

HW-62

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
HW62	Anionic Surfactants	0.01 U mg/L					
HW62	E. coli	1.00 UJ cfu/100mL					
HW62	Heterotropic Plate Count	300.00 J cfu/mL					
HW62	Total Coliform Bacteria	200.00 J cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW62	2-Butoxyethanol	10.00 U ug/L					
HW62	2-Methoxyethanol	10.00 U ug/L	78.00 ug/L				
HW62	Diethylene Glycol	5.00 U ug/L	8,000.00 ug/L				
HW62	Ethylene glycol	5,000.00 UJ ug/L	31,000.00 ug/L				
HW62	Propylene glycol	5,000.00 UJ ug/L					
HW62	Tetraethylene glycol	5.00 U ug/L	8,000.00 ug/L				
HW62	Triethylene glycol	25.00 U ug/L	8,000.00 ug/L				
HW62	Bromide	0.50 U mg/L					
HW62	Chloride	28.00 mg/L			250.00 mg/L		250.00 mg/L
HW62	Fluoride	0.10 U mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW62	Sulfate	10.00 mg/L			250.00 mg/L		250.00 mg/L
HW62	Aluminum	37.20 ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW62-F	Aluminum	30.00 U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW62	Antimony	2.00 U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW62-F	Antimony	2.00 U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW62	Arsenic	1.00 U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW62-F	Arsenic	1.00 U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW62	Barium	61.60 ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW62-F	Barium	61.90 ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW62	Beryllium	1.00 U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62-F	Beryllium	1.00 U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW62	Boron	50.00 U ug/L	3,100.00 ug/L				
HW62-F	Boron	50.00 U ug/L	3,100.00 ug/L				
HW62	Cadmium	1.00 U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW62-F	Cadmium	1.00 U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW62	Calcium	12,800.00 ug/L					
HW62-F	Calcium	12,900.00 ug/L					
HW62	Chromium	4.50 ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW62-F	Chromium	3.60 ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW62	Cobalt	1.00 U ug/L	4.70 ug/L				
HW62-F	Cobalt	1.00 U ug/L	4.70 ug/L				
HW62	Copper	18.80 ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW62-F	Copper	20.50 ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW62	Iron	100.00 U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW62-F	Iron	100.00 U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW62	Lead	1.80 ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW62-F	Lead	2.00 ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW62	Lithium	25.00 U ug/L	31.00 ug/L				
HW62-F	Lithium	25.00 U ug/L	31.00 ug/L				
HW62	Magnesium	1,970.00 ug/L					
HW62-F	Magnesium	1,980.00 ug/L					
HW62	Manganese	2.70 ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW62-F	Manganese	2.40 ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW62	Nickel	1.00 U ug/L	300.00 ug/L				
HW62-F	Nickel	1.00 U ug/L	300.00 ug/L				
HW62	Potassium	2,000.00 U ug/L					
HW62-F	Potassium	2,000.00 U ug/L					
HW62	Selenium	5.00 U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW62-F	Selenium	5.00 U ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62	Sodium	18,200.00 ug/L	20,000.00 ug/L				
HW62-F	Sodium	18,200.00 ug/L	20,000.00 ug/L				
HW62	Strontium	200.00 U ug/L	9,300.00 ug/L				
HW62-F	Strontium	200.00 U ug/L	9,300.00 ug/L				
HW62	Thallium	1.00 U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW62-F	Thallium	1.00 U ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW62	Tin	200.00 U ug/L	9,300.00 ug/L				
HW62-F	Tin	200.00 U ug/L	9,300.00 ug/L				
HW62	Titanium	200.00 U ug/L					
HW62-F	Titanium	200.00 U ug/L					
HW62	Uranium	1.00 U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW62-F	Uranium	2.50 U ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW62	Vanadium	5.00 U ug/L	78.00 ug/L				
HW62-F	Vanadium	5.00 U ug/L	78.00 ug/L				
