

# HW-28a

## EPA Validated Data Summary Report

### Dimock Residential Sampling

Sample Date: 2/3/2012

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW28a-P	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW28a	1-Propanol	10,000.00 U ug/L					
HW28a-P	1-Propanol	10,000.00 U ug/L					
HW28a	2-Butanol	10,000.00 U ug/L					
HW28a-P	2-Butanol	10,000.00 U ug/L					
HW28a	Ethanol	10,000.00 U ug/L					
HW28a-P	Ethanol	10,000.00 U ug/L					
HW28a	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW28a-P	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW28a	Anionic Surfactants	0.01 U mg/L					
HW28a-P	Anionic Surfactants	0.01 U mg/L					
HW28a	Heterotrophic Plate Count	R cfu/1mL					
HW28a-P	Heterotrophic Plate Count	R cfu/1mL					
HW28a	Total Coliform Bacteria	1.00 UJ cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW28a-P	Total Coliform Bacteria	1.00 UJ cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW28a	Ethane	1.20 U ug/L					
HW28a-P	Ethane	1.20 U ug/L					
HW28a	Ethene	1.10 U ug/L					
HW28a-P	Ethene	1.10 U ug/L					
HW28a	Methane	1.20 U ug/L	28,000.00 ug/L				
HW28a-P	Methane	1.20 U ug/L	28,000.00 ug/L				
HW28a	2-Butoxyethanol	5.00 U ug/L					
HW28a-P	2-Butoxyethanol	5.00 U ug/L					

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	2-Methoxyethanol	60.00	U ug/L	78.00 ug/L				
HW28a	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW28a-P	2-Methoxyethanol	10.00	U ug/L	78.00 ug/L				
HW28a-P	2-Methoxyethanol	57.10	U ug/L	78.00 ug/L				
HW28a	Diethylene glycol	10,000.00	U ug/L	8,000.00 ug/L				
HW28a	Diethylene Glycol	50.00	U ug/L	8,000.00 ug/L				
HW28a-P	Diethylene Glycol	50.00	U ug/L	8,000.00 ug/L				
HW28a-P	Diethylene glycol		R ug/L	8,000.00 ug/L				
HW28a	Ethanol, 2-ethoxy-	10,000.00	U ug/L					
HW28a-P	Ethanol, 2-ethoxy-	10,000.00	U ug/L					
HW28a	Ethanol, 2-methoxy-	10,000.00	U ug/L	78.00 ug/L				
HW28a-P	Ethanol, 2-methoxy-	10,000.00	U ug/L	78.00 ug/L				
HW28a	Ethylene glycol	10,000.00	U ug/L	31,000.00 ug/L				
HW28a	Ethylene glycol	10,000.00	U ug/L	31,000.00 ug/L				
HW28a-P	Ethylene glycol	10,000.00	U ug/L	31,000.00 ug/L				
HW28a-P	Ethylene glycol	10,000.00	U ug/L	31,000.00 ug/L				
HW28a	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW28a-P	Tetraethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW28a	Triethylene glycol	10,000.00	U ug/L	8,000.00 ug/L				
HW28a	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW28a-P	Triethylene glycol		R ug/L	8,000.00 ug/L				
HW28a-P	Triethylene glycol	25.00	U ug/L	8,000.00 ug/L				
HW28a	Bromide	0.50	U mg/L					
HW28a-P	Bromide	0.50	U mg/L					
HW28a	Chloride	11.30	mg/L			250.00 mg/L		250.00 mg/L
HW28a-P	Chloride	11.20	mg/L			250.00 mg/L		250.00 mg/L
HW28a	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW28a-P	Fluoride	0.10	U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW28a	Sulfate	10.70	mg/L			250.00 mg/L		250.00 mg/L

