

# HW-64

## EPA Validated Data Summary Report

### Dimock Residential Sampling

Sample Date: 5/22/2012

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Anionic Surfactants	0.01 U mg/L					
HW64-P	Anionic Surfactants	0.01 U mg/L					
HW64	E. coli	8.00 J cfu/100mL					
HW64-P	E. coli	1.00 UJ cfu/100mL					
HW64	Heterotropic Plate Count	300.00 R cfu/mL					
HW64-P	Heterotropic Plate Count	1,100.00 R cfu/mL					
HW64	Total Coliform Bacteria	<b>200.00</b> J cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW64-P	Total Coliform Bacteria	1.00 UJ cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW64	2-Butoxyethanol	10.00 U ug/L					
HW64-P	2-Butoxyethanol	10.00 U ug/L					
HW64	2-Methoxyethanol	10.00 U ug/L	78.00 ug/L				
HW64-P	2-Methoxyethanol	10.00 U ug/L	78.00 ug/L				
HW64	Diethylene Glycol	5.00 U ug/L	8,000.00 ug/L				
HW64-P	Diethylene Glycol	5.00 U ug/L	8,000.00 ug/L				
HW64	Ethylene glycol	5,000.00 UJ ug/L	31,000.00 ug/L				
HW64-P	Ethylene glycol	5,000.00 UJ ug/L	31,000.00 ug/L				
HW64	Propylene glycol	5,000.00 UJ ug/L					
HW64-P	Propylene glycol	5,000.00 UJ ug/L					
HW64	Tetraethylene glycol	5.00 U ug/L	8,000.00 ug/L				
HW64-P	Tetraethylene glycol	5.00 U ug/L	8,000.00 ug/L				
HW64	Triethylene glycol	25.00 U ug/L	8,000.00 ug/L				
HW64-P	Triethylene glycol	25.00 U ug/L	8,000.00 ug/L				
HW64	Bromide	0.50 U mg/L					
HW64-P	Bromide	0.50 U mg/L					

