-2	<25.0	<25.0	38.0	<25.0	<25.0	<25.0	<25.0	7,090
PTC9E-1	<25.0	<25.0	35.5	<25.0	<25.0	<25.0	<25.0	8,140
PTC10A-1	<2.5	4.6	7.7	15.8	<2.5	<2.5	8.9	1,060
PTC10A-2	<3.6	5.9	8.5	18.0	<3.6	<3.6	9.3	1,100
PTC10B-1	<10.0	<10.0	40.7	<10.0	<10.0	<10.0	<10.0	4,170
PTC10B-2	<25.0	<25.0	40.8	<25.0	<25.0	<25.0	<25.0	4,100
PTC10C-1	<1.7	<1.7	5.4	4.7	<1.7	<1.7	11.8	699
PTC10D-1	<0.5	<0.5	1.1	1.2	0.7	<0.5	2.6	116
PTC10E-1	<10.0	<10.0	30.9	<10.0	<10.0	<10.0	<10.0	3,160
PTC10E-1	<10.0	<10.0	29.4	<10.0	<10.0	<10.0	<10.0	3,020
PTC11A-1	<25.0 L	<25.0 L	57.3	<25.0	<25.0	<25.0	<25.0	5,760
PTC11A-2	<50.0	<50.0	61.7	<50.0	<50.0	<50.0	<50.0	5,630
PTC11B-1	<50.0 L	<50.0 L	<50.0	<50.0	<50.0	<50.0	<50.0	5,170
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,640
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	4,840
PTC11D-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,910
PTC11E-1	<10.0	<10.0	10.8	<10.0	<10.0	<10.0	<10.0	>5,000
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,630
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	4,700
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112	2,480
PTC12B-1	<0.5	5.1	4.0	15.6	1.3	<0.5	239	>250
PTC12B-2	<2.5	5.6	5.0	16.5	<2.5	<2.5	245	1,010
PTC12C-1	<1.0	1.8	1.3	5.3	<1.0	<1.0	112	216
PTC12D-1	<0.5	1.4	1.1	3.9	<0.5	<0.5	84.4	151
PTC12E-1	<0.5	2.0	0.9	5.2	<0.5	<0.5	117	176
PTC12F-1	<0.5	1.0	<0.5	4.2	1.0	<0.5	29.6	32.5
PTC13A-1	<25.0 L	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,640
PTC13B-1	<10.0 L	<10.0	12.2	<10.0	<10.0	<10.0	<10.0	1,140