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Sulfate	10.80	mg/L			250.00 mg/L		250.00 mg/L
HW28a	Mercury	0.20 U	ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-F	Mercury	0.20 U	ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-P	Mercury	0.20 U	ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-PF	Mercury	0.20 U	ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW28a	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW28a-F	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW28a-P	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW28a-PF	Aluminum	30.00 U	ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW28a	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW28a-F	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW28a-P	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW28a-PF	Antimony	2.00 U	ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW28a	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW28a-F	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW28a-P	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW28a-PF	Arsenic	1.00 U	ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW28a	Barium	94.80	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW28a-F	Barium	94.80	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW28a-P	Barium	97.20	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW28a-PF	Barium	95.00	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW28a	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW28a-F	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW28a-P	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW28a-PF	Beryllium	1.00 U	ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW28a	Boron	50.00 U	ug/L	3,100.00 ug/L				
HW28a-F	Boron	50.00 U	ug/L	3,100.00 ug/L				
HW28a-P	Boron	50.00 U	ug/L	3,100.00 ug/L				
HW28a-PF	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
HW28a	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-P	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-PF	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW28a	Calcium	12,600.00	ug/L					
HW28a-F	Calcium	12,400.00	ug/L					
HW28a-P	Calcium	12,400.00	ug/L					
HW28a-PF	Calcium	12,200.00	ug/L					
HW28a	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW28a-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW28a-P	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW28a-PF	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW28a	Cobalt	1.00	U ug/L	4.70 ug/L				
HW28a-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW28a-P	Cobalt	1.00	U ug/L	4.70 ug/L				
HW28a-PF	Cobalt	1.00	U ug/L	4.70 ug/L				
HW28a	Copper	27.90	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW28a-F	Copper	21.60	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW28a-PF	Copper	157.00	ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW28a	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW28a-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW28a-P	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW28a-PF	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW28a	Lead	1.70	ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW28a-F	Lead	1.60	ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW28a-P	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW28a-PF	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW28a	Lithium	200.00	U ug/L	31.00 ug/L				
HW28a-F	Lithium	200.00	U ug/L	31.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Lithium	200.00	U ug/L	31.00 ug/L				
HW28a-PF	Lithium	200.00	U ug/L	31.00 ug/L				
HW28a	Magnesium	1,910.00	ug/L					
HW28a-F	Magnesium	1,880.00	ug/L					
HW28a-P	Magnesium	1,910.00	ug/L					
HW28a-PF	Magnesium	1,860.00	ug/L					
HW28a	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW28a-F	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW28a-P	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW28a-PF	Manganese	1.00	U ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW28a	Nickel	1.00	U ug/L	300.00 ug/L				
HW28a-F	Nickel	1.00	U ug/L	300.00 ug/L				
HW28a-P	Nickel	1.00	U ug/L	300.00 ug/L				
HW28a-PF	Nickel	1.00	U ug/L	300.00 ug/L				
HW28a	Potassium	2,000.00	U ug/L					
HW28a-F	Potassium	2,000.00	U ug/L					
HW28a-P	Potassium	2,000.00	U ug/L					
HW28a-PF	Potassium	2,000.00	U ug/L					
HW28a	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a-F	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a-P	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a-PF	Selenium	5.00	U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW28a-F	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW28a-P	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW28a-PF	Silver	1.00	U ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW28a	Sodium	6,730.00	ug/L	20,000.00 ug/L				