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Chloride	1.32	mg/L			250.00 mg/L		250.00 mg/L
HW64-P	Chloride	1.32	mg/L			250.00 mg/L		250.00 mg/L
HW64	Fluoride	0.10 U	mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW64-P	Fluoride	0.10 U	mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW64	Sulfate	8.03	mg/L			250.00 mg/L		250.00 mg/L
HW64-P	Sulfate	8.04	mg/L			250.00 mg/L		250.00 mg/L
HW64	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW64-F	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW64-P	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW64-PF	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW64	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW64-F	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW64-P	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW64-PF	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW64	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW64-F	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW64-P	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW64-PF	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW64	Barium	30.80	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW64-F	Barium	30.70	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW64-P	Barium	30.70	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW64-PF	Barium	30.20	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW64	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW64-F	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW64-P	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW64-PF	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW64	Boron	50.00 U	ug/L	3,100.00 ug/L				
HW64-F	Boron	50.00 U	ug/L	3,100.00 ug/L				
HW64-P	Boron	50.00 U	ug/L	3,100.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-PF	Boron	50.00	U ug/L	3,100.00 ug/L				
HW64	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW64-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW64-P	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW64-PF	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW64	Calcium	8,140.00	ug/L					
HW64-F	Calcium	8,210.00	ug/L					
HW64-P	Calcium	8,180.00	ug/L					
HW64-PF	Calcium	8,210.00	ug/L					
HW64	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW64-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW64-P	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW64-PF	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW64	Cobalt	1.00	U ug/L	4.70 ug/L				
HW64-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW64-P	Cobalt	1.00	U ug/L	4.70 ug/L				
HW64-PF	Cobalt	1.00	U ug/L	4.70 ug/L				
HW64	Copper	12.80	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW64-F	Copper	10.70	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW64-P	Copper	12.60	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW64-PF	Copper	12.10	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW64	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW64-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW64-P	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW64-PF	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW64	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW64-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW64-P	Lead	1.40	ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW64-PF	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Lithium	25.00	U ug/L	31.00 ug/L				
HW64-F	Lithium	25.00	U ug/L	31.00 ug/L				
HW64-P	Lithium	25.00	U ug/L	31.00 ug/L				
HW64-PF	Lithium	25.00	U ug/L	31.00 ug/L				
HW64	Magnesium	1,450.00	ug/L					
HW64-F	Magnesium	1,460.00	ug/L					
HW64-P	Magnesium	1,460.00	ug/L					
HW64-PF	Magnesium	1,450.00	ug/L					
HW64	Manganese	1.30	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW64-F	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW64-P	Manganese	1.60	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW64-PF	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW64	Nickel	1.00	U ug/L	300.00 ug/L				
HW64-F	Nickel	1.00	U ug/L	300.00 ug/L				
HW64-P	Nickel	1.00	U ug/L	300.00 ug/L				
HW64-PF	Nickel	1.00	U ug/L	300.00 ug/L				
HW64	Potassium	2,000.00	U ug/L					
HW64-F	Potassium	2,000.00	U ug/L					
HW64-P	Potassium	2,000.00	U ug/L					
HW64-PF	Potassium	2,000.00	U ug/L					
HW64	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64-F	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64-P	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64-PF	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64	Sodium	1,560.00	ug/L	20,000.00 ug/L				
HW64-F	Sodium	1,580.00	ug/L	20,000.00 ug/L				
HW64-P	Sodium	1,570.00	ug/L	20,000.00 ug/L				
HW64-PF	Sodium	1,580.00	ug/L	20,000.00 ug/L				
HW64	Strontium	200.00	U ug/L	9,300.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-F	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW64-P	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW64-PF	Strontium	200.00	U ug/L	9,300.00 ug/L				
HW64	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW64-F	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW64-P	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW64-PF	Thallium	1.00	U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW64	Tin	200.00	U ug/L	9,300.00 ug/L				
HW64-F	Tin	200.00	U ug/L	9,300.00 ug/L				
HW64-P	Tin	200.00	U ug/L	9,300.00 ug/L				
HW64-PF	Tin	200.00	U ug/L	9,300.00 ug/L				
HW64	Titanium	200.00	U ug/L					
HW64-F	Titanium	200.00	U ug/L					
HW64-P	Titanium	200.00	U ug/L					
HW64-PF	Titanium	200.00	U ug/L					
HW64	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW64-F	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW64-P	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW64-PF	Uranium	1.00	U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW64	Vanadium	5.00	U ug/L	78.00 ug/L				
HW64-F	Vanadium	5.00	U ug/L	78.00 ug/L				
HW64-P	Vanadium	5.00	U ug/L	78.00 ug/L				
HW64-PF	Vanadium	5.00	U ug/L	78.00 ug/L				
HW64	Zinc	6.40	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW64-F	Zinc	3.80	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW64-P	Zinc	6.00	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW64-PF	Zinc	6.10	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW64	Total Dissolved Solids	41.00	J mg/L			500.00 mg/L		500.00 mg/L
HW64-P	Total Dissolved Solids	45.00	mg/L			500.00 mg/L		500.00 mg/L

