



## WATER ANALYSIS RESULTS

Client: **Travis Apel USWS12415**  
**3118 N 76<sup>th</sup> St**  
**Omaha, NE 68134**

Water Source: **Missouri River Water – Oacoma, South Dakota**  
 Sample ID: **RTC-36715**  
 Collection Date and Time: **9-28-2020 / 8:00 am**  
 Received Date and Time: **12-1-2020 / 4:00 pm**  
 Date Completed: **12-8-2020**

**Definitions:**

**EPA Primary:** Standard established by the EPA as a maximum contaminant level (MCL), as the highest level of a contaminants that is allowed in drinking water. MCLs are enforceable standards under the Safe Drinking Water Act.

**EPA Secondary:** Are guidelines established by the EPA as non-enforceable standards regulating contaminants that may cause cosmetic or aesthetic effects.

**Action Levels:** Refers to contaminants that are regulated by Treatment Techniques, at which when exceeded additional action must be taken to reduce the levels of the contaminant.

**mg/L (ppm):** Unit of measurement, milligrams per liter or parts per million.

**Minimum Detection Level:** The lowest level at which the laboratory can detect a contaminant.

**ND:** The contaminant was not detected above the stated minimum detection level.

\*Sample results may be invalid due to lack of collection information or sample exceeded the holding time.

***Inorganic – Metals and Minerals***

Contaminant	Result	Units	National Standard	Minimum Detection Level
Arsenic	0.002	mg/L	0.010 mg/L EPA Primary	0.00005
Barium	0.027	mg/L	2.0 mg/L EPA Primary	0.00025
Beryllium	ND	mg/L	0.004 mg/L EPA Primary	0.00025
Boron	0.109	mg/L		0.0001
Cadmium	ND	mg/L	0.005 mg/L EPA Primary	0.0005
Calcium	55.0	mg/L		0.005
Chromium	ND	mg/L	0.1 mg/L EPA Primary	0.005
Copper	0.004	mg/L	1.3 mg/L EPA Action Level	0.0005
Iron	0.23	mg/L	0.3 mg/L EPA Secondary	0.005
Lead	ND	mg/L	0.015 mg/L EPA Action Level	0.0006
Lithium	0.054	mg/L		0.0001
Magnesium	26.1	mg/L		0.0025
Manganese	0.074	mg/L	0.05 mg/L EPA Secondary	0.001
Molybdenum	0.002	mg/L		0.001
Nickel	0.0015	mg/L		0.0005
Phosphorous	0.010	mg/L		0.0001
Potassium	5.2	mg/L		0.001
Silica	7.9	mg/L		0.05
Silicon	3.70	mg/L		0.05
Silver	ND	mg/L	0.100 mg/L EPA Secondary	0.0005
Sodium	75.0	mg/L		0.005
Strontium	0.652	mg/L		0.0005
Vanadium	0.0015	mg/L		0.0005
Zinc	0.026	mg/L	5 mg/L EPA Secondary	0.0001



**Other Inorganics & Physical Characteristics**

Contaminant	Result	Units	National Standard	Minimum Detection Level
Alkalinity	149	mg/L		20
Bromide	ND	mg/L		0.010
Chloride	12.40	mg/L	250 mg/L EPA Secondary	0.010
Fluoride	0.31	mg/L	4.0 mg/L EPA Primary	0.010
Hardness	245	mg/L		0.5
Nitrate	0.85	mg/L	10 mg/L EPA Primary	0.010
pH	8.01	pH Units	6.5 to 8.5 EPA Secondary	-
Phosphate	ND	mg/L		0.010
Sulfate	284.64	mg/L	250 mg/L EPA Secondary	0.010
Tannins	0.5	mg/L		0.05
Total Dissolved Solids	660.348	mg/L	500 mg/L EPA Secondary	20.0

**Microbiological – Coliform Bacteria**

Contaminant	Result	Units	National Standard	Minimum Detection Level (CFU/ml)
Fecal Coliform	Present*	Present/Absent	Absent	1
E.Coli	Absent*	Present/Absent	Absent	1

These results are not intended to be used to meet any regulatory requirements or for litigation purposes. Results are for informational purposes only and are useful in determining general water quality and safety.

**US Water Systems**