HW28a-F	Sodium	6,650.00	ug/L	20,000.00 ug/L				
HW28a-P	Sodium	6,510.00	ug/L	20,000.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-PF	Sodium	6,400.00	ug/L	20,000.00 ug/L				
HW28a	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW28a-F	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW28a-P	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW28a-PF	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW28a	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-F	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-P	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW28a-PF	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW28a	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW28a-F	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW28a-P	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW28a-PF	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW28a	Titanium	200.00 U	ug/L					
HW28a-F	Titanium	200.00 U	ug/L					
HW28a-P	Titanium	200.00 U	ug/L					
HW28a-PF	Titanium	200.00 U	ug/L					
HW28a	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW28a-F	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW28a-P	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW28a-PF	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW28a	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW28a-F	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW28a-P	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW28a-PF	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW28a	Zinc	2.00 U	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW28a-F	Zinc	2.00 U	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW28a-P	Zinc	43.70	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW28a-PF	Zinc	25.00	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Oil and Grease	5.00 UJ mg/L					
HW28a-P	Oil and Grease	5.00 UJ mg/L					
HW28a	Total Dissolved Solids	56.00 mg/L			500.00 mg/L		500.00 mg/L
HW28a-P	Total Dissolved Solids	48.00 mg/L			500.00 mg/L		500.00 mg/L
HW28a	Total Suspended Solids	10.00 U mg/L					
HW28a-P	Total Suspended Solids	10.00 U mg/L					
HW28a	1-Methylnaphthalene	5.00 U ug/L	97.00 ug/L				
HW28a-P	1-Methylnaphthalene	4.76 U ug/L	97.00 ug/L				
HW28a	Acenaphthene	60.00 U ug/L	400.00 ug/L				
HW28a-P	Acenaphthene	57.10 U ug/L	400.00 ug/L				
HW28a	Acenaphthylene	5.00 U ug/L					
HW28a-P	Acenaphthylene	4.76 U ug/L					
HW28a	Acetophenone	5.00 U ug/L	1,500.00 ug/L				
HW28a-P	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW28a	Anthracene	5.00 U ug/L	1,300.00 ug/L				
HW28a-P	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW28a	Atrazine	5.00 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW28a-P	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW28a	Benzo(a)anthracene	5.00 U ug/L	2.90 ug/L				
HW28a-P	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW28a	Benzo(a)pyrene	5.00 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW28a-P	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW28a	Biphenyl	5.00 U ug/L					
HW28a-P	Biphenyl	4.76 U ug/L					
HW28a	Bromophenyl-4 Phenyl Ether	60.00 U ug/L					
HW28a-P	Bromophenyl-4 Phenyl Ether	57.10 U ug/L					
HW28a	Butylbenzyl phthalate	5.00 U ug/L	1,400.00 ug/L				
HW28a-P	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW28a	Caprolactam	5.00 U ug/L	7,700.00 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Caprolactam	4.76	U ug/L	7,700.00 ug/L				
HW28a	Carbazole	5.00	U ug/L					
HW28a-P	Carbazole	4.76	U ug/L					
HW28a	Chlorobenzenamine-4	5.00	U ug/L	3.20 ug/L				
HW28a-P	Chlorobenzenamine-4	4.76	U ug/L	3.20 ug/L				
HW28a	Chloronaphthalene-2	5.00	U ug/L	550.00 ug/L				
HW28a-P	Chloronaphthalene-2	4.76	U ug/L	550.00 ug/L				
HW28a	Chlorophenol-2	5.00	U ug/L	71.00 ug/L				
HW28a-P	Chlorophenol-2	4.76	U ug/L	71.00 ug/L				
HW28a	Chlorophenyl-4 phenyl ether	5.00	U ug/L					
HW28a-P	Chlorophenyl-4 phenyl ether	4.76	U ug/L					
HW28a	Chrysene	5.00	U ug/L	290.00 ug/L				
HW28a-P	Chrysene	4.76	U ug/L	290.00 ug/L				
HW28a	Cresol, parachloro meta-	5.00	U ug/L					
HW28a-P	Cresol, parachloro meta-	4.76	U ug/L					
HW28a	Cresol-4,6-dinitro-ortho	60.00	U ug/L					
HW28a-P	Cresol-4,6-dinitro-ortho	57.10	U ug/L					
HW28a	Cresol-o	5.00	U ug/L	720.00 ug/L				
HW28a-P	Cresol-o	4.76	U ug/L	720.00 ug/L				
HW28a	Cresol-p	5.00	U ug/L	72.00 ug/L				
HW28a-P	Cresol-p	4.76	U ug/L	72.00 ug/L				
HW28a	Dibenz(a,h)anthracene	5.00	U ug/L	0.29 ug/L				
HW28a-P	Dibenz(a,h)anthracene	4.76	U ug/L	0.29 ug/L				
HW28a	Dibenzofuran	5.00	U ug/L					
HW28a-P	Dibenzofuran	4.76	U ug/L					
HW28a	Dichlorobenzidine-3,3'	5.00	U ug/L	11.00 ug/L				
HW28a-P	Dichlorobenzidine-3,3'	4.76	U ug/L	11.00 ug/L				
HW28a	Dichlorophenol-2,4	5.00	U ug/L	35.00 ug/L				
HW28a-P	Dichlorophenol-2,4	4.76	U ug/L	35.00 ug/L				



Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Dimethylphenol, 2,4-	5.00	U ug/L	270.00 ug/L				
HW28a-P	Dimethylphenol, 2,4-	4.76	U ug/L	270.00 ug/L				
HW28a	Dinitrophenol-2,4	60.00	U ug/L	30.00 ug/L				
HW28a-P	Dinitrophenol-2,4	57.10	U ug/L	30.00 ug/L				
HW28a	Dinitrotoluene-2,4	5.00	U ug/L					
HW28a-P	Dinitrotoluene-2,4	4.76	U ug/L					
HW28a	Dinitrotoluene-2,6	60.00	U ug/L					
HW28a-P	Dinitrotoluene-2,6	57.10	U ug/L					
HW28a	Ether, bis(2-chloroethyl)	5.00	U ug/L	1.20 ug/L				
HW28a-P	Ether, bis(2-chloroethyl)	4.76	U ug/L	1.20 ug/L				
HW28a	Ether-bis(2-chloroisopropyl)	60.00	U ug/L					
HW28a-P	Ether-bis(2-chloroisopropyl)	57.10	U ug/L					
HW28a	Fluoranthene	5.00	U ug/L	630.00 ug/L				
HW28a-P	Fluoranthene	4.76	U ug/L	630.00 ug/L				
HW28a	Fluoranthene benzo(k)	5.00	U ug/L	29.00 ug/L				
HW28a-P	Fluoranthene benzo(k)	4.76	U ug/L	29.00 ug/L				
HW28a	Fluoranthene-benzo(b)	5.00	U ug/L	5.60 ug/L				
HW28a-P	Fluoranthene-benzo(b)	4.76	U ug/L	5.60 ug/L				
HW28a	Fluorene	60.00	U ug/L	220.00 ug/L				
HW28a-P	Fluorene	57.10	U ug/L	220.00 ug/L				
HW28a	Hexachlorobenzene	5.00	U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW28a-P	Hexachlorobenzene	4.76	U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW28a	Hexachlorobutadiene	5.00	U ug/L	26.00 ug/L				
HW28a	Hexachlorobutadiene	0.50	U ug/L	26.00 ug/L				
HW28a-P	Hexachlorobutadiene	4.76	U ug/L	26.00 ug/L				
HW28a-P	Hexachlorobutadiene	0.50	U ug/L	26.00 ug/L				
HW28a	Hexachlorocyclopentadiene	5.00	U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a-P	Hexachlorocyclopentadiene	4.76	U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW28a	Hexachloroethane	5.00	U ug/L	5.10 ug/L				