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Total Suspended Solids	10.00 U mg/L					
HW64-P	Total Suspended Solids	10.00 U mg/L					
HW64	1-Methylnaphthalene	4.76 U ug/L	97.00 ug/L				
HW64-P	1-Methylnaphthalene	4.76 U ug/L	97.00 ug/L				
HW64	Acenaphthene	4.76 U ug/L	400.00 ug/L				
HW64-P	Acenaphthene	4.76 U ug/L	400.00 ug/L				
HW64	Acenaphthylene	4.76 U ug/L					
HW64-P	Acenaphthylene	4.76 U ug/L					
HW64	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW64-P	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW64	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW64-P	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW64	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW64-P	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW64	Benzaldehyde	4.76 U ug/L	1,500.00 ug/L				
HW64-P	Benzaldehyde	4.76 U ug/L	1,500.00 ug/L				
HW64	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW64-P	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW64	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW64-P	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW64	Biphenyl	4.76 U ug/L					
HW64-P	Biphenyl	4.76 U ug/L					
HW64	Bromophenyl-4 Phenyl Ether	4.76 U ug/L					
HW64-P	Bromophenyl-4 Phenyl Ether	4.76 U ug/L					
HW64	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW64-P	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW64	Caprolactam	4.76 U ug/L	7,700.00 ug/L				
HW64-P	Caprolactam	4.76 U ug/L	7,700.00 ug/L				
HW64	Carbazole	4.76 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-P	Carbazole	4.76 U ug/L					
HW64	Chlorobenzenamine-4	4.76 U ug/L	3.20 ug/L				
HW64-P	Chlorobenzenamine-4	4.76 U ug/L	3.20 ug/L				
HW64	Chloronaphthalene-2	4.76 U ug/L	550.00 ug/L				
HW64-P	Chloronaphthalene-2	4.76 U ug/L	550.00 ug/L				
HW64	Chlorophenol-2	4.76 U ug/L	71.00 ug/L				
HW64-P	Chlorophenol-2	4.76 U ug/L	71.00 ug/L				
HW64	Chlorophenyl-4 phenyl ether	4.76 U ug/L					
HW64-P	Chlorophenyl-4 phenyl ether	4.76 U ug/L					
HW64	Chrysene	4.76 U ug/L	290.00 ug/L				
HW64-P	Chrysene	4.76 U ug/L	290.00 ug/L				
HW64	Cresol, parachloro meta-	4.76 U ug/L					
HW64-P	Cresol, parachloro meta-	4.76 U ug/L					
HW64	Cresol-4,6-dinitro-ortho	38.10 U ug/L					
HW64-P	Cresol-4,6-dinitro-ortho	38.10 U ug/L					
HW64	Cresol-o	4.76 U ug/L	720.00 ug/L				
HW64-P	Cresol-o	4.76 U ug/L	720.00 ug/L				
HW64	Cresol-p	4.76 U ug/L	72.00 ug/L				
HW64-P	Cresol-p	4.76 U ug/L	72.00 ug/L				
HW64	Dibenz(a,h)anthracene	4.76 U ug/L	0.29 ug/L				
HW64-P	Dibenz(a,h)anthracene	4.76 U ug/L	0.29 ug/L				
HW64	Dibenzofuran	4.76 U ug/L					
HW64-P	Dibenzofuran	4.76 U ug/L					
HW64	Dichlorobenzidine-3,3'	4.76 U ug/L	11.00 ug/L				
HW64-P	Dichlorobenzidine-3,3'	4.76 U ug/L	11.00 ug/L				
HW64	Dichlorophenol-2,4	4.76 U ug/L	35.00 ug/L				
HW64-P	Dichlorophenol-2,4	4.76 U ug/L	35.00 ug/L				
HW64	Dimethylphenol, 2,4-	4.76 U ug/L	270.00 ug/L				
HW64-P	Dimethylphenol, 2,4-	4.76 U ug/L	270.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW64-P	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW64	Dinitrotoluene-2,4	4.76 U ug/L					
HW64-P	Dinitrotoluene-2,4	4.76 U ug/L					
HW64	Dinitrotoluene-2,6	4.76 U ug/L					
HW64-P	Dinitrotoluene-2,6	4.76 U ug/L					
HW64	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				
HW64-P	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				
HW64	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW64-P	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW64	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW64-P	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW64	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW64-P	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW64	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW64-P	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW64	Fluorene	4.76 U ug/L	220.00 ug/L				
HW64-P	Fluorene	4.76 U ug/L	220.00 ug/L				
HW64	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW64-P	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW64	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW64	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				
HW64-P	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				
HW64-P	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW64	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64-P	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW64	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW64-P	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW64	Isophorone	4.76 U ug/L	6,700.00 ug/L				



Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-P	Isophorone	4.76	U ug/L	6,700.00 ug/L				
HW64	Methane, bis(2-chloroethoxy)	4.76	U ug/L	47.00 ug/L				
HW64-P	Methane, bis(2-chloroethoxy)	4.76	U ug/L	47.00 ug/L				
HW64	Methylnaphthalene-2	4.76	U ug/L	27.00 ug/L				
HW64-P	Methylnaphthalene-2	4.76	U ug/L	27.00 ug/L				
HW64	Naphthalene	4.76	U ug/L	14.00 ug/L				
HW64	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW64-P	Naphthalene	4.76	U ug/L	14.00 ug/L				
HW64-P	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW64	Nitroaniline, ortho	4.76	U ug/L	150.00 ug/L				
HW64-P	Nitroaniline, ortho	4.76	U ug/L	150.00 ug/L				
HW64	Nitroaniline-3	4.76	U ug/L					
HW64-P	Nitroaniline-3	4.76	U ug/L					
HW64	Nitrobenzenamine-4	4.76	U ug/L	61.00 ug/L				
HW64-P	Nitrobenzenamine-4	4.76	U ug/L	61.00 ug/L				
HW64	Nitrobenzene	4.76	U ug/L	12.00 ug/L				
HW64-P	Nitrobenzene	4.76	U ug/L	12.00 ug/L				
HW64	Nitrophenol-2	4.76	U ug/L					
HW64-P	Nitrophenol-2	4.76	U ug/L					
HW64	Nitrophenol-4	9.52	U ug/L					
HW64-P	Nitrophenol-4	9.52	U ug/L					
HW64	Nitrosodimethylamine-n	4.76	U ug/L	0.04 ug/L				
HW64-P	Nitrosodimethylamine-n	4.76	U ug/L	0.04 ug/L				
HW64	Nitrosodiphenylamine-n	4.76	U ug/L	1,000.00 ug/L				
HW64-P	Nitrosodiphenylamine-n	4.76	U ug/L	1,000.00 ug/L				
HW64	Pentachlorophenol	38.10	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW64-P	Pentachlorophenol	38.10	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW64	Perylene-benzo(ghi)	4.76	U ug/L					
HW64-P	Perylene-benzo(ghi)	4.76	U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Phenanthrene	4.76 U ug/L					
HW64-P	Phenanthrene	4.76 U ug/L					
HW64	Phenol	4.76 U ug/L	4,500.00 ug/L				
HW64-P	Phenol	4.76 U ug/L	4,500.00 ug/L				
HW64	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76 U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW64-P	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76 U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW64	Phthalate, Dimethyl	4.76 U ug/L	1,400.00 ug/L				
HW64-P	Phthalate, Dimethyl	4.76 U ug/L	1,400.00 ug/L				
HW64	Phthalate, di-n-butyl-	4.76 U ug/L	670.00 ug/L				
HW64-P	Phthalate, di-n-butyl-	4.76 U ug/L	670.00 ug/L				
HW64	Phthalate, di-n-octyl	4.76 U ug/L					
HW64-P	Phthalate, di-n-octyl	4.76 U ug/L					
HW64	Phthalate-diethyl	4.76 U ug/L	11,000.00 ug/L				
HW64-P	Phthalate-diethyl	4.76 U ug/L	11,000.00 ug/L				
HW64	Propylamine,n-nitroso di-n-	4.76 U ug/L	0.93 ug/L				
HW64-P	Propylamine,n-nitroso di-n-	4.76 U ug/L	0.93 ug/L				
HW64	Pyrene	4.76 U ug/L	87.00 ug/L				
HW64-P	Pyrene	4.76 U ug/L	87.00 ug/L				
HW64	Pyrene-indeno(1,2,3-cd)	4.76 U ug/L	3.00 ug/L				
HW64-P	Pyrene-indeno(1,2,3-cd)	4.76 U ug/L	3.00 ug/L				
HW64	Tetrachlorobenzene, 1,2,4,5-	4.76 U ug/L	1.20 ug/L				
HW64-P	Tetrachlorobenzene, 1,2,4,5-	4.76 U ug/L	1.20 ug/L				
HW64	Tetrachlorophenol, 2,3,4,6-	4.76 U ug/L	170.00 ug/L				
HW64-P	Tetrachlorophenol, 2,3,4,6-	4.76 U ug/L	170.00 ug/L				
HW64	Trichlorophenol-2,4,5	4.76 U ug/L	890.00 ug/L				
HW64-P	Trichlorophenol-2,4,5	4.76 U ug/L	890.00 ug/L				
HW64	Trichlorophenol-2,4,6	4.76 U ug/L	9.04 ug/L				
HW64-P	Trichlorophenol-2,4,6	4.76 U ug/L	9.04 ug/L				
HW64	TPH - Gasoline Range Organics	25.00 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-P	TPH - Gasoline Range Organics	25.00 U ug/L					
HW64	1,2-Dibromo-3-chloropropane (DBCP)	1.00 U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW64-P	1,2-Dibromo-3-chloropropane (DBCP)	1.00 U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW64	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW64-P	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW64	Acetone	2.00 U ug/L					
HW64-P	Acetone	2.40 U ug/L					
HW64	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64-P	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64	Bromobenzene	0.50 U ug/L					
HW64-P	Bromobenzene	0.50 U ug/L					
HW64	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64-P	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64	Butylbenzene	0.50 U ug/L					
HW64-P	Butylbenzene	0.50 U ug/L					
HW64	Butylbenzene, sec-	0.50 U ug/L					
HW64-P	Butylbenzene, sec-	0.50 U ug/L					
HW64	Butylbenzene, tert-	0.50 U ug/L					
HW64-P	Butylbenzene, tert-	0.50 U ug/L					
HW64	Carbon disulfide	0.50 U ug/L					
HW64-P	Carbon disulfide	0.50 U ug/L					
HW64	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64-P	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW64-P	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW64	Chlorobromomethane	0.50 U ug/L					
HW64-P	Chlorobromomethane	0.50 U ug/L					
HW64	Chloroethane	0.50 U ug/L					
HW64-P	Chloroethane	0.50 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64-P	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW64-P	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW64	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW64-P	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW64	Cyclohexane	0.50 U ug/L					
HW64-P	Cyclohexane	0.50 U ug/L					
HW64	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64-P	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW64-P	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW64	Dibromomethane	0.50 U ug/L					