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	43.7	4.8	7.8	224	<2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	186	<25.0
PTC7B-1	<2.5	<2.5	<2.5	1,140	4.0	8.3	199	<2.5
PTC7B-2	<25.0	<25.0	<25.0	935	<25.0	<25.0	168	<25.0
PTC7C-1	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	20.1	<0.5
PTC7D-1	<0.5	<0.5	<0.5	3.0	1.1	0.5	43.1	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	7.5	1.7	0.9	77.9	<0.5
PTC8A-1	<1.7	<1.7	<1.7	128	2.5	3.5	71.6	<1.7
PTC8A-2	<2.5	<2.5	<2.5	130	2.9	3.5	73.7	<2.5
PTC8B-1	<1.7	<1.7	<1.7	18.1	<1.7	<1.7	281	<1.7
PTC8C-1	<0.5	<0.5	<0.5	136	2.3	<0.5	27.5	<0.5
PTC8C-2	<0.5	<0.5	<0.5	134	2.3	<0.5	26.8	<0.5
PTC8D-1	<1.7	<1.7	<1.7	155	1.8	<1.7	32.2	<1.7
PTC8E-1	<10.0	<10.0	<10.0	1,370	<10.0	<10.0	40.5	<10.0
PTC9A-1	<25.0	<25.0	<25.0	2,940	<25.0	<25.0	98.1	<25.0
PTC9A-2	<50.0	<50.0	<50.0	2,920	<50.0	<50.0	91.4	<50.0
PTC9B-1	<25.0	<25.0	<25.0	8,470	<25.0	<25.0	77.3	<25.0
PTC9B-1	<25.0	<25.0	<25.0	8,460	<25.0	<25.0	74.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	4,720	<25.0	<25.0	61.7	<25.0
PTC9D-1	<10.0	<10.0	<10.0	>5,000	<10.0	10.6	61.3	<10.0
PTC9D-2	<25.0	<25.0	<25.0	7,670	<25.0	<25.0	58.5	<25.0
PTC9E-1	<25.0	<25.0	<25.0	11,300	<25.0	<25.0	101	<25.0
PTC10A-1	<2.5	<2.5	<2.5	146	<2.5	3.4	151	<2.5
PTC10A-2	<3.6	<3.6	<3.6	154	<3.6	3.8	155	<3.6
PTC10B-1	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	95.2	<10.0
PTC10B-2	<25.0	<25.0	<25.0	5,620	<25.0	<25.0	103	<25.0
PTC10C-1	<1.7	<1.7	<1.7	480	<1.7	1.6	49.8	<1.7
PTC10D-1	<0.5	<0.5	<0.5	48.0	<0.5	<0.5	13.1	<0.5
PTC10E-1	<10.0	<10.0	<10.0	3,460	<10.0	<10.0	94.8	<10.0
PTC10E-1	<10.0	<10.0	<10.0	3,210	<10.0	<10.0	92.5	<10.0
PTC11A-1	<25.0	<25.0	<25.0	>12,500	<25.0	<25.0	77.2	<25.0
PTC11A-2	<50.0	<50.0	<50.0	13,400	<50.0	<50.0	83.4	<50.0
PTC11B-1	<50.0	<50.0	<50.0	11,600	<50.0	<50.0	86.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	10,200	<50.0	<50.0	96.7	<50.0
PTC11D-1	<25.0	<25.0	<25.0	11,100	<25.0	<25.0	96.0	<25.0
PTC11D-2	<50.0	<50.0	<50.0	11,200	<50.0	<50.0	103	<50.0
PTC11E-1	<10.0	<10.0	<10.0	>5,000	<10.0	<10.0	91.2	<10.0
PTC11E-2	<50.0	<50.0	<50.0	10,800	<50.0	<50.0	94.6	<50.0
PTC11F-1	<50.0	<50.0	<50.0	11,500	<50.0	<50.0	94.4	<50.0
PTC12A-1	<10.0	<10.0	<10.0	321	<10.0	<10.0	310	<10.0
PTC12B-1	<0.5	<0.5	<0.5	>250	<0.5	2.9	>250	<0.5
PTC12B-2	<2.5	<2.5	<2.5	528	<2.5	3.1	631	<2.5
PTC12C-1	<1.0	<1.0	<1.0	21.8	<1.0	<1.0	295	<1.0
PTC12D-1	<0.5	<0.5	<0.5	7.9	<0.5	<0.5	178	<0.5
PTC12E-1	<0.5	<0.5	<0.5	10.1	<0.5	<0.5	190	<0.5
PTC12F-1	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	44.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	4,410	<25.0	<25.0	53.1	<25.0
PTC13B-1	<10.0	<10.0	<10.0	1,970	<10.0	<10.0	137	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	<2.5	<2.5	6.7	>1,250	H <2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,110	<25.0
PTC7B-1	<2.5	<2.5	<2.5	<2.5	<2.5	8.1	1,150	H <2.5
PTC7B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	912	<25.0
PTC7C-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	8.5	H <0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	39.4	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	82.4	H <0.5
PTC8A-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	287	<1.7
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	291	<2.5
PTC8B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	223	H <1.7
PTC8C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32.0	H <0.5
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30.2	<0.5
PTC8D-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	32.5	H <1.7
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	158	<10.0
PTC9A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,080	<25.0
PTC9A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,130	H <50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	751	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	743	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	470	H <25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	12.6	452	H <10.0
PTC9D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	403	<25.0
PTC9E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	616	H <25.0
PTC10A-1	<2.5	<2.5	<2.5	<2.5	<2.5	2.5	>1,250	<2.5
PTC10A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,520	<3.6
PTC10B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,210	<10.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,150	<25.0
PTC10C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	164	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	27.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	845	<10.0
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	731	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,070	<25.0
PTC11A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	983	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,140	<50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,120	H <50.0
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,090	H <25.0
PTC11D-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,110	<50.0
PTC11E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,080	H <10.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	937	<50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,070	H <50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	959	H <10.0
PTC12B-1	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	>250	H <0.5
PTC12B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1,230	<2.5
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	72.7	H <1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	51.2	H <0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	52.1	H <0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18.1	H <0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	836	H <25.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,320	H <10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	2.8	<2.5	<2.5	<2.5	<2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7B-1	<2.5	<2.5	<2.5	9.6	<2.5	<2.5	<2.5	<2.5
PTC7B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	22.4	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10A-1	<2.5	<2.5	<2.5	3.4	<2.5	<2.5	<2.5	<2.5
PTC10A-2	<3.6	<3.6	<3.6	4.1	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<10.0	<10.0	<10.0	14.8	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.7	<1.7	<1.7	2.3	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	10.7	<10.0	<10.0	<10.0	<10.0
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	32.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<25.0	<25.0	<25.0	25.2	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<10.0	<10.0	<10.0	27.5	<10.0	<10.0	<10.0	<10.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<0.5	<0.5	<0.5	4.8	<0.5	<0.5	<0.5	<0.5
PTC12B-2	<2.5	<2.5	<2.5	5.6	<2.5	<2.5	<2.5	<2.5
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	32.4	<2.5	<2.5 L	<2.5	<2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7B-1	<2.5	<2.5	<2.5	38.7	<2.5	18.5 L	<2.5	<2.5
PTC7B-2	<25.0	<25.0	<25.0	38.6	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 L	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	1.1	<0.5	<0.5 L	<0.5	<0.5
PTC8A-1	<1.7	<1.7	<1.7	14.1	<1.7	5.0 L	<1.7	<1.7
PTC8A-2	<2.5	<2.5	<2.5	14.7	<2.5	5.0 H	<2.5	<2.5
PTC8B-1	<1.7	<1.7	<1.7	7.2	<1.7	2.2 L	<1.7	<1.7
PTC8C-1	<0.5	<0.5	<0.5	1.5	<0.5	0.9	<0.5	<0.5
PTC8C-2	<0.5	<0.5	<0.5	1.5	<0.5	1.1 H	<0.5	<0.5
PTC8D-1	<1.7	<1.7	<1.7	8.0	<1.7	<1.7	<1.7	<1.7
PTC8E-1	<10.0	<10.0	<10.0	19.8	<10.0	11.9 H	<10.0	<10.0
PTC9A-1	<25.0	<25.0	<25.0	71.4	<25.0	55.0 H	<25.0	<25.0
PTC9A-2	<50.0	<50.0	<50.0	85.1	<50.0	51.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	59.2	<25.0	78.8 H	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	62.2	<25.0	81.3 H	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	56.4	<25.0	48.5 L	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	62.4	<10.0	89.8 L	<10.0	<10.0
PTC9D-2	<25.0	<25.0	<25.0	58.6	<25.0	80.1 H	<25.0	<25.0
PTC9E-1	<25.0	<25.0	<25.0	64.3	<25.0	94.3 L	<25.0	<25.0
PTC10A-1	<2.5	<2.5	<2.5	37.3	<2.5	7.1 H	<2.5	<2.5
PTC10A-2	<3.6	<3.6	<3.6	39.6	<3.6	8.4 H	<3.6	<3.6
PTC10B-1	<10.0	<10.0	<10.0	48.0	<10.0	98.7 H	<10.0	<10.0
PTC10B-2	<25.0	<25.0	<25.0	53.3	<25.0	81.0 H	<25.0	<25.0
PTC10C-1	<1.7	<1.7	<1.7	17.5	<1.7	9.4 H	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	48.6	<10.0	73.2 H	<10.0	<10.0
PTC10E-1	<10.0	<10.0	<10.0	52.8	<10.0	66.9 H	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	74.2	<25.0	200 H	<25.0	<25.0
PTC11A-2	<50.0	<50.0	<50.0	74.4	<50.0	193 H	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	94.2	<50.0	179 H	<50.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	84.8	<50.0	153	<50.0	<50.0
PTC11D-1	<25.0	<25.0	<25.0	90.4	<25.0	164	<25.0	<25.0
PTC11D-2	<50.0	<50.0	<50.0	84.7	<50.0	172 H	<50.0	<50.0
PTC11E-1	<10.0	<10.0	<10.0	96.4	<10.0	193	<10.0	<10.0
PTC11E-2	<50.0	<50.0	<50.0	80.4	<50.0	175 H	<50.0	<50.0
PTC11F-1	<50.0	<50.0	<50.0	97.6	<50.0	171	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	60.0	<10.0	19.7 L	<10.0	<10.0
PTC12B-1	<0.5	<0.5	<0.5	35.3	<0.5	30.9 L	<0.5	<0.5
PTC12B-2	<2.5	<2.5	<2.5	36.9	<2.5	30.6 H	<2.5	<2.5
PTC12C-1	<1.0	<1.0	<1.0	4.1	<1.0	<1.0 L	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	34.3	<25.0	122	<25.0	<25.0
PTC13B-1	<10.0	<10.0	<10.0	49.2	<10.0	73.3	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7B-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8A-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11E-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12B-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC7A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7B-1	<2.5	<2.5	15.0	<2.5	<2.5	<2.5	<2.5	<2.5
PTC7B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	H	<0.5	<0.5	<0.5	<0.5
PTC7D-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<1.7	<1.7	16.5	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8A-2	<2.5	<2.5	16.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-1	<1.7	<1.7	9.1	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8C-1	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8C-2	<0.5	<0.5	1.3	H	<0.5	<0.5	<0.5	<0.5
PTC8D-1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC8E-1	<10.0	<10.0	55.4	H	<10.0	<10.0	<10.0	<10.0
PTC9A-1	<25.0	<25.0	79.8	H	<25.0	<25.0	<25.0	<25.0
PTC9A-2	<50.0	<50.0	73.9	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9B-1	<25.0	<25.0	400	H	<25.0	<25.0	<25.0	<25.0
PTC9B-1	<25.0	<25.0	394	H	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	204	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<10.0	<10.0	650	<10.0	<10.0	<10.0	<10.0	<10.0
