Table A-3
Groundwater Data Summary - VOC Analyses
2009 Collection Well Sampling Summary
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	CW-1 6/15/2009	CW-1 12/16/2009	CW-1A 6/15/2009	CW-1A 12/16/2009	CW-2 6/15/2009	CW-2 2/3/2010	CW-3 6/15/2009	CW-3 12/16/2009	CW-4 6/15/2009	CW-4 12/16/2009	CW-5 6/15/2009	CW-5 12/16/2009	CW-6 6/16/2009
Volatile Organic Compound																	
1,1,1,2-Tetrachloroethane	70	70		0.52	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,1,1-Trichloroethane	200	200	200	9100	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,1,2-Trichloroethane	5	5	5	0.24	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,1-Dichloroethane	27	110		2.4	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,1-Dichloroethene	7	7	7	340	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,2-Dichloroethane	5	5	5	0.15	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,2-Dichloropropane	5	5	5	0.39	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
1,4-Dioxane	5.6	24		6.1	400 U	400 U	400 U	200 U	200 U	200 U	200 U	200 U	600 U	400 U	200 U	200 U	400 U
2-Butanone	4000	4000		7100	20 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	30 U	20 U	10 U	10 U	20 U
2-Hexanone					20 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	30 U	20 U	10 U	10 U	20 U
4-Methyl-2-Pentanone	190	410		2000	20 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	30 U	20 U	10 U	10 U	20 U
Acetone	3700	10000		22000	20 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	30 U	20 U	10 U	10 U	20 U
Acrylonitrile	0.63	2.7		0.045	40 U	40 U	40 U	20 U	20 U	20 U	20 U	20 U	60 U	40 U	20 U	20 U	40 U
Benzene	5	5	5	0.41	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Bromochloromethane	90	90			2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Bromodichloromethane	100	100		0.12	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Bromoform	80	80		8.5	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Bromomethane	10	10		8.7	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Carbon Disulfide	1900	4100		1000	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Carbon Tetrachloride	5	5	5	0.2	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Chlorobenzene	100	100	100	91	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Chlorodibromomethane	80	80		0.15	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Chloroethane	230	900		21000	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Chloroform	80	80		0.19	2 U	2 U	2 U	0.19 J	1 U	1 U	1 U	1 U	3 U	2 U	0.22 J	1 U	2 U
Chloromethane	30	30		190	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
cis-1,2-Dichloroethene	70	70	70	370	12	9.4	0.83 J	0.5 J	3.8	5	27	28	28	27	3.6	1.5	30
cis-1,3-Dichloropropene	6.6	26		0.43	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Ethylbenzene	700	700	700	1.5	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Methyl tert-butyl ether	20	20		12	2 U	2 U	2 U	1 U	1 U	0.22 J	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Methylene chloride	5	5		4.8	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	0.72 J B
Styrene	100	100	100	1600	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Tetrachloroethene	5	5	5	0.11	2 U	2 U	0.75 J	0.57 J	0.46 J	0.44 J	1.4	2.1	5.8	4.9	3.2	4	64
Toluene	1000	1000	1000	2300	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
trans-1,2-Dichloroethene	100	100	100	110	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
trans-1,3-Dichloropropene	6.6	26		0.43	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Trichloroethene	5	5	5	1.7	66	41	51	33	19	26	22	24	72	58	3.8	2.7	18
Vinyl Chloride	2	2	2	0.016	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	3 U	2 U	1 U	1 U	2 U
Xylenes (Total)	10000	10000	10000	200	6 U	6 U	6 U	3 U	3 U	3 U	3 U	3 U	9 U	6 U	3 U	3 U	6 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference.

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Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	CW-6 1/13/2010	CW-7 6/16/2009	CW-7 12/16/2009	CW-7A 6/16/2009	CW-7A 12/16/2009	CW-8 6/16/2009	CW-8 1/13/2010	CW-9 6/15/2009	CW-9 12/16/2009	CW-13 6/15/2009	CW-13 12/16/2009	CW-15A 6/15/2009
Volatile Organic Compound																
1,1,1,2-Tetrachloroethane	70	70		0.52	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,1,1-Trichloroethane	200	200	200	9100	1 U	1 U	1 U	10 U	10 U	11	20	66	31	14 J	10 J	6300
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,1,2-Trichloroethane	5	5	5	0.24	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,1-Dichloroethane	27	110		2.4	1 U	1 U	1 U	10 U	10 U	2.9 J	20 U	6.9 J	25 U	25 U	25 U	110 J
1,1-Dichloroethene	7	7	7	340	1 U	1 U	1 U	10 U	10 U	7.9 J	16 J	16 J	8.3 J	12 J	8.6 J	1500
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,2-Dichloroethane	5	5	5	0.15	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,2-Dichloropropane	5	5	5	0.39	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
1,4-Dioxane	5.6	24		6.1	200 U	200 U	200 U	2000 U	2000 U	2000 U	4000 U	5000 U	5000 U	5000 U	5000 U	50000 U
2-Butanone	4000	4000		7100	10 U	10 U	10 U	100 U	100 U	100 U	200 U	250 U	250 U	250 U	250 U	2500 U
2-Hexanone					10 U	10 U	10 U	100 U	100 U	100 U	200 U	250 U	250 U	250 U	250 U	2500 U
4-Methyl-2-Pentanone	190	410		2000	10 U	10 U	10 U	100 U	100 U	100 U	200 U	250 U	250 U	250 U	250 U	2500 U
Acetone	3700	10000		22000	3.2 J	10 U	10 U	100 U	100 U	100 U	200 U	250 U	250 U	250 U	250 U	2500 U
Acrylonitrile	0.63	2.7		0.045	20 U	20 U	20 U	200 U	200 U	200 U	400 U	500 U	500 U	500 U	500 U	5000 U
Benzene	5	5	5	0.41	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Bromochloromethane	90	90			1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Bromodichloromethane	100	100		0.12	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Bromoform	80	80		8.5	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Bromomethane	10	10		8.7	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Carbon Disulfide	1900	4100		1000	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Carbon Tetrachloride	5	5	5	0.2	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Chlorobenzene	100	100	100	91	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Chlorodibromomethane	80	80		0.15	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Chloroethane	230	900		21000	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Chloroform	80	80		0.19	1 U	0.67 J	1	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Chloromethane	30	30		190	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
cis-1,2-Dichloroethene	70	70	70	370	19	0.29 J	0.26 J	10 U	10 U	95	170	94	57	500	430	5600
cis-1,3-Dichloropropene	6.6	26		0.43	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Ethylbenzene	700	700	700	1.5	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Methyl tert-butyl ether	20	20		12	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Methylene chloride	5	5		4.8	1 U	1 U	1 U	5.5 J B	10 U	4.5 J B	20 U	11 J	25 U	8.8 J	25 U	250 U
Styrene	100	100	100	1600	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Tetrachloroethene	5	5	5	0.11	32	0.19 J	1 U	3.6 J	3.8 J	21	36	950	540	220	160	1600
Toluene	1000	1000	1000	2300	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
trans-1,2-Dichloroethene	100	100	100	110	0.2 J	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
trans-1,3-Dichloropropene	6.6	26		0.43	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	25 U	25 U	250 U
Trichloroethene	5	5	5	1.7	7.9	7.4	7.6	180	190	260	540	560	340	600	420	4800
Vinyl Chloride	2	2	2	0.016	1 U	1 U	1 U	10 U	10 U	10 U	20 U	25 U	25 U	16 J	12 J	250 U
Xylenes (Total)	10000	10000	10000	200	3 U	3 U	3 U	30 U	30 U	30 U	60 U	75 U	75 U	75 U	75 U	750 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference.