HW62	Zinc	94.90 ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW62-F	Zinc	91.00 ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW62	Total Dissolved Solids	123.00 mg/L			500.00 mg/L		500.00 mg/L
HW62	Total Suspended Solids	10.00 U mg/L					
HW62	1-Methylnaphthalene	4.76 U ug/L	97.00 ug/L				
HW62	Acenaphthene	4.76 U ug/L	400.00 ug/L				
HW62	Acenaphthylene	4.76 U ug/L					
HW62	Acetophenone	4.76 U ug/L	1,500.00 ug/L				
HW62	Anthracene	4.76 U ug/L	1,300.00 ug/L				
HW62	Atrazine	4.76 U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW62	Benzaldehyde	4.76 U ug/L	1,500.00 ug/L				
HW62	Benzo(a)anthracene	4.76 U ug/L	2.90 ug/L				
HW62	Benzo(a)pyrene	4.76 U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW62	Biphenyl	4.76 U ug/L					
HW62	Bromophenyl-4 Phenyl Ether	4.76 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62	Butylbenzyl phthalate	4.76 U ug/L	1,400.00 ug/L				
HW62	Caprolactam	4.76 U ug/L	7,700.00 ug/L				
HW62	Carbazole	4.76 U ug/L					
HW62	Chlorobenzene-4	4.76 U ug/L	3.20 ug/L				
HW62	Chloronaphthalene-2	4.76 U ug/L	550.00 ug/L				
HW62	Chlorophenol-2	4.76 U ug/L	71.00 ug/L				
HW62	Chlorophenyl-4 phenyl ether	4.76 U ug/L					
HW62	Chrysene	4.76 U ug/L	290.00 ug/L				
HW62	Cresol, parachloro meta-	4.76 U ug/L					
HW62	Cresol-4,6-dinitro-ortho	38.10 U ug/L					
HW62	Cresol-o	4.76 U ug/L	720.00 ug/L				
HW62	Cresol-p	4.76 U ug/L	72.00 ug/L				
HW62	Dibenz(a,h)anthracene	4.76 U ug/L	0.29 ug/L				
HW62	Dibenzofuran	4.76 U ug/L					
HW62	Dichlorobenzidine-3,3'	4.76 U ug/L	11.00 ug/L				
HW62	Dichlorophenol-2,4	4.76 U ug/L	35.00 ug/L				
HW62	Dimethylphenol, 2,4-	4.76 U ug/L	270.00 ug/L				
HW62	Dinitrophenol-2,4	R ug/L	30.00 ug/L				
HW62	Dinitrotoluene-2,4	4.76 U ug/L					
HW62	Dinitrotoluene-2,6	4.76 U ug/L					
HW62	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				
HW62	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW62	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW62	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW62	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW62	Fluorene	4.76 U ug/L	220.00 ug/L				
HW62	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW62	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW62	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW62	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW62	Isophorone	4.76 U ug/L	6,700.00 ug/L				
HW62	Methane, bis(2-chloroethoxy)	4.76 U ug/L	47.00 ug/L				
HW62	Methylnaphthalene-2	4.76 U ug/L	27.00 ug/L				
HW62	Naphthalene	0.50 U ug/L	14.00 ug/L				
HW62	Naphthalene	4.76 U ug/L	14.00 ug/L				
HW62	Nitroaniline, ortho	4.76 U ug/L	150.00 ug/L				
HW62	Nitroaniline-3	4.76 U ug/L					
HW62	Nitrobenzenamine-4	4.76 U ug/L	61.00 ug/L				
HW62	Nitrobenzene	4.76 U ug/L	12.00 ug/L				
HW62	Nitrophenol-2	4.76 U ug/L					
HW62	Nitrophenol-4	9.52 U ug/L					
HW62	Nitrosodimethylamine-n	4.76 U ug/L	0.04 ug/L				
HW62	Nitrosodiphenylamine-n	4.76 U ug/L	1,000.00 ug/L				
HW62	Pentachlorophenol	38.10 U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW62	Perylene-benzo(ghi)	4.76 U ug/L					
HW62	Phenanthrene	4.76 U ug/L					
HW62	Phenol	4.76 U ug/L	4,500.00 ug/L				
HW62	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76 U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW62	Phthalate, Dimethyl	4.76 U ug/L	1,400.00 ug/L				
HW62	Phthalate, di-n-butyl-	4.76 U ug/L	670.00 ug/L				
HW62	Phthalate, di-n-octyl	4.76 U ug/L					
HW62	Phthalate-diethyl	4.76 U ug/L	11,000.00 ug/L				
HW62	Propylamine,n-nitroso di-n-	4.76 U ug/L	0.93 ug/L				
HW62	Pyrene	4.76 U ug/L	87.00 ug/L				
HW62	Pyrene-indeno(1,2,3-cd)	4.76 U ug/L	3.00 ug/L				
HW62	Tetrachlorobenzene, 1,2,4,5-	4.76 U ug/L	1.20 ug/L				
HW62	Tetrachlorophenol, 2,3,4,6-	4.76 U ug/L	170.00 ug/L				

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62	Trichlorophenol-2,4,5	4.76 U ug/L	890.00 ug/L				
HW62	Trichlorophenol-2,4,6	4.76 U ug/L	9.04 ug/L				