PTC9D-2	<25.0	<25.0	632	H	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<25.0	<25.0	980	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC10A-2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<10.0	<10.0	791	H	<10.0	<10.0	<10.0	<10.0
PTC10B-2	<25.0	<25.0	678	H	<25.0	<25.0	<25.0	<25.0
PTC10C-1	<1.7	<1.7	5.9	H	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	H	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	734	H	<10.0	<10.0	<10.0	<10.0
PTC10E-1	<10.0	<10.0	656	H	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<25.0	<25.0	3,010	H	<25.0	<25.0	<25.0	<25.0
PTC11A-2	<50.0	<50.0	2,950	H	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	2,660	H	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	2,340	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<25.0	<25.0	2,560	<25.0	<25.0	<25.0	<25.0	<25.0
PTC11D-2	<50.0	<50.0	2,490	H	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<10.0	<10.0	3,450	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11E-2	<50.0	<50.0	2,800	H	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	3,320	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1	<0.5	<0.5	37.8	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12B-2	<2.5	<2.5	37.3	H	<2.5	<2.5	<2.5	<2.5
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<25.0	<25.0	1,670	<25.0	<25.0	<25.0	<25.0	<25.0
PTC13B-1	<10.0	<10.0	979	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC13C-1	NR	8/17/2005	1035	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	NR	8/17/2005	1105	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	NR	8/16/2005	1030	<2.5 L	<2.5 L	<2.5 L	<2.5 L	<2.5 L
PTZ1B-1	NR	8/16/2005	1200	<0.5 L	<0.5 L	<0.5 L	<0.5 L	<0.5 L
PTZ1C-1	NR	8/16/2005	1310	<10.0 L	<10.0 L	<10.0 L	<10.0 L	<10.0 L
PTZ1D-1	NR	8/16/2005	1400	<0.5 L	<0.5 L	<0.5 L	<0.5 L	<0.5 L
PTZ1E-1	NR	8/16/2005	1430	<3.6 L	<3.6 L	<3.6 L	<3.6 L	<3.6 L
PTZ2A-1	NR	8/15/2005	1245	<0.5 L	<0.5 L	<0.5 L	<0.5 L	<0.5 L
PTZ2B-1	NR	8/15/2005	1500	<0.5 L	<0.5 L	<0.5 L	<0.5 L	<0.5 L
PTZ2C-1	NR	8/16/2005	1015	<0.5 L	<0.5 L	<0.5 L	<0.5 L	<0.5 L
PTZ2D-1	1	8/17/2005	915	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	2	8/17/2005	915	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2E-1	1	8/17/2005	1015	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2E-2	2	8/17/2005	1015	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	NR	8/17/2005	1320	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	NR	8/17/2005	1335	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	1	8/17/2005	1340	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4C-2	2	8/17/2005	1340	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	1	9/20/2005	1324	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	2	9/20/2005	1324	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	NR	9/20/2005	1305	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	NR	9/20/2005	1122	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	1	9/20/2005	1155	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	2	9/20/2005	1155	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	1	9/20/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTN5-2	2	9/20/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	NR	9/20/2005	1058	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	NR	9/20/2005	1258	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	NR	9/20/2005	1030	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	NR	9/20/2005	1028	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-B	NR	9/21/2005	--	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-C	NR	9/21/2005	--	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2-B	NR	9/21/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	NR	9/21/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	NR	9/21/2005	--	<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	NR	9/21/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	NR	9/21/2005	--	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	NR	9/21/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	NR	9/21/2005	--	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6-C	NR	9/21/2005	--	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	NR	9/21/2005	--	<2.5	<2.5	14.2	<2.5	<2.5
PTB7-C	NR	9/21/2005	--	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	NR	9/21/2005	--	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	NR	9/21/2005	--	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	NR	9/21/2005	--	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC13C-1	<3.6	<3.6	16.5	<3.6	<3.6	<3.6	8.5	1,370
PTC13D-1	<3.6	4.5	11.2	6.4	<3.6	<3.6	10.7	1,240
PTZ1A-1	<2.5 L	7.8 L	<2.5	23.0	2.7	<2.5	11.9	949
PTZ1B-1	<0.5 L	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0 L	<10.0 L	14.6	<10.0	<10.0	<10.0	<10.0	4,950
PTZ1D-1	<0.5 L	3.2 L	<0.5	<0.5	<0.5	<0.5	<0.5	4.5
PTZ1E-1	<3.6 L	<3.6 L	<3.6	<3.6	<3.6	<3.6	<3.6	1,450
PTZ2A-1	<0.5 L	<0.5 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5 L	<0.5 L	<0.5	<0.5	<0.5	<0.5	1.4	<0.5
PTZ2C-1	<0.5 L	<0.5 L	<0.5	5.2	<0.5	<0.5	86.7	<0.5
PTZ2D-1	<25.0	68.3	<25.0	<25.0	<25.0	<25.0	<25.0	1,260
PTZ2D-2	<2.5	63.7	24.2	<2.5	<2.5	<2.5	<2.5	>1,250
PTZ2E-1	<0.5	<0.5	6.7	<0.5	<0.5	<0.5	<0.5	>250
PTZ2E-2	<2.5	<2.5	7.5	<2.5	<2.5	<2.5	<2.5	432
PTZ4A-1	<0.5	1.0	<0.5	4.9	<0.5	<0.5	85.8	12.3
PTZ4B-1	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	0.5	21.0
PTZ4C-1	<2.5	<2.5	4.1	<2.5	<2.5	<2.5	<2.5	>1,250
PTZ4C-2	<10.0 L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,050
PTN1-1	<50.0	<50.0	91.1	<50.0	<50.0	<50.0	<50.0	5,470
PTN1-2	<25.0	<25.0	96.8	<25.0	<25.0	<25.0	37.9	5,430
PTN2-1	<25.0	<25.0	208	<25.0	<25.0	<25.0	56.6	7,000
PTN3-1	<10.0	<10.0	91.9	<10.0	<10.0	<10.0	37.4	2,860
PTN4-1	<50.0	<50.0	901	<50.0	<50.0	<50.0	<50.0	8,130
PTN4-2	<50.0	<50.0	872	<50.0	<50.0	<50.0	<50.0	7,450
PTN5-1	<10.0	<10.0	95.7	<10.0	<10.0	<10.0	56.7	2,310
PTN5-2	<10.0	<10.0	92.6	<10.0	<10.0	<10.0	53.4	2,220
PTN6-1	<10.0	<10.0	63.0	<10.0	<10.0	<10.0	36.0	1,970
PTN7-1	<25.0	<25.0	217	<25.0	<25.0	<25.0	<25.0	6,220
PTN8-1	<25.0	<25.0	784	<25.0	<25.0	<25.0	120	5,710
PTN9-1	<10.0	<10.0	43.0	<10.0	<10.0	<10.0	38.6	2,800
PTB1-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	1.4
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5	14.0	3.5	<2.5	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0	11.6	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC13C-1	<3.6	<3.6	<3.6	661	<3.6	<3.6	138	<3.6
PTC13D-1	<3.6	<3.6	<3.6	339	<3.6	<3.6	169	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	6.6	<2.5	281	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	4,570	<10.0	<10.0	55.6	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	357	<3.6	<3.6	6.8	<3.6
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<0.5	<0.5	<0.5	<0.5	0.6	0.8	45.8	<0.5
PTZ2D-1	<25.0	<25.0	<25.0	696	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	<2.5	<2.5	<2.5	856	<2.5	2.8	3.7	<2.5
PTZ2E-1	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	1.2	<0.5
PTZ2E-2	<2.5	<2.5	<2.5	359	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	5.2	0.8	<0.5	56.8	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	14.7	<0.5	<0.5	3.6	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	> 1,250	1.2	2.7	14.5	<2.5
PTZ4C-2	<10.0	<10.0	<10.0	2,120	<10.0	<10.0	14.4	<10.0
PTN1-1	<50.0	<50.0	<50.0	343	<50.0	<50.0	210	<50.0
PTN1-2	<25.0	<25.0	<25.0	356	<25.0	<25.0	197	<25.0
PTN2-1	<25.0	<25.0	<25.0	219	<25.0	<25.0	224	<25.0
PTN3-1	<10.0	<10.0	<10.0	55.6	<10.0	<10.0	204	<10.0
PTN4-1	<50.0	<50.0	<50.0	2,950	<50.0	<50.0	114	<50.0
PTN4-2	<50.0	<50.0	<50.0	2,810	<50.0	<50.0	99.5	<50.0
PTN5-1	<10.0	<10.0	<10.0	23.5	<10.0	<10.0	279	<10.0
PTN5-2	<10.0	<10.0	<10.0	20.5	<10.0	<10.0	280	<10.0
PTN6-1	<10.0	<10.0	<10.0	1,780	<10.0	<10.0	91.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	2,210	<25.0	<25.0	50.6	<25.0
PTN8-1	<25.0	<25.0	<25.0	828	<25.0	<25.0	108	<25.0
PTN9-1	<10.0	<10.0	<10.0	1,780	<10.0	<10.0	85.3	<10.0
PTB1-B	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5	<2.5	2.7	6.0	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC13C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	686	<3.6
PTC13D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,350	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	526	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	217	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	16.6	<3.6
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	75.5	<0.5
PTZ2D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	12.6	<2.5
PTZ2E-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	11.6	H <0.5
PTZ2E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	12.4	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.9	H <0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16.8	H <0.5
PTZ4C-1	<2.5	<2.5	<2.5	2.2	<2.5	2.7	115	H <2.5
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	99.4	H <10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	380	<50.0
PTN1-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	387	<25.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	870	<25.0
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,390	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	416	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	384	<50.0
PTN5-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	541	<10.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	496	<10.0
PTN6-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	329	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	219	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	910	<25.0
PTN9-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	375	<10.0
PTB1-B	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5	> 250	<0.5	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0	11.7	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0	1,890	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0	1,520	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0	5,470	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0	1,560	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	0.6	<0.5
PTB6-C	<25.0	<25.0	<25.0	1,910	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5	708	<2.5	<2.5	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0	646	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	3,340	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5	5.7	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0	1,570	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC13C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	<3.6	5.4	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	10.2	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2E-1	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5
PTZ2E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	5.5	<2.5	<2.5	<2.5	<2.5
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<10.0	<10.0	<10.0	10.3	<10.0	<10.0	<10.0	<10.0
PTB1-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC13C-1	<3.6	<3.6	<3.6	33.9	<3.6	23.1	H	<3.6
PTC13D-1	<3.6	<3.6	<3.6	45.4	<3.6	38.6	H	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	20.1	<2.5	<2.5		<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ1C-1	<10.0	<10.0	<10.0	50.2	<10.0	39.9	H	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ1E-1	<3.6	<3.6	<3.6	6.8	<3.6	6.4	H	<3.6
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ2C-1	<0.5	<0.5	<0.5	6.2	<0.5	<0.5		<0.5
PTZ2D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		<25.0
PTZ2D-2	<2.5	<2.5	<2.5	3.8	<2.5	<2.5		<2.5
PTZ2E-1	<0.5	<0.5	<0.5	1.5	<0.5	6.2		<0.5
PTZ2E-2	<2.5	<2.5	<2.5	3.7	<2.5	7.4	H	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5		<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ4C-1	<2.5	<2.5	<2.5	15.9	<2.5	22.5		<2.5
PTZ4C-2	<10.0	<10.0	<10.0	15.6	<10.0	19.1		<10.0
PTN1-1	<50.0	<50.0	<50.0	56.6	<50.0	<50.0		<50.0
PTN1-2	<25.0	<25.0	<25.0	61.3	<25.0	<25.0		<25.0
PTN2-1	<25.0	<25.0	<25.0	55.2	<25.0	<25.0		<25.0
PTN3-1	<10.0	<10.0	<10.0	55.7	<10.0	10.7		<10.0
PTN4-1	<50.0	<50.0	<50.0	51.1	<50.0	73.8		<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	70.8		<50.0
PTN5-1	<10.0	<10.0	<10.0	44.4	<10.0	<10.0		<10.0
PTN5-2	<10.0	<10.0	<10.0	41.1	<10.0	<10.0		<10.0
PTN6-1	<10.0	<10.0	<10.0	15.3	<10.0	48.8		<10.0
PTN7-1	<25.0	<25.0	<25.0	39.8	<25.0	48.2		<25.0
PTN8-1	<25.0	<25.0	<25.0	54.5	<25.0	37.5		<25.0
PTN9-1	<10.0	<10.0	<10.0	42.9	<10.0	59.2		<10.0
PTB1-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTB1-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTB2-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
PTB2-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
PTB4-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		<25.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0		<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		<25.0
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0		<50.0
PTB6-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		<25.0
PTB7-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5
PTB7-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0		<50.0
PTB9-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		<2.5
PTB9-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC13C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2E-2	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN5-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTB6-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)		1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC13C-1	<3.6	<3.6	56.0	H	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	120	H	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	247	H	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	13.1	H	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTZ2D-2	<2.5	<2.5	3.3	H	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ2E-1	<0.5	<0.5	37.8		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2E-2	<2.5	<2.5	35.4	H	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	0.9		<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<2.5	<2.5	189		<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4C-2	<10.0	<10.0	142		<10.0	<10.0	<10.0	<10.0	<10.0
PTN1-1	<50.0	<50.0	<50.0		<50.0	<50.0	<50.0	<50.0	<50.0
PTN1-2	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTN2-1	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTN3-1	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTN4-1	<50.0	<50.0	146		<50.0	<50.0	<50.0	<50.0	<50.0
PTN4-2	<50.0	<50.0	152		<50.0	<50.0	<50.0	<50.0	<50.0
PTN5-1	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTN5-2	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTN6-1	<10.0	<10.0	337		<10.0	<10.0	<10.0	<10.0	<10.0
PTN7-1	<25.0	<25.0	202		<25.0	<25.0	<25.0	<25.0	<25.0
PTN8-1	<25.0	<25.0	43.6		<25.0	<25.0	<25.0	<25.0	<25.0
PTN9-1	<10.0	<10.0	238		<10.0	<10.0	<10.0	<10.0	<10.0
PTB1-B	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTB1-C	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTB2-B	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTB2-C	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTB4-B	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTB4-C	<50.0	<50.0	<50.0		<50.0	<50.0	<50.0	<50.0	<50.0
PTB5-B	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTB5-C	<50.0	<50.0	<50.0		<50.0	<50.0	<50.0	<50.0	<50.0
PTB6-B	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
PTB6-C	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0
PTB7-B	<2.5	<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5
PTB7-C	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
PTB8-C	<50.0	<50.0	<50.0		<50.0	<50.0	<50.0	<50.0	<50.0
PTB9-B	<2.5	<2.5	<2.5		<2.5	<2.5	<2.5	<2.5	<2.5
PTB9-C	<25.0	<25.0	<25.0		<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC1A-1	NR	9/21/2005	1112	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	NR	9/22/2005	845	<1.0	<1.0	<1.0	<1.0	<1.0
PTC1C-1	NR	9/21/2005	1323	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	1	9/21/2005	947	<25.0	<25.0	<25.0	<25.0	<25.0
PTC2A-2	2	9/21/2005	947	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2B-1	1	9/22/2005	935	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2B-2	2	9/22/2005	935	<1.7	<1.7	<1.7	<1.7	<1.7
PTC2C-1	1	9/23/2005	1230	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	1	9/21/2005	1005	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3A-2	2	9/21/2005	1005	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	NR	9/21/2005	1135	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	NR	9/21/2005	1345	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	1	9/21/2005	1423	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	2	9/21/2005	1423	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	NR	9/22/2005	1400	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	NR	9/23/2005	1035	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	NR	9/23/2005	1140	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	1	9/23/2005	1335	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5B-2	2	9/23/2005	1335	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5C-2	1	9/26/2005	1020	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	1	9/22/2005	943	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6A-2	2	9/22/2005	943	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	1	9/22/2005	1012	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-2	2	9/22/2005	1012	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6C-1	1	9/22/2005	1048	<3.6	<3.6	<3.6	<3.6	<3.6
PTC6C-2	2	9/22/2005	1048	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	1	9/28/2005	920	<1.0	<1.0	1.4 H	<1.0	<1.0
PTC6D-2	2	9/28/2005	920	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	NR	9/28/2005	935	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	NR	9/22/2005	1330	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	NR	9/22/2005	1400	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	NR	9/23/2005	837	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	1	9/28/2005	900	<0.5	<0.5	2.1 H	<0.5	<0.5
PTC7D-2	2	9/28/2005	900	<0.5	<0.5	2.3 H	<0.5	<0.5
PTC8A-1	NR	9/23/2005	1105	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-2	NR	9/23/2005	1058	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8C-2	NR	9/23/2005	1223	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-2	NR	9/23/2005	1312	<1.7	<1.7	<1.7	<1.7	<1.7
PTC9B-1	NR	9/27/2005	1325	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	NR	9/27/2005	1405	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1B	NR	9/27/2005	1410	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	NR	9/27/2005	1145	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	NR	9/28/2005	915	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9E-1B	NR	9/28/2005	920	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9A-1	NR	9/28/2005	1300	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	NR	9/27/2005	1320	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	1	9/27/2005	1345	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC1A-1	<50.0	<50.0	110	<50.0	<50.0	<50.0	<50.0	8,980
PTC1B-1	<1.0	2.1	6.6	3.6	<1.0	<1.0	6.7	>500
PTC1C-1	<50.0	<50.0	68.0	<50.0	<50.0	<50.0	<50.0	9,920
PTC2A-1	<25.0	<25.0	38.1	<25.0	<25.0	<25.0	<25.0	2,540
PTC2A-2	<10.0	<10.0	33.6	<10.0	<10.0	<10.0	<10.0	2,460
PTC2B-1	<0.5	<0.5	12.5	0.8	<0.5	<0.5	3.6	>250
PTC2B-2	<1.7	<1.7	12.8	<1.7	<1.7	<1.7	3.7	486
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0	7.6
PTC3A-1	<25.0	<25.0	80.2	<25.0	<25.0	<25.0	<25.0	6,510
PTC3A-2	<25.0	<25.0	82.6	<25.0	<25.0	<25.0	<25.0	6,040
PTC3B-1	<1.0	3.3	5.5	8.9	2.3	<1.0	12.8	365
PTC3C-1	<50.0	<50.0	82.2	<50.0	<50.0	<50.0	<50.0	6,290
PTC4A-1	<50.0	<50.0	184	<50.0	<50.0	<50.0	<50.0	11,500
PTC4A-2	<50.0	<50.0	167	<50.0	<50.0	<50.0	<50.0	11,100
PTC4B-1	<50.0	<50.0	160	<50.0	<50.0	<50.0	<50.0	9,180
PTC4C-1	<50.0	<50.0	137	<50.0	<50.0	<50.0	<50.0	7,410
PTC5A-1	<10.0	<10.0	51.1	<10.0	<10.0	<10.0	<10.0	3,150
PTC5B-1	<50.0	<50.0	55.6	<50.0	<50.0	<50.0	<50.0	2,630
PTC5B-2	<10.0	<10.0	57.2	<10.0	<10.0	<10.0	2.7	2,620
PTC5C-2	<1.0	1.8	3.4	2.8	1.0	<1.0	3.2	>500
PTC6A-1	<50.0	<50.0	61.8	<50.0	<50.0	<50.0	<50.0	6,030
PTC6A-2	<25.0	<25.0	75.2	<25.0	<25.0	<25.0	<25.0	6,190
PTC6B-1	<50.0	<50.0	61.1	<50.0	<50.0	<50.0	<50.0	5,430
PTC6B-2	<25.0	<25.0	67.7	<25.0	<25.0	<25.0	<25.0	5,540
PTC6C-1	<3.6	<3.6	25.0	6.9	<3.6	<3.6	44.1	>1,790
PTC6C-2	<10.0	<10.0	23.9	<10.0	<10.0	<10.0	34.5	2,840
PTC6D-1	<1.0	1.3	2.3	1.7	<1.0	<1.0	13.7	216
PTC6D-2	<1.0	1.6	2.1	1.6	<1.0	<1.0	13.1	208
PTC6E-1	<10.0	10.2	11.3	10.2	<10.0	<10.0	22.7	586
PTC7A-1	<10.0	<10.0	12.3	17.5	<10.0	<10.0	<10.0	>5,000
PTC7B-1	<25.0	<25.0	30.1	<25.0	<25.0	<25.0	<25.0	5,070
PTC7C-1	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	3.8	79.8
PTC7D-1	<0.5	1.1	0.6	1.9	<0.5	<0.5	10.2	67.2
PTC7D-2	<0.5	1.2	0.6	1.9	<0.5	<0.5	10.3	66.9
PTC8A-1	<2.5	3.8	32.7	10.2	2.5	<2.5	6.9	>1,250
PTC8B-2	<1.0	4.0	<1.0	12.5	<1.0	<1.0	9.6	62.9
PTC8C-2	<0.5	1.4	<0.5	3.1	0.8	<0.5	3.8	46.4
PTC8D-2	<1.7	2.6	2.1	6.9	<1.7	<1.7	5.7	633
PTC9B-1	<25.0	<25.0	60.4	<25.0	<25.0	<25.0	<25.0	8,390
PTC9C-1	<25.0	<25.0	51.9	<25.0	<25.0	<25.0	<25.0	7,260
PTC9C-1B	<25.0	<25.0	52.2	<25.0	<25.0	<25.0	<25.0	7,200
PTC9D-1	<25.0	<25.0	42.1	<25.0	<25.0	<25.0	<25.0	7,070
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	8,300
PTC9E-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	8,160
PTC9A-1	<50.0	<50.0	64.7	<50.0	<50.0	<50.0	<50.0	8,960
PTC10A-1	<3.6	6.7	7.9	16.6	<3.6	<3.6	9.4	1,060
PTC10B-1	<25.0	<25.0	58.8	<25.0	<25.0	<25.0	<25.0	4,450