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2009 Collection Well Sampling Summary
Former York Naval Ordnance Plant - York, PA

Location/ID Sample Date Parameter	MSC Used Aquifer R (ug/L)	MSC Used Aquifer NR (ug/L)	Federal MCL (ug/L)	EPA RSL Tap Water (ug/L)	CW-15A 12/16/2009	CW-17 6/15/2009	CW-17 2/3/2010
Volatile Organic Compound							
1,1,1,2-Tetrachloroethane	70	70		0.52	250 U	10 U	10 U
1,1,1-Trichloroethane	200	200	200	9100	3700	11	13
1,1,2,2-Tetrachloroethane	0.3	0.3		0.067	250 U	10 U	10 U
1,1,2-Trichloroethane	5	5	5	0.24	250 U	10 U	10 U
1,1-Dichloroethane	27	110		2.4	81 J	3.2 J	6.3 J
1,1-Dichloroethene	7	7	7	340	890	10 U	8.8 J
1,2-Dibromoethane	0.05	0.05	0.05	0.0065	250 U	10 U	10 U
1,2-Dichloroethane	5	5	5	0.15	250 U	10 U	10 U
1,2-Dichloropropane	5	5	5	0.39	250 U	10 U	10 U
1,4-Dioxane	5.6	24		6.1	50000 U	2000 U	2000 U
2-Butanone	4000	4000		7100	2500 U	100 U	100 U
2-Hexanone					2500 U	100 U	100 U
4-Methyl-2-Pentanone	190	410		2000	2500 U	100 U	100 U
Acetone	3700	10000		22000	2500 U	100 U	100 U
Acrylonitrile	0.63	2.7		0.045	5000 U	200 U	200 U
Benzene	5	5	5	0.41	250 U	10 U	10 U
Bromochloromethane	90	90			250 U	10 U	10 U
Bromodichloromethane	100	100		0.12	250 U	10 U	10 U
Bromoform	80	80		8.5	250 U	10 U	10 U
Bromomethane	10	10		8.7	250 U	10 U	10 U
Carbon Disulfide	1900	4100		1000	250 U	10 U	10 U
Carbon Tetrachloride	5	5	5	0.2	250 U	10 U	10 U
Chlorobenzene	100	100	100	91	250 U	10 U	10 U
Chlorodibromomethane	80	80		0.15	250 U	10 U	10 U
Chloroethane	230	900		21000	250 U	10 U	10 U
Chloroform	80	80		0.19	250 U	10 U	10 U
Chloromethane	30	30		190	250 U	10 U	10 U
cis-1,2-Dichloroethene	70	70	70	370	4300	51	97
cis-1,3-Dichloropropene	6.6	26		0.43	250 U	10 U	10 U
Ethylbenzene	700	700	700	1.5	250 U	10 U	10 U
Methyl tert-butyl ether	20	20		12	250 U	10 U	10 U
Methylene chloride	5	5		4.8	250 U	3.8 J B	10 U
Styrene	100	100	100	1600	250 U	10 U	10 U
Tetrachloroethene	5	5	5	0.11	950	41	37
Toluene	1000	1000	1000	2300	250 U	10 U	10 U
trans-1,2-Dichloroethene	100	100	100	110	250 U	10 U	10 U
trans-1,3-Dichloropropene	6.6	26		0.43	250 U	10 U	10 U
Trichloroethene	5	5	5	1.7	3000	110	180
Vinyl Chloride	2	2	2	0.016	250 U	10 U	10 U
Xylenes (Total)	10000	10000	10000	200	750 U	30 U	30 U

Blank results = analyte not analyzed. U = Not detected. J = Organics; estimated. Inorganics; blank contamination. B = Organics; blank contamination. Inorganics; estimated. E = Inorganics: matrix interference.