HW62	TPH - Gasoline Range Organics	25.00 U ug/L					
HW62	1,2-Dibromo-3-chloropropane (DBCP)	1.00 U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW62	4-Methyl-2-pentanone	2.00 U ug/L	1,000.00 ug/L				
HW62	Acetone	2.00 U ug/L					
HW62	Benzene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW62	Bromobenzene	0.50 U ug/L					
HW62	Bromoform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW62	Butylbenzene	0.50 U ug/L					
HW62	Butylbenzene, sec-	0.50 U ug/L					
HW62	Butylbenzene, tert-	0.50 U ug/L					
HW62	Carbon disulfide	0.50 U ug/L					
HW62	Carbon Tetrachloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW62	Chlorobenzene	0.50 U ug/L		100.00 ug/L			
HW62	Chlorobromomethane	0.50 U ug/L					
HW62	Chloroethane	0.50 U ug/L					
HW62	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW62	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW62	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW62	Cyclohexane	0.50 U ug/L					
HW62	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW62	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW62	Dibromomethane	0.50 U ug/L					
HW62	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW62	Dichlorobenzene-1,3	0.50 U ug/L					
HW62	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW62	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW62	Dichlorodifluoromethane	0.50 U ug/L					

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW62	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW62	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW62	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW62	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW62	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW62	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW62	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW62	Dichloropropane, 2,2-	0.50 U ug/L					
HW62	Dichloropropene, 1,1-	0.50 U ug/L					
HW62	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW62	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW62	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW62	Freon 113	0.50 U ug/L					
HW62	Hexanone, 2-	5.00 U ug/L	34.00 ug/L				
HW62	Isopropylbenzene	0.50 U ug/L					
HW62	Isopropylbenzene-4,methyl-1	0.50 U ug/L					
HW62	m,p-Xylene	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW62	Methyl acetate	0.50 U ug/L					
HW62	Methyl bromide	0.50 U ug/L					
HW62	Methyl chloride	0.50 U ug/L					
HW62	Methyl cyclohexane	0.50 U ug/L					
HW62	Methyl ethyl ketone	2.00 U ug/L	4,900.00 ug/L				
HW62	Methyl tertiary butyl ether (MTBE)	0.50 U ug/L					
HW62	Methylene chloride	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW62	Propylbenzene-n	0.50 U ug/L					
HW62	Styrene	1.00 U ug/L		100.00 ug/L		100.00 ug/L	
HW62	Tetrachloroethane, 1,1,1,2-	0.50 U ug/L	50.00 ug/L				
HW62	Tetrachloroethane, 1,1,2,2-	0.50 U ug/L	6.60 ug/L				
HW62	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
HW62	Toluene	0.50 U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW62	Trichlorobenzene-1,2,3	0.50 U ug/L	5.20 ug/L				
HW62	Trichlorobenzene-1,2,4	0.50 U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW62	Trichloroethane-1,1,1	0.50 U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW62	Trichloroethane-1,1,2	0.50 U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW62	Trichloroethylene	0.50 U ug/L		5.00 ug/L		5.00 ug/L	
HW62	Trichlorofluoromethane	0.50 U ug/L					
HW62	Trichloropropane-1,2,3	0.50 U ug/L	0.07 ug/L				
HW62	Trimethylbenzene-1,2,4	0.50 U ug/L	15.00 ug/L				
HW62	Trimethylbenzene-1,3,5	0.50 U ug/L	87.00 ug/L				
HW62	Vinyl acetate	0.50 U ug/L					
HW62	Vinyl chloride	0.50 U ug/L		2.00 ug/L		2.00 ug/L	
HW62	Xylene-o	1.00 U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW62	Nitrogen, Nitrite + Nitrate	0.63 mg/L		10.00 mg/L		10.00 mg/L	
HW62	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,