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-chloro-methane (µg/L)	1,1,1-Trichloro-ethane (µg/L)	1,1-Dichloro-propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro-ethane (µg/L)	Trichloro-ethene (µg/L)	1,2-Dichloro-propane (µg/L)
PTC1A-1	<50.0	<50.0	<50.0	1,980	<50.0	<50.0	155	<50.0
PTC1B-1	<1.0	<1.0	<1.0	221	1.2	<1.0	86.1	<1.0
PTC1C-1	<50.0	<50.0	<50.0	6,030	<50.0	<50.0	91.1	<50.0
PTC2A-1	<25.0	<25.0	<25.0	3,030	<25.0	<25.0	66.3	<25.0
PTC2A-2	<10.0	<10.0	<10.0	3,020	<10.0	<10.0	62.1	<10.0
PTC2B-1	<0.5	<0.5	<0.5	25.4	<0.5	0.8	17.0	<0.5
PTC2B-2	<1.7	<1.7	<1.7	25.6	<1.7	<1.7	18.1	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	<0.5
PTC3A-1	<25.0	<25.0	<25.0	4,910	<25.0	<25.0	105	<25.0
PTC3A-2	<25.0	<25.0	<25.0	4,760	<25.0	<25.0	104	<25.0
PTC3B-1	<1.0	<1.0	<1.0	151	1.2	<1.0	272	<1.0
PTC3C-1	<50.0	<50.0	<50.0	5,450	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<50.0	<50.0	<50.0	9,990	<50.0	<50.0	88.3	<50.0
PTC4A-2	<50.0	<50.0	<50.0	10,200	<50.0	<50.0	105	<50.0
PTC4B-1	<50.0	<50.0	<50.0	11,100	<50.0	<50.0	80.2	<50.0
PTC4C-1	<50.0	<50.0	<50.0	12,900	<50.0	<50.0	62.6	<50.0
PTC5A-1	<10.0	<10.0	<10.0	2,600	<10.0	<10.0	119	<10.0
PTC5B-1	<50.0	<50.0	<50.0	3,470	<50.0	<50.0	50.5	<50.0
PTC5B-2	<10.0	<10.0	<10.0	3,660	<10.0	<10.0	52.8	<10.0
PTC5C-2	<1.0	<1.0	<1.0	>500	1.6	2.5	39.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	4,060	<50.0	<50.0	82.1	<50.0
PTC6A-2	<25.0	<25.0	<25.0	4,220	<25.0	<25.0	78.9	<25.0
PTC6B-1	<50.0	<50.0	<50.0	5,800	<50.0	<50.0	82.6	<50.0
PTC6B-2	<25.0	<25.0	<25.0	5,950	<25.0	<25.0	77.6	<25.0
PTC6C-1	<3.6	<3.6	<3.6	1,230	<3.6	4.4	228	<3.6
PTC6C-2	<10.0	<10.0	<10.0	1,030	<10.0	<10.0	196	<10.0
PTC6D-1	<1.0	<1.0	<1.0	34.9	<1.0	<1.0	40.6	<1.0
PTC6D-2	<1.0	<1.0	<1.0	33.2	<1.0	<1.0	38.6	<1.0
PTC6E-1	<10.0	<10.0	<10.0	197	<10.0	<10.0	239	<10.0
PTC7A-1	<10.0	<10.0	<10.0	22.0	B	<10.0	212	<10.0
PTC7B-1	<25.0	<25.0	<25.0	566	<25.0	<25.0	152	<25.0
PTC7C-1	<0.5	<0.5	<0.5	8.6	<0.5	<0.5	27.9	<0.5
PTC7D-1	<0.5	<0.5	<0.5	7.3	0.8	<0.5	28.4	<0.5
PTC7D-2	<0.5	<0.5	<0.5	7.4	0.8	<0.5	28.4	<0.5
PTC8A-1	<2.5	<2.5	<2.5	64.1	3.6	4.4	122	<2.5
PTC8B-2	<1.0	<1.0	<1.0	27.4	4.3	<1.0	342	<1.0
PTC8C-2	<0.5	<0.5	<0.5	51.7	2.1	<0.5	21.9	<0.5
PTC8D-2	<1.7	<1.7	<1.7	223	2.9	<1.7	54.1	<1.7
PTC9B-1	<25.0	<25.0	<25.0	5,580	<25.0	<25.0	71.3	<25.0
PTC9C-1	<25.0	<25.0	<25.0	4,930	<25.0	<25.0	68.0	<25.0
PTC9C-1B	<25.0	<25.0	<25.0	4,900	<25.0	<25.0	67.6	<25.0
PTC9D-1	<25.0	<25.0	<25.0	5,760	<25.0	<25.0	56.4	<25.0
PTC9E-1	<50.0	<50.0	<50.0	9,950	<50.0	<50.0	74.1	<50.0
PTC9E-1B	<50.0	<50.0	<50.0	9,760	<50.0	<50.0	61.7	<50.0
PTC9A-1	<50.0	<50.0	<50.0	2,280	<50.0	<50.0	88.8	<50.0
PTC10A-1	<3.6	<3.6	<3.6	151	<3.6	<3.6	152	<3.6
PTC10B-1	<25.0	<25.0	<25.0	5,250	<25.0	<25.0	135	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo-dichloro-methane (µg/L)	Dibromo-methane (µg/L)	cis-1,3-Dichloro-propene (µg/L)	Toluene (µg/L)	trans-1,3-dichloro-propene (µg/L)	1,1,2-Trichloro-ethane (µg/L)	Tetra-chloro-ethene (µg/L)	1,3-Dichloro-propane (µg/L)
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,900	<50.0
PTC1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	108	<1.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,250	<50.0
PTC2A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,420	<25.0
PTC2A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,400	<10.0
PTC2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	17.8	<0.5
PTC2B-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	20.2	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,650	<25.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,540	<25.0
PTC3B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	258	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	503	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,820	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,760	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,410	<50.0
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,190	<50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,030	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	778	<50.0
PTC5B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	600	<10.0
PTC5C-2	3.1	<1.0	<1.0	<1.0	<1.0	2.4	142	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,490	<50.0
PTC6A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,580	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,350	<50.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,410	<25.0
PTC6C-1	<3.6	<3.6	<3.6	<3.6	<3.6	3.9	418	<3.6
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	385	B <10.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	34.4	
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	31.4	
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	188	
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	13.3	1,800	<10.0
PTC7B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	917	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	20.4	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.1	<0.5
PTC7D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.7	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	3.5	525	<2.5
PTC8B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	190	<1.0
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	23.8	<0.5
PTC8D-2	<1.7	<1.7	<1.7	<1.7	<1.7	1.3	81.2	<1.7
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	777	H <25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	642	H <25.0
PTC9C-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	622	H <25.0
PTC9D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	428	H <25.0
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	572	<50.0
PTC9E-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	575	H <50.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	909	<50.0
PTC10A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,430	H <3.6
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,510	H <25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC2A-2	<10.0	<10.0	<10.0	11.8	<10.0	<10.0	<10.0	<10.0
PTC2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2B-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5B-2	<10.0	<10.0	<10.0	11.0	<10.0	<10.0	<10.0	<10.0
PTC5C-2	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6C-1	<3.6	<3.6	<3.6	4.0	<3.6	<3.6	<3.6	<3.6
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<50.0	<50.0	<50.0	24.6	<50.0	<50.0	<50.0	<50.0
PTC9E-1B	<50.0	<50.0	<50.0	21.5	<50.0	<50.0	<50.0	<50.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<3.6	<3.6	<3.6	4.3	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropylbenzene (µg/L)	Bromobenzene (µg/L)	1,1,2,2-Tetrachloroethane (µg/L)	n-Propylbenzene (µg/L)	Pentachloroethane (µg/L)	2-Chlorotoluene (µg/L)	1,2,3-Trichloropropane (µg/L)
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0
PTC1C-1	<50.0	<50.0	<50.0	63.1	<50.0	77.7	<50.0	<50.0
PTC2A-1	<25.0	<25.0	<25.0	25.1	<25.0	85.2	<25.0	<25.0
PTC2A-2	<10.0	<10.0	<10.0	25.2	<10.0	79.8	<10.0	<10.0
PTC2B-1	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5
PTC2B-2	<1.7	<1.7	<1.7	2.3	<1.7	<1.7	<1.7	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	35.9	<25.0	61.7	<25.0	<25.0
PTC3A-2	<25.0	<25.0	<25.0	38.8	<25.0	57.3	<25.0	<25.0
PTC3B-1	<1.0	<1.0	<1.0	3.3	<1.0	1.9	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	57.8	<50.0	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	120	<50.0	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	110	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	54.1	<50.0	117	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	55.1	<50.0	127	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	47.0	<10.0	54.0	<10.0	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5B-2	<10.0	<10.0	<10.0	37.0	<10.0	67.0	<10.0	<10.0
PTC5C-2	<1.0	<1.0	<1.0	21.1	<1.0	14.3	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	74.0	<50.0	<50.0
PTC6A-2	<25.0	<25.0	<25.0	<25.0	<25.0	82.6	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	75.6	<50.0	<50.0
PTC6B-2	<25.0	<25.0	<25.0	26.0	<25.0	86.2	<25.0	<25.0
PTC6C-1	<3.6	<3.6	<3.6	8.9	<3.6	8.6	<3.6	<3.6
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<10.0	<10.0	<10.0	49.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	<25.0	<25.0	<25.0	32.6	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	21.0	<2.5	3.2	<2.5	<2.5
PTC8B-2	<1.0	<1.0	<1.0	7.2	<1.0	1.4	<1.0	<1.0
PTC8C-2	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTC8D-2	<1.7	<1.7	<1.7	8.1	<1.7	2.1	<1.7	<1.7
PTC9B-1	<25.0	<25.0	<25.0	71.2	<25.0	65.6	L <25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	69.0	<25.0	61.1	L <25.0	<25.0
PTC9C-1B	<25.0	<25.0	<25.0	68.0	<25.0	55.7	L <25.0	<25.0
PTC9D-1	<25.0	<25.0	<25.0	63.8	<25.0	59.5	L <25.0	<25.0
PTC9E-1	<50.0	<50.0	<50.0	65.4	<50.0	74.9	<50.0	<50.0
PTC9E-1B	<50.0	<50.0	<50.0	69.3	<50.0	77.0	L <50.0	<50.0
PTC9A-1	<50.0	<50.0	<50.0	65.8	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<3.6	<3.6	<3.6	44.0	<3.6	8.1	L <3.6	<3.6
PTC10B-1	<25.0	<25.0	<25.0	62.2	<25.0	90.6	L <25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC1A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC1C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC2A-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2B-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5B-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6A-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6C-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC9B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9E-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC1A-1	<50.0	<50.0	33.3	<50.0	<50.0	<50.0	<50.0	<50.0
PTC1B-1	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC1C-1	<50.0	<50.0	387	<50.0	<50.0	<50.0	<50.0	<50.0
PTC2A-1	<25.0	<25.0	490	<25.0	<25.0	<25.0	<25.0	<25.0
PTC2A-2	<10.0	<10.0	551	<10.0	<10.0	<10.0	<10.0	<10.0
PTC2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC2B-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC2C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC3A-1	<25.0	<25.0	218	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3A-2	<25.0	<25.0	214	<25.0	<25.0	<25.0	<25.0	<25.0
PTC3B-1	<1.0	<1.0	5.2	<1.0	<1.0	<1.0	<1.0	<1.0
PTC3C-1	<50.0	<50.0	420	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-1	<50.0	<50.0	681	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4A-2	<50.0	<50.0	695	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4B-1	<50.0	<50.0	1,270	<50.0	<50.0	<50.0	<50.0	<50.0
PTC4C-1	<50.0	<50.0	1,850	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5B-1	<50.0	<50.0	617	<50.0	<50.0	<50.0	<50.0	<50.0
PTC5B-2	<10.0	<10.0	631	<10.0	<10.0	<10.0	<10.0	<10.0
PTC5C-2	<1.0	<1.0	62.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6A-1	<50.0	<50.0	253	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6A-2	<25.0	<25.0	280	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6B-1	<50.0	<50.0	489	<50.0	<50.0	<50.0	<50.0	<50.0
PTC6B-2	<25.0	<25.0	527	<25.0	<25.0	<25.0	<25.0	<25.0
PTC6C-1	<3.6	<3.6	5.3	<3.6	<3.6	<3.6	<3.6	<3.6
PTC6C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC6D-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6D-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC6E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC7B-1	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC7C-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC7D-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8A-1	<2.5	<2.5	7.1	<2.5	<2.5	<2.5	<2.5	<2.5
PTC8B-2	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC8C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC8D-2	<1.7	<1.7	2.2	<1.7	<1.7	<1.7	<1.7	<1.7
PTC9B-1	<25.0	<25.0	192	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1	<25.0	<25.0	179	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9C-1B	<25.0	<25.0	174	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9D-1	<25.0	<25.0	283	<25.0	<25.0	<25.0	<25.0	<25.0
PTC9E-1	<50.0	<50.0	579	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9E-1B	<50.0	<50.0	554	<50.0	<50.0	<50.0	<50.0	<50.0
PTC9A-1	<50.0	<50.0	45.4	<50.0	<50.0	<50.0	<50.0	<50.0
PTC10A-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC10B-1	<25.0	<25.0	477	<25.0	<25.0	<25.0	<25.0	<25.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the
detection limit; data qualifiers are given to the right of the associated data values; see bottom of
file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
PTC10B-1B	2	9/27/2005	1350	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10B-2	3	9/27/2005	1350	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-2	NR	9/26/2005	1445	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	NR	9/27/2005	845	<0.5	<0.5	1.1	<0.5	<0.5
PTC10E-1	NR	9/28/2005	1000	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	NR	9/28/2005	1015	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	NR	9/28/2005	1055	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	1	9/28/2005	1140	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-2	2	9/28/2005	1140	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	NR	9/28/2005	1245	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	NR	9/28/2005	1335	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	1	9/29/2005	850	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	2	9/29/2005	850	<50.0	L	<50.0	<50.0	<50.0
PTC11F-1B	3	9/29/2005	855	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	NR	9/29/2005	840	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1A	1	9/29/2005	1035	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12B-1B	2	9/29/2005	1035	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	1	9/29/2005	1110	<1.0	<1.0	10.0 H	<1.0	<1.0
PTC12C-2	2	9/29/2005	1110	<1.0	L	10.6	<1.0	<1.0
PTC12D-1	NR	9/29/2005	1150	<0.5	<0.5	10.2 H	<0.5	<0.5
PTC12E-1	NR	9/29/2005	1310	<0.5	<0.5	10.2 H	<0.5	<0.5
PTC12F-1	NR	9/29/2005	1405	<0.5	<0.5	3.1 H	<0.5	<0.5
PTC13A-1	NR	9/29/2005	835	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	NR	9/29/2005	850	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1A	1	9/29/2005	925	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13C-1B	2	9/29/2005	925	<3.6	L	<3.6	<3.6	<3.6
PTC13D-1	NR	9/29/2005	1000	<3.6	L	<3.6	<3.6	<3.6
PTZ1A-1	NR	9/28/2005	1305	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	1	9/27/2005	945	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	2	9/27/2005	945	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	3	9/27/2005	945	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	1	9/28/2005	1235	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1C-1B	2	9/28/2005	1240	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	NR	9/28/2005	1100	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	NR	9/27/2005	920	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-2	NR	9/26/2005	1405	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	NR	9/27/2005	915	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-2	NR	9/26/2005	1340	<0.5	<0.5	1.6	<0.5	<0.5
PTZ2D-1	NR	9/26/2005	1135	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2E-1	NR	9/26/2005	1445	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	1	9/29/2005	1105	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4A-2	2	9/29/2005	1105	<0.5	L	1.2	<0.5	<0.5
PTZ4B-1	1	9/29/2005	1135	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1B	2	9/29/2005	1135	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	1	9/29/2005	1215	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ4C-2	2	9/29/2005	1215	<10.0	L	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Trichloro- fluoro- methane (µg/L)	1,1-Dichloro- ethene (µg/L)	Methylene chloride (µg/L)	trans-1,2- Dichloro- ethene (µg/L)	1,1-Dichloro- ethane (µg/L)	2,2- Dichloro- propane (µg/L)	cis-1,2- Dichloro- ethene (µg/L)	Chloroform (µg/L)
PTC10B-1B	<25.0	<25.0	53.5	<25.0	<25.0	<25.0	<25.0	4,290
PTC10B-2	<25.0	<25.0	49.5	<25.0	<25.0	<25.0	<25.0	4,310
PTC10C-2	<1.7	2.3	4.8	5.1	1.2	<1.7	9.2	463
PTC10D-1	<0.5	0.7	1.5	1.8	0.6	<0.5	2.5	141
PTC10E-1	<10.0	<10.0	24.2	<10.0	<10.0	<10.0	<10.0	2,200
PTC11A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,460
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,740
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,630
PTC11C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,610
PTC11D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,540
PTC11E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,300
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	3,000
PTC11F-2	<50.0	L <50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2,970
PTC11F-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2,940
PTC12A-1	<10.0	<10.0	<10.0	13.3	<10.0	<10.0	109	2,490
PTC12B-1A	<3.6	8.9	5.0	20.9	<3.6	<3.6	305	1,100
PTC12B-1B	<3.6	8.6	5.5	21.8	<3.6	<3.6	311	1,140
PTC12C-1	<1.0	3.2	1.7	6.4	<1.0	<1.0	164	209
PTC12C-2	<1.0	L <3.2	1.7	6.4	<1.0	<1.0	169	214
PTC12D-1	<0.5	2.9	1.5	6.3	<0.5	<0.5	124	190
PTC12E-1	<0.5	3.0	0.8	6.3	<0.5	<0.5	128	165
PTC12F-1	<0.5	1.1	<0.5	4.7	0.9	<0.5	24.8	18.1
PTC13A-1	<10.0	<10.0	10.2	<10.0	<10.0	<10.0	<10.0	776
PTC13B-1	<10.0	<10.0	15.7	<10.0	<10.0	<10.0	11.1	939
PTC13C-1A	<3.6	4.7	11.6	6.5	<3.6	<3.6	7.6	1,040
PTC13C-1B	<3.6	L <5.2	12.4	6.7	<3.6	<3.6	8.6	1,080
PTC13D-1	<3.6	L <5.6	9.6	7.1	<3.6	<3.6	11.8	1,050
PTZ1A-1	<2.5	8.8	<2.5	20.5	2.8	<2.5	10.5	1,010
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	14.4	<10.0	<10.0	<10.0	<10.0	4,450
PTZ1C-1B	<10.0	<10.0	14.5	<10.0	<10.0	<10.0	<10.0	4,430
PTZ1D-1	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,460
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
PTZ2C-2	<0.5	1.7	<0.5	8.6	<0.5	<0.5	67.4	<0.5
PTZ2D-1	<3.6	4.6	9.9	<3.6	<3.6	<3.6	<3.6	824
PTZ2E-1	<2.5	<2.5	4.7	<2.5	<2.5	<2.5	<2.5	300
PTZ4A-1	<0.5	1.6	<0.5	4.8	<0.5	<0.5	70.6	14.5
PTZ4A-2	<0.5	L <1.8	<0.5	4.6	<0.5	<0.5	71.2	14.7
PTZ4B-1	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	22.7
PTZ4B-1B	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	23.3
PTZ4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
PTZ4C-2	<10.0	L <10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,880

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- chloro- methane (µg/L)	1,1,1- Trichloro- ethane (µg/L)	1,1-Dichloro- propene (µg/L)	Carbon tetrachloride (µg/L)	Benzene (µg/L)	1,2-Dichloro- ethane (µg/L)	Trichloro- ethene (µg/L)	1,2-Dichloro- propane (µg/L)
PTC10B-1B	<25.0	<25.0	<25.0	5,380	<25.0	<25.0	141	<25.0
PTC10B-2	<25.0	<25.0	<25.0	5,230	<25.0	<25.0	132	<25.0
PTC10C-2	<1.7	<1.7	<1.7	294	<1.7	<1.7	50.4	<1.7
PTC10D-1	<0.5	<0.5	<0.5	56.8	<0.5	<0.5	17.7	<0.5
PTC10E-1	<10.0	<10.0	<10.0	1,620	<10.0	<10.0	96.9	<10.0
PTC11A-1	<50.0	<50.0	<50.0	7,310	<50.0	<50.0	70.2	<50.0
PTC11B-1	<50.0	<50.0	<50.0	7,520	<50.0	<50.0	104	<50.0
PTC11C-1	<50.0	<50.0	<50.0	6,910	<50.0	<50.0	100	<50.0
PTC11C-2	<50.0	<50.0	<50.0	6,760	<50.0	<50.0	100	<50.0
PTC11D-1	<50.0	<50.0	<50.0	6,150	<50.0	<50.0	100	<50.0
PTC11E-1	<50.0	<50.0	<50.0	5,570	<50.0	<50.0	96.9	<50.0
PTC11F-1	<50.0	<50.0	<50.0	6,070	<50.0	<50.0	99.5	<50.0
PTC11F-2	<50.0	<50.0	<50.0	5,590	<50.0	<50.0	106	<50.0
PTC11F-1B	<50.0	<50.0	<50.0	5,860	<50.0	<50.0	103	<50.0
PTC12A-1	<10.0	<10.0	<10.0	215	<10.0	<10.0	349	<10.0
PTC12B-1A	<3.6	<3.6	<3.6	460	<3.6	<3.6	672	<3.6
PTC12B-1B	<3.6	<3.6	<3.6	455	<3.6	<3.6	674	<3.6
PTC12C-1	<1.0	<1.0	<1.0	17.4	<1.0	<1.0	296	<1.0
PTC12C-2	<1.0	<1.0	<1.0	16.4	<1.0	<1.0	304	<1.0
PTC12D-1	<0.5	<0.5	<0.5	12.7	<0.5	<0.5	>250	<0.5
PTC12E-1	<0.5	<0.5	<0.5	10.6	<0.5	<0.5	194	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26.8	<0.5
PTC13A-1	<10.0	<10.0	<10.0	1,990	<10.0	<10.0	65.2	<10.0
PTC13B-1	<10.0	<10.0	<10.0	1,320	<10.0	<10.0	167	<10.0
PTC13C-1A	<3.6	<3.6	<3.6	466	<3.6	<3.6	149	<3.6
PTC13C-1B	<3.6	<3.6	<3.6	462	<3.6	<3.6	149	<3.6
PTC13D-1	<3.6	<3.6	<3.6	83.9	<3.6	<3.6	160	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	5.5	2.7	208	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	3,810	<10.0	<10.0	55.6	<10.0
PTZ1C-1B	<10.0	<10.0	<10.0	3,730	<10.0	<10.0	49.4	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	361	<3.6	<3.6	7.7	<3.6
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5
PTZ2C-2	<0.5	<0.5	<0.5	<0.5	0.6	0.9	65.0	<0.5
PTZ2D-1	<3.6	<3.6	<3.6	1,190	<3.6	<3.6	7.6	<3.6
PTZ2E-1	<2.5	<2.5	<2.5	366	<2.5	<2.5	2.9	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	10.5	<0.5	<0.5	49.7	<0.5
PTZ4A-2	<0.5	<0.5	<0.5	9.7	0.6	<0.5	49.7	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	10.3	<0.5	<0.5	2.7	<0.5
PTZ4B-1B	<0.5	<0.5	<0.5	10.6	<0.5	<0.5	2.7	<0.5
PTZ4C-1	<10.0	<10.0	<10.0	2,790	<10.0	<10.0	19.6	<10.0
PTZ4C-2	<10.0	<10.0	<10.0	2,680	<10.0	<10.0	20.2	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromo- dichloro- methane (µg/L)	Dibromo- methane (µg/L)	cis-1,3- Dichloro- propene (µg/L)	Toluene (µg/L)	trans-1,3- dichloro- propene (µg/L)	1,1,2- Trichloro- ethane (µg/L)	Tetra- chloro- ethene (µg/L)	1,3-Dichloro- propane (µg/L)
PTC10B-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,480	H <25.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	1,460	<25.0
PTC10C-2	<1.7	<1.7	<1.7	<1.7	<1.7	1.3	122	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34.3	H <0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	587	H <10.0
PTC11A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	711	H <50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,010	H <50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,160	H <50.0
PTC11C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	1,050	<50.0
PTC11D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	970	H <50.0
PTC11E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	783	H <50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	940	H <50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	786	<50.0
PTC11F-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	933	H <50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	930	<10.0
PTC12B-1A	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,250	<3.6
PTC12B-1B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	1,240	<3.6
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	53.9	<1.0
PTC12C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	52.2	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	61.3	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	48.4	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.9	<0.5
PTC13A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	568	<10.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,260	<10.0
PTC13C-1A	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	854	<3.6
PTC13C-1B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	853	<3.6
PTC13D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	953	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	2.2	605	H <2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	293	H <10.0
PTZ1C-1B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	277	H <10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	18.3	<3.6
PTZ2A-2	<0.5	>250	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
PTZ2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	>250	<0.5
PTZ2D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	97.6	<3.6
PTZ2E-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	27.3	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.5	H <0.5
PTZ4A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.9	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.3	H <0.5
PTZ4B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.2	H <0.5
PTZ4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	135	<10.0
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	158	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Dibromo- chloro- methane (µg/L)	1,2-Dibromo- ethane (µg/L)	Chloro- benzene (µg/L)	1,1,1,2- Tetrachloro- ethane (µg/L)	Ethyl benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Styrene (µg/L)
PTC10B-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1A	<3.6	<3.6	<3.6	5.0	<3.6	<3.6	<3.6	<3.6
PTC12B-1B	<3.6	<3.6	<3.6	4.8	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1A	<3.6	<3.6	<3.6	4.5	<3.6	<3.6	<3.6	<3.6
PTC13C-1B	<3.6	<3.6	<3.6	4.9	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	<3.6	4.4	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1C-1B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2E-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	Bromoform (µg/L)	Isopropyl-benzene (µg/L)	Bromo-benzene (µg/L)	1,1,2,2-Tetrachloro-ethane (µg/L)	n-Propyl-benzene (µg/L)	Penta-chloro-ethane (µg/L)	2-Chloro-toluene (µg/L)	1,2,3-Trichloro-propane (µg/L)
PTC10B-1B	<25.0	<25.0	<25.0	<25.0	<25.0	89.9	L	<25.0
PTC10B-2	<25.0	<25.0	<25.0	58.2	<25.0	82.6		<25.0
PTC10C-2	<1.7	<1.7	<1.7	12.6	<1.7	5.3		<1.7
PTC10D-1	<0.5	<0.5	<0.5	3.0	<0.5	0.8	L	<0.5
PTC10E-1	<10.0	<10.0	<10.0	45.9	<10.0	31.8	L	<10.0
PTC11A-1	<50.0	<50.0	<50.0	68.6	<50.0	89.7	L	<50.0
PTC11B-1	<50.0	<50.0	<50.0	87.2	<50.0	98.1	L	<50.0
PTC11C-1	<50.0	<50.0	<50.0	87.4	<50.0	99.8	L	<50.0
PTC11C-2	<50.0	<50.0	<50.0	79.1	<50.0	104		<50.0
PTC11D-1	<50.0	<50.0	<50.0	92.8	<50.0	85.6	L	<50.0
PTC11E-1	<50.0	<50.0	<50.0	81.7	<50.0	74.5	L	<50.0
PTC11F-1	<50.0	<50.0	<50.0	86.2	<50.0	80.8	L	<50.0
PTC11F-2	<50.0	<50.0	<50.0	93.5	<50.0	65.9	L	<50.0
PTC11F-1B	<50.0	<50.0	<50.0	83.1	<50.0	72.9	L	<50.0
PTC12A-1	<10.0	<10.0	<10.0	69.8	<10.0	16.3		<10.0
PTC12B-1A	<3.6	<3.6	<3.6	43.5	<3.6	23.1		<3.6
PTC12B-1B	<3.6	<3.6	<3.6	45.8	<3.6	22.8		<3.6
PTC12C-1	<1.0	<1.0	<1.0	3.3	<1.0	<1.0		<1.0
PTC12C-2	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	L	<1.0
PTC12D-1	<0.5	<0.5	<0.5	1.9	<0.5	<0.5		<0.5
PTC12E-1	<0.5	<0.5	<0.5	2.0	<0.5	<0.5		<0.5
PTC12F-1	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		<0.5
PTC13A-1	<10.0	<10.0	<10.0	20.4	<10.0	66.0		<10.0
PTC13B-1	<10.0	<10.0	<10.0	49.0	<10.0	45.9		<10.0
PTC13C-1A	<3.6	<3.6	<3.6	37.0	<3.6	21.4		<3.6
PTC13C-1B	<3.6	<3.6	<3.6	39.4	<3.6	21.2	L	<3.6
PTC13D-1	<3.6	<3.6	<3.6	50.6	<3.6	21.8	L	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	20.4	<2.5	<2.5	L	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ1C-1	<10.0	<10.0	<10.0	45.9	<10.0	32.4	L	<10.0
PTZ1C-1B	<10.0	<10.0	<10.0	48.1	<10.0	31.3	L	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	L	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	6.1	<3.6	5.0		<3.6
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ2C-2	<0.5	<0.5	<0.5	5.9	<0.5	<0.5		<0.5
PTZ2D-1	<3.6	<3.6	<3.6	5.2	<3.6	10.9		<3.6
PTZ2E-1	<2.5	<2.5	<2.5	<2.5	<2.5	3.9		<2.5
PTZ4A-1	<0.5	<0.5	<0.5	0.7	<0.5	<0.5		<0.5
PTZ4A-2	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	L	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ4B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
PTZ4C-1	<10.0	<10.0	<10.0	21.0	<10.0	21.0	L	<10.0
PTZ4C-2	<10.0	<10.0	<10.0	22.1	<10.0	21.5	L	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	4-Chloro- toluene (µg/L)	1,3,5- Trimethyl- benzene (µg/L)	tert- Butyl- benzene (µg/L)	1,2,4- Trimethyl- benzene (µg/L)	sec Butyl- benzene (µg/L)	1,3-Dichloro- benzene (µg/L)	p-Isopropyl- toluene (µg/L)	1,4-Dichloro- benzene (µg/L)
PTC10B-1B	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10B-2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-2	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1B	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1A	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12B-1B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1A	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13C-1B	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1C-1B	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2E-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ4C-2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from
seep 3-4W reactive mat pilot test area, West Branch Canal Creek,
Aberdeen Proving Ground, Maryland, February -September 2005--Continued