HW64-P	Dibromomethane	0.50 U ug/L					
HW64	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW64-P	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW64	Dichlorobenzene-1,3	0.50 U ug/L					
HW64-P	Dichlorobenzene-1,3	0.50 U ug/L					
HW64	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW64-P	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW64	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64-P	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW64	Dichlorodifluoromethane	0.50 U ug/L					
HW64-P	Dichlorodifluoromethane	0.50 U ug/L					
HW64	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW64-P	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW64	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW64-P	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW64	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-P	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW64	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW64-P	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW64	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW64-P	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW64	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW64-P	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW64	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW64-P	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW64	Dichloropropane, 2,2-	0.50 U ug/L					
HW64-P	Dichloropropane, 2,2-	0.50 U ug/L					
HW64	Dichloropropene, 1,1-	0.50 U ug/L					
HW64-P	Dichloropropene, 1,1-	0.50 U ug/L					
HW64	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW64-P	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW64	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW64-P	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW64	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW64-P	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW64	Freon 113	0.50 U ug/L					
HW64-P	Freon 113	0.50 U ug/L					
HW64	Hexanone, 2-	5.00 U ug/L	34.00 ug/L				
HW64-P	Hexanone, 2-	5.00 U ug/L	34.00 ug/L				
HW64	Isopropylbenzene	0.50 U ug/L					
HW64-P	Isopropylbenzene	0.50 U ug/L					
HW64	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW64-P	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW64	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW64-P	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64	Methyl acetate	0.50 U ug/L					
HW64-P	Methyl acetate	0.50 U ug/L					
HW64	Methyl bromide	0.50 U ug/L					
HW64-P	Methyl bromide	0.50 U ug/L					
HW64	Methyl chloride	0.50 U ug/L					
HW64-P	Methyl chloride	0.50 U ug/L					
HW64	Methyl cyclohexane	0.50 U ug/L					
HW64-P	Methyl cyclohexane	0.50 U ug/L					
HW64	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW64-P	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW64	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW64-P	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW64	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64-P	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64	Propylbenzene-n	0.50 U ug/L					
HW64-P	Propylbenzene-n	0.50 U ug/L					
HW64	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW64-P	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW64	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW64-P	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW64	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW64-P	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW64	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64-P	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW64-P	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW64	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW64-P	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW64	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW64-P	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW64	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW64-P	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW64	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW64-P	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW64	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64-P	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW64	Trichlorofluoromethane	0.50 U ug/L					
HW64-P	Trichlorofluoromethane	0.50 U ug/L					
HW64	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW64-P	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW64	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW64-P	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW64	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW64-P	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW64	Vinyl acetate	0.50 U ug/L					
HW64-P	Vinyl acetate	0.50 U ug/L					
HW64	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW64-P	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW64	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW64-P	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW64	Nitrogen, Nitrite + Nitrate	0.16 mg/L		10.00 mg/L		10.00 mg/L	
HW64-P	Nitrogen, Nitrite + Nitrate	0.16 mg/L		10.00 mg/L		10.00 mg/L	
HW64	Total Nitrogen	1.00 U mg/L					
HW64-P	Total Nitrogen	1.00 U mg/L					

