

## Analytical Methods, Practical Detection Limits (PDL), Containers, Preservation, and Holding Times for Selected Analytes

The analytes listed in this table are frequently requested by Wyoming's Conservation Districts in their effort to determine whether or not surface water is impacted by agriculture or other activities in the drainage. The analytes requested depend on the water's beneficial uses and the type of activities potentially effecting its quality. This list is not all-inclusive; therefore the laboratory should be contacted during the design phases of a monitoring program.

### 1995 State Water Quality Standards

Cations									
Ammonia Nitrogen	1500 µg/L	NE Plastic/Glass	SC <sub>2</sub>	28 days	4 °C				
Calcium	1 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Magnesium	1 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Sodium	1 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Potassium	1 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Anions									
Alkalinity	200 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Chloride	450 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Fluoride	450 µg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Nitrate	450 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Nitrite	450 µg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Phosphate	300 µg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Sulfate	450 mg/L	Plastic/Glass	SC <sub>1</sub>	6 months					
Metals									

Selection	120	200	250	300	350	400	450	500	600	6 months
Other										
5200 (H <sub>2</sub> O)	200	250	300	350	400	450	500	600	28 days	4 °C
Conductivity	250	300	350	400	450	500	600	128 days		
4500-H <sub>2</sub> O	200	250	300	350	400	450	500	600	28 days	4 °C
Solids	250	300	350	400	450	500	600	128 days		
Solids	250	300	350	400	450	500	600	128 days		
TC	300	350	400	450	500	600	28 days	4 °C		
Turbidity	300	350	400	450	500	600	128 days			

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