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Hexachloroethane	4.76	U ug/L	5.10 ug/L				
HW28a	Isophorone	5.00	U ug/L	6,700.00 ug/L				
HW28a-P	Isophorone	4.76	U ug/L	6,700.00 ug/L				
HW28a	Methane, bis(2-chloroethoxy)	5.00	U ug/L	47.00 ug/L				
HW28a-P	Methane, bis(2-chloroethoxy)	4.76	U ug/L	47.00 ug/L				
HW28a	Methylnaphthalene-2	5.00	U ug/L	27.00 ug/L				
HW28a-P	Methylnaphthalene-2	4.76	U ug/L	27.00 ug/L				
HW28a	Naphthalene	5.00	U ug/L	14.00 ug/L				
HW28a	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW28a-P	Naphthalene	0.50	U ug/L	14.00 ug/L				
HW28a-P	Naphthalene	4.76	U ug/L	14.00 ug/L				
HW28a	Nitroaniline, ortho	5.00	U ug/L	150.00 ug/L				
HW28a-P	Nitroaniline, ortho	4.76	U ug/L	150.00 ug/L				
HW28a	Nitroaniline-3	5.00	U ug/L					
HW28a-P	Nitroaniline-3	4.76	U ug/L					
HW28a	Nitrobenzenamine-4	5.00	U ug/L	61.00 ug/L				
HW28a-P	Nitrobenzenamine-4	4.76	U ug/L	61.00 ug/L				
HW28a	Nitrobenzene	5.00	U ug/L	12.00 ug/L				
HW28a-P	Nitrobenzene	4.76	U ug/L	12.00 ug/L				
HW28a	Nitrophenol-2	5.00	U ug/L					
HW28a-P	Nitrophenol-2	4.76	U ug/L					
HW28a	Nitrophenol-4	10.00	U ug/L					
HW28a-P	Nitrophenol-4	9.52	U ug/L					
HW28a	Nitrosodimethylamine-n	5.00	U ug/L	0.04 ug/L				
HW28a-P	Nitrosodimethylamine-n	4.76	U ug/L	0.04 ug/L				
HW28a	Nitrosodiphenylamine-n	5.00	U ug/L	1,000.00 ug/L				
HW28a-P	Nitrosodiphenylamine-n	4.76	U ug/L	1,000.00 ug/L				
HW28a	Pentachlorophenol	60.00	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW28a-P	Pentachlorophenol	57.10	U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	

Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Perylene-benzo(ghi)	5.00	U ug/L					
HW28a-P	Perylene-benzo(ghi)	4.76	U ug/L					
HW28a	Phenanthrene	60.00	U ug/L					
HW28a-P	Phenanthrene	57.10	U ug/L					
HW28a	Phenol	5.00	U ug/L	4,500.00 ug/L				
HW28a-P	Phenol	4.76	U ug/L	4,500.00 ug/L				
HW28a	Phthalate, bis(2-ethylhexyl) (DEHP)	5.00	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW28a-P	Phthalate, bis(2-ethylhexyl) (DEHP)	5.00	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW28a	Phthalate, Dimethyl	5.00	U ug/L	1,400.00 ug/L				
HW28a-P	Phthalate, Dimethyl	4.76	U ug/L	1,400.00 ug/L				
HW28a	Phthalate, di-n-butyl-	5.00	U ug/L	670.00 ug/L				
HW28a-P	Phthalate, di-n-butyl-	5.00	U ug/L	670.00 ug/L				
HW28a	Phthalate, di-n-octyl	5.00	U ug/L					
HW28a-P	Phthalate, di-n-octyl	4.76	U ug/L					
HW28a	Phthalate-diethyl	5.00	U ug/L	11,000.00 ug/L				
HW28a-P	Phthalate-diethyl	5.00	U ug/L	11,000.00 ug/L				
HW28a	Propylamine,n-nitroso di-n-	5.00	U ug/L	0.93 ug/L				
HW28a-P	Propylamine,n-nitroso di-n-	4.76	U ug/L	0.93 ug/L				
HW28a	Pyrene	60.00	U ug/L	87.00 ug/L				
HW28a-P	Pyrene	57.10	U ug/L	87.00 ug/L				
HW28a	Pyrene-indeno(1,2,3-cd)	5.00	U ug/L	3.00 ug/L				
HW28a-P	Pyrene-indeno(1,2,3-cd)	4.76	U ug/L	3.00 ug/L				
HW28a	Tetrachlorobenzene, 1,2,4,5-	5.00	U ug/L	1.20 ug/L				
HW28a-P	Tetrachlorobenzene, 1,2,4,5-	4.76	U ug/L	1.20 ug/L				
HW28a	Tetrachlorophenol, 2,3,4,6-	5.00	U ug/L	170.00 ug/L				
HW28a-P	Tetrachlorophenol, 2,3,4,6-	4.76	U ug/L	170.00 ug/L				
HW28a	Trichlorophenol-2,4,5	5.00	U ug/L	890.00 ug/L				
HW28a-P	Trichlorophenol-2,4,5	4.76	U ug/L	890.00 ug/L				
HW28a	Trichlorophenol-2,4,6	5.00	U ug/L	9.04 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Trichlorophenol-2,4,6	4.76 U ug/L	9.04 ug/L				
HW28a	TPH - Diesel Range Organics	250.00 U ug/L					
HW28a-P	TPH - Diesel Range Organics	250.00 U ug/L					
HW28a	TPH - Gasoline Range Organics	50.00 U ug/L					
HW28a-P	TPH - Gasoline Range Organics	50.00 U ug/L					
HW28a	TPH - Oil Range Organics	1,000.00 U ug/L					
HW28a-P	TPH - Oil Range Organics	1,000.00 U ug/L					
HW28a	1,2-Dibromo-3-chloropropane (DBCP)	0.50 U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW28a-P	1,2-Dibromo-3-chloropropane (DBCP)	0.50 U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW28a	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW28a-P	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW28a	Acetone	2.00 U ug/L					
HW28a-P	Acetone	2.00 U ug/L					
HW28a	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a-P	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a	Bromobenzene	0.50 U ug/L					
HW28a-P	Bromobenzene	0.50 U ug/L					
HW28a	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a-P	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a	Butylbenzene	0.50 U ug/L					
HW28a-P	Butylbenzene	0.50 U ug/L					
HW28a	Butylbenzene, sec-	0.50 U ug/L					
HW28a-P	Butylbenzene, sec-	0.50 U ug/L					
HW28a	Butylbenzene, tert-	0.50 U ug/L					
HW28a-P	Butylbenzene, tert-	0.50 U ug/L					
HW28a	Carbon disulfide	0.50 U ug/L					
HW28a-P	Carbon disulfide	0.50 U ug/L					
HW28a	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a-P	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW28a-P	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW28a	Chlorobromomethane	0.50 U ug/L					
HW28a-P	Chlorobromomethane	0.50 U ug/L					
HW28a	Chloroethane	0.50 U ug/L					
HW28a-P	Chloroethane	0.50 U ug/L					
HW28a	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a-P	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW28a-P	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW28a	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW28a-P	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW28a	Cyclohexane	0.50 UJ ug/L					
HW28a-P	Cyclohexane	0.50 UJ ug/L					
HW28a	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a-P	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW28a-P	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW28a	Dibromomethane	0.50 U ug/L					
HW28a-P	Dibromomethane	0.50 U ug/L					
HW28a	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW28a-P	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW28a	Dichlorobenzene-1,3	0.50 U ug/L					
HW28a-P	Dichlorobenzene-1,3	0.50 U ug/L					
HW28a	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW28a-P	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW28a	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a-P	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW28a	Dichlorodifluoromethane	0.50 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Dichlorodifluoromethane	0.50 U ug/L					
HW28a	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW28a-P	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW28a	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-P	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW28a	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW28a-P	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW28a	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW28a-P	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW28a	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW28a-P	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW28a	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-P	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW28a	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW28a-P	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW28a	Dichloropropane, 2,2-	0.50 U ug/L					
HW28a-P	Dichloropropane, 2,2-	0.50 U ug/L					
HW28a	Dichloropropene, 1,1-	0.50 U ug/L					