Sample Number – Code that is used to identify the particular sample. See additional information below:

HW## – Identifies the sample location and indicates that it was collected at well head or closest point to the well head.

F – Indicates that the sample was filtered following collection. The purpose of filtering the sample is to remove any particulates in order to find what metals are actually dissolved in the water sample.

Z – Identifies a duplicate sample. Duplicate samples are collected for every ten samples collected to test the reproducibility of sampling and analytical procedures.

P – Indicates that the sample was collected at the kitchen tap. In some cases this may be following any treatment that the residence may have.

A/B – Designates which residence the sample was collected for sample locations with multiple residences using the same water source (may be a well or a spring).

RO – Indicated that the sample was collected from a residence containing a reverse osmosis treatment system.

N – Designates that the sample was collected from the new well for locations with multiple wells.

Analyte – General term for a substance in the sample. The lab does testing to find specific analytes, or substance in the water sample. The report lists each analyte that the lab tested for and what amounts were found.

TPH - Total Petroleum Hydrocarbons

Result and Units – identifies the actual result for the particular analyte and the measurement used for the particular type of sample. The results may include the following units for the various water sample analyses:

µg /L – Micrograms per liter (abbreviated as µg /L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per billion or ppb. Drinking water results are usually reported in µg /L.

mg/L – Milligrams per liter (abbreviated as mg/L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per million or ppm.

cfu/100 mL – Total Coliform Bacteria and E. coli results are reported as colony forming units (cfu) per milliliters of water. Coliform bacteria is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present. Coliforms are naturally present in the environment; as well as feces; fecal coliforms and E. coli only come from human and animal fecal waste.

cfu/1mL – Heterotrophic Plate Count Bacteria (HPC) are reported as colony forming units (cfu) per milliliter of water. HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the



Trigger Level – established for this project, the trigger levels are based on risk-based screening levels and/or standards for public water supplies. A yellow highlighted result represents an analytical result greater than the established trigger level. Results exceeding a trigger level are referred to an EPA toxicologist for further review.

EPA Primary MCLs – the primary maximum contaminant levels (MCLs) are legally enforceable standards established under the Safe Drinking Water Act to protect public health by limiting the levels of contaminants in public drinking water systems. The MCL is the amount of an analyte (substance) that can be present in a water sample that the government considers acceptable to drink. EPA considers the MCLs when evaluating results from residential drinking water wells.

EPA Secondary MCLs - secondary MCLs are non-enforceable standards regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to public water systems, but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

DEP MCLs (Primary and Secondary) – Chapter 109, Pennsylvania Safe Drinking Water Regulations, defines MCL as the maximum permissible level of a contaminant in water which is delivered to a user of a public water system, and includes the primary and secondary MCLs established under the Federal Safe Drinking Water Act, and MCLs adopted under the act.

\* No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli if two consecutive TC-positive samples, and one is also positive for E.coli fecal coliforms, system has an acute MCL violation.

\*\* EPA has not established an MCL for lead or copper. Lead and copper are regulated by a Treatment Technique that requires public drinking water systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water system must take additional steps. For lead, the action level is 15 ug/L, and for copper is 1,300 ug/L.

\*\*\* The DEP Primary MCLs for lead (5 ug/L) and copper (1,000 ug/L) are applicable only to bottled, vended, retail and bulk water hauling systems, otherwise the DEP uses the federal action levels for lead (15 ug/L), and for copper (1,300 ug/L).

Validation Result Qualifiers - EPA performs a quality check on the lab results. After this quality check, EPA may mark the measurement of certain analytes with a qualifier to give additional information about the measurement. This information can apply to 1) how certain EPA is that the lab detected the analyte and 2) how certain EPA is of the measurement of the analyte once detected. If there is no qualifier by the result, the detection and measurement of the analyte are certain

U – Indicates that the analyte was not detected. If there is a number next to the U, this number is the amount of analyte that would have to be present to be detected by the lab given the particular method and/or instrumentation.

J – This means that the analyte was detected, but the value of the result is an estimate.

J+ - The result is an estimated quantity, but the result may be biased high.

UJ - The U indicates that the analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. The reported sample quantitation limit is the number listed next to the U. The J indicates that the reported sample quantitation limit is approximate and may be inaccurate or imprecise.

R – Indicates that the data has been rejected. For glycol analyses, data with detected concentrations above the Method Detection Limit (MDL) and less than the Reporting Limit (RL) were rejected due to the laboratory not using a second column and/or gas chromatography with mass spectrometry to confirm the identity of the compound listed. For Heterotrophic Plate Count analysis, data were rejected if the laboratory did not run a method blank (i.e. sterility control) for each series of samples plated to determine whether the test samples could have been contaminated during analysis. For semivolatile organic compound analysis, non-detect data have been rejected due to low recoveries of required method quality control checks.

MDL – Is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the concentration of the substance is greater than zero.

RL – Is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions,