2009 Analyses Results for Raw Water		Table Part I	
Parameter	**Units**	**Range of Detection**	**Pueblo Raw Water Pipeline Average Level**
Clarity			
Turbidity	NTU	1.09 - 22.0	3.54
Microbiological			
Total Coliform Bacteria	MPN/100 mL	0 - 60490.1	2156.5
E. Coli Bacteria	MPN/100 mL	0 - 78.2	4.8
Giardia	Oocysts/ 100 L	ND	ND
Cryptosporidium	Oocysts/ 100 L	ND	ND
Organic Chemicals			
Pesticides			
Aldrin	µg/L	<0.01	<0.01
alpha-Chlordane	µg/L	<0.01	<0.01
Chlordane	µg/L	<0.20	<0.20
Dieldrin	µg/L	<0.01	<0.01
Endrin	µg/L	<0.01	<0.01
Hexachlorocyclopentadiene	µg/L	<0.05	<0.05
Heptachlor	µg/L	<0.01	<0.01
Heptachlor epoxide	µg/L	<0.01	<0.01
Hexachlorobenzene	µg/L	<0.02	<0.02
Methoxychlor	µg/L	<0.05	<0.05
Toxaphene	µg/L	<0.50	<0.50
gamma-Chlordane	µg/L	<0.01	<0.01
Alachlor	µg/L	<0.20	<0.20
Atrazine	µg/L	<0.10	<0.10
Simazine	µg/L	<0.07	<0.07
PCB-Total	µg/L	<0.10	<0.10
Herbicides			
2,4,-D	µg/L	<0.10	<0.10
Dicamba	µg/L	<0.30	<0.30
Dalapon	µg/L	<1.0	<1.0
Dinoseb	µg/L	<0.20	<0.20
Pentachlorophenol	µg/L	<0.04	<0.04
Picloram	µg/L	<0.10	<0.10
Silvex	µg/L	<0.20	<0.20
Butachlor	µg/L	<0.10	<0.10
Mertibuzin	µg/L	<0.10	<0.10
Propachlor	µg/L	<0.10	<0.10
Metolachlor	µg/L	<0.10	<0.10
Carbamate Pesticides			
3-Hydroxycarbofuran	µg/L	<0.50	<0.50
Aldicarb	µg/L	<0.50	<0.50
Aldicarb sulfone	µg/L	<0.50	<0.50
Aldicarb sulfoxide	µg/L	<0.50	<0.50
Carbaryl	µg/L	<0.50	<0.50
Carbofuran	µg/L	<0.50	<0.50
Methiocarb	µg/L	<0.5	<0.5
Methomyl	µg/L	<0.50	<0.50
Oxamyl (Vydate)	µg/L	<0.50	<0.50
1,2-Dibromo 3-chloropropane	µg/L	<0.02	<0.02
1,2-Dibromoethane	µg/L	<0.02	<0.02
Diquat	µg/L	<0.40	<0.40
Endothall	µg/L	<9.0	<9.0
Glyphosate	µg/L	<5.0	<5.0
gamma-BHC	µg/L	<0.01	<0.01
Other Organic Chemicals			
Benzo(a)pyrene	µg/L	<0.02	<0.02
Bis(2-ethylhexyl)adipate	µg/L	<0.60	<0.60
Bis(2-ethylhexyl)pthalate	µg/L	<0.60	<0.60

Please See Next Page for More Information (Table Part II)

Board of Water Works
of Pueblo, Colorado

2009 Analyses Results for Raw Water		Table Part II	
Parameters (Cont'd)	**Units**	**Range of Detection**	**Pueblo Raw Water Pipeline Average Level**
Inorganic Chemicals			
Trace Metals			
Aluminum	µg/L	<25.0	<25.0
Antimony	µg/L	<2.0	<2.0
Arsenic	µg/L	<2.0	<2.0
Barium	µg/L	52.6	52.6
Beryllium	µg/L	<1.0	<1.0
Cadmium	µg/L	<0.5	<0.5
Chromium	µg/L	5.4	5.4
Copper	µg/L	<10.0	<10.0
Iron	µg/L	<200	<200
Lead	µg/L	<1.0	<1.0
Manganese	µg/L	<5.0	<5.0
Mercury	µg/L	<0.134	<0.134
Molybdenum	µg/L	<5.0	<5.0
Nickel	µg/L	<10.0	<10.0
Selenium	µg/L	4.04	4.04
Silver	µg/L	<0.2	<0.2
Thallium	µg/L	<1.0	<1.0
Zinc	µg/L	<5.0	<5.0
Cations (Salts)			
Calcium	mg/L	41.9	41.9
Magnesium	mg/L	10.8	10.8
Potassium	mg/L	1.99	1.99
Sodium	mg/L	15.2	15.2
Additional Parameters			
Alkalinity (as $CaCO_3$)	mg/L	70 - 117	97
Ammonia (as Nitrogen)	mg/L	<0.02 - 0.14	0.05
Calcium Hardness (as $CaCO_3$)	mg/L	77 - 138	113
Chloride	mg/L	2.95 - 8.13	5.48
Conductivity	µmho/cm	225 - 409	348
Fluoride	mg/L	0.31 - 0.55	0.42
Total Hardness (as $CaCO_3$)	mg/L	101 - 178	150
Nitrate (as Nitrogen)	mg/L	0.12 - 0.30	0.22
Nitrite (as Nitrogen)	mg/L	<0.05	<0.05
Total Nitrate and Nitrite (as Nitrogen)	mg/L	0.12 - 0.30	0.22
Ortho-Phosphate (as Phosphorous)	mg/L	<0.50	<0.50
pH	units	7.58 - 8.59	8.1
Total Dissolved Solids	mg/L	144 - 257	220
Sulfate	mg/L	42.5 - 93.4	75.9

Listed above are regulated and unregulated contaminants detected in the raw water pipeline in 2009.

Terms and Definitions Used in the Above Data Table

Oocysts - Life cycle stage of a parasitic organism.

Turbidity - Turbidity is a measure of the cloudiness of water. We monitor is because it is a good indicator of the effectiveness of our plant's filtration system.

NTU - Nephleometric Turbidity Unit; A unit of measurement of turbidity in the water.

MPN/100 mL - Most Probable Number per 100 milliliter; The most probable number of bacterial colonies per 100 milliliters of a water sample.

ND - Not Detected

µg/L - microgram per liter or one part per billion

mg/L - milligram per liter or one part per million

< - Less Than

Please contact the Board of Water Works Water Quality Laboratory for any information regarding water quality at (719)584-0267. Hours are 8:00 am - 4:30 pm Monday through Friday.