HW28a-P	Dichloropropene, 1,1-	0.50 U ug/L					
HW28a	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW28a-P	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW28a	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW28a-P	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW28a	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW28a-P	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW28a	Freon 113	0.50 UJ ug/L					
HW28a-P	Freon 113	0.50 UJ ug/L					
HW28a	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW28a-P	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Isopropylbenzene	0.50 U ug/L					
HW28a-P	Isopropylbenzene	0.50 U ug/L					
HW28a	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW28a-P	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW28a	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW28a-P	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW28a	Methyl acetate	0.50 UJ ug/L					
HW28a-P	Methyl acetate	0.50 UJ ug/L					
HW28a	Methyl bromide	0.50 U ug/L					
HW28a-P	Methyl bromide	0.50 U ug/L					
HW28a	Methyl chloride	0.50 U ug/L					
HW28a-P	Methyl chloride	0.50 U ug/L					
HW28a	Methyl cyclohexane	0.50 UJ ug/L					
HW28a-P	Methyl cyclohexane	0.50 UJ ug/L					
HW28a	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW28a-P	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW28a	Methyl tertiary butyl ether (MTBE)	0.50 UJ ug/L					
HW28a-P	Methyl tertiary butyl ether (MTBE)	0.50 UJ ug/L					
HW28a	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a-P	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a	Propylbenzene-n	0.50 U ug/L					
HW28a-P	Propylbenzene-n	0.50 U ug/L					
HW28a	Styrene	1.00 UJ ug/L		100.00 ug/L		100.00 ug/L	
HW28a-P	Styrene	1.00 UJ ug/L		100.00 ug/L		100.00 ug/L	
HW28a	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW28a-P	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW28a	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW28a-P	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW28a	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a-P	Tetrachloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW28a-P	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW28a	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW28a-P	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW28a	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW28a-P	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW28a	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW28a-P	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW28a	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW28a-P	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW28a	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a-P	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW28a	Trichlorofluoromethane	0.50 U ug/L					
HW28a-P	Trichlorofluoromethane	0.50 U ug/L					
HW28a	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW28a-P	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW28a	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW28a-P	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW28a	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW28a-P	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW28a	Vinyl acetate	0.50 U ug/L					
HW28a-P	Vinyl acetate	0.50 U ug/L					
HW28a	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW28a-P	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW28a	Xylene-o	1.00 UJ ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW28a-P	Xylene-o	1.00 UJ ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW28a	Nitrogen, Nitrite + Nitrate	0.86 mg/L		10.00 mg/L		10.00 mg/L	
HW28a-P	Nitrogen, Nitrite + Nitrate	0.86 mg/L		10.00 mg/L		10.00 mg/L	



Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW28a	Total Nitrogen	1.00 U mg/L					
HW28a-P	Total Nitrogen	1.00 U mg/L					
HW28a	Total Phosphorus as P	0.05 U mg/L					
HW28a-P	Total Phosphorus as P	0.05 U mg/L					

\* 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).

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 Heterotropic 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.

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, typically set at the lowest standard in the calibration curve.

TPH - Total Petroleum Hydrocarbons

# Key to EPA Validated Data Summary Report

## Dimock Residential Sampling

### April 4, 2012

**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.

**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.

# Key to EPA Validated Data Summary Report

## Dimock Residential Sampling

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**cfu/100 mL** – Total Coliform Bacteria 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.

**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 water system is.

**Absent or Present** – Fecal Coliform Bacteria are reported as either being Absent or Present. Fecal Coliform Bacteria are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. These pathogens may pose a special health risk for infants, young children, and people with severely compromised immune systems.

**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.

**UJ** - The U before the J means that the analyte was not detected in the sample, but this result may be inaccurate. Some analyte may be present.

**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.

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**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, typically set at the lowest standard in the calibration curve.

**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.