Sample name	n-Butyl- benzene (µg/L)	1,2-Dichloro- benzene (µg/L)	Hexa- chloro- ethane (µg/L)	1,2-Dibromo- 3-chloro- propane (µg/L)	1,2,4- Trichloro- benzene (µg/L)	Hexachloro- butadiene (µg/L)	Naph- thalene (µg/L)	1,2,3- Trichloro- benzene (µg/L)
PTC10B-1B	<25.0	<25.0	494	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10B-2	<25.0	<25.0	496	<25.0	<25.0	<25.0	<25.0	<25.0
PTC10C-2	<1.7	<1.7	3.5	<1.7	<1.7	<1.7	<1.7	<1.7
PTC10D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC10E-1	<10.0	<10.0	209	<10.0	<10.0	<10.0	<10.0	<10.0
PTC11A-1	<50.0	<50.0	1,290	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11B-1	<50.0	<50.0	1,510	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-1	<50.0	<50.0	1,510	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11C-2	<50.0	<50.0	1,530	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11D-1	<50.0	<50.0	1,210	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11E-1	<50.0	<50.0	1,320	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1	<50.0	<50.0	1,640	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-2	<50.0	<50.0	1,530	<50.0	<50.0	<50.0	<50.0	<50.0
PTC11F-1B	<50.0	<50.0	1,570	<50.0	<50.0	<50.0	<50.0	<50.0
PTC12A-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTC12B-1A	<3.6	<3.6	20.8	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12B-1B	<3.6	<3.6	19.9	<3.6	<3.6	<3.6	<3.6	<3.6
PTC12C-1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12C-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
PTC12D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12E-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC12F-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTC13A-1	<10.0	<10.0	899	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13B-1	<10.0	<10.0	627	<10.0	<10.0	<10.0	<10.0	<10.0
PTC13C-1A	<3.6	<3.6	52.9	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13C-1B	<3.6	<3.6	51.3	<3.6	<3.6	<3.6	<3.6	<3.6
PTC13D-1	<3.6	<3.6	31.9	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ1A-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ1B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1C-1	<10.0	<10.0	171	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1C-1B	<10.0	<10.0	168	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ1D-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ1E-1	<3.6	<3.6	7.7	<3.6	<3.6	<3.6	<3.6	<3.6
PTZ2A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2C-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ2D-1	<3.6	<3.6	64.7	<3.6	<3.6	<3.6	6.7	4.1
PTZ2E-1	<2.5	<2.5	21.3	<2.5	<2.5	<2.5	<2.5	<2.5
PTZ4A-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4A-2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4B-1B	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PTZ4C-1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
PTZ4C-2	<10.0	<10.0	144	<10.0	<10.0	<10.0	<10.0	<10.0

Appendix 3B. Organic constituents from groundwater and surface-water samples from seep 3-4W reactive mat pilot test area, West Branch Canal Creek, Aberdeen Proving Ground, Maryland, February -September 2005

[µg/L, micrograms per liter; <, less than; > greater than; BOLD, compound detected above the detection limit; data qualifiers are given to the right of the associated data values; see bottom of file for list of qualifiers and explanations of sample names.]

Sample name	Repli- cate	Collection date	Collection time	Dichloro- difluoro- methane (µg/L)	Chloro- methane (µg/L)	Vinyl chloride (µg/L)	Bromo- methane (µg/L)	Chloro- ethane (µg/L)
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"µg/L" represents concentration units of micrograms per liter.

">" indicates a value greater than the value shown

"<" indicates a value less than the value shown

"B" code indicates the compound was detected in an associated field or trip blank. Concentrations may be biased high based on the analyte concentration in the blank.

"H" code indicates possible positive bias based on an unacceptably high response for this compound in one or more calibration checks for this batch of samples.

"L" code indicates possible negative bias based on an unacceptably low response for this compound in one or more calibration checks for this batch of samples.

"V" code indicates possible positive bias due to suspected laboratory contamination.

"NR" indicates a sample with no replicate analysis

"MA" in replicate number indicates a multiple analysis from the same sample vial.

"PTB" samples are groundwaterwater samples collected from in-mat passive diffusion samplers

"PTC" samples are groundwaterwater samples collected from multi-level piezometers

"PTN" samples are groundwaterwater samples collected from below-mat mini sand-pack screens

"PTV" samples are West Branch Canal Creek surface-water samples collected with an automated refrigerated VOC sampler

"PTZ" samples are groundwaterwater samples collected from individual piezometers