## FOR BOARD OF PUBLIC WORKS

## WATER ANALYSIS REPORT

P	U	ROY	2/9	
DE	יתי	יסדרני	NE	69310

BEATRICE	ΝE	68310	

BEATRICE NE 68310						
	2019	2020	2021	2022	2023	2024
Date Received:	01-15-19	01-09-20	01-05-21	01-04-22	01-05-23	01-11-24
Report Date:	01-28-19	01-18-20	01-14-21			
Lab Number:	2886103	8712852	8848130	01-10-22	01-13-23	01-23-24
Lab Number:				70048556	70226999	70401681
	Reservoir	Reservoir	Reservoir	Reservoir	Reservoir	Reservoir
Conductivity	0.894 mmhos/cm	0.684 mmhos/cm	0.684 mmhos/cm	0.841 mmhos/cm	0.927 mmhos/cm	0.708 mmhos/cm
Total Hardness	241.11 mg/L	203.49 mg/L	208.62 mg/L	208.62 mg/L	237.69 mg/L	201.78 mg/L
Grain/U.S. Gallon	14.1 gr/gal	11.9 gr/gal	12.2 gr/gal	12.2 gr/gal	13.9 gr/gal	11.8 gr/gal
•			• -	12.2 gr/gar	13.9 gr/gar	ii.o gi/gai
Calcium	73.9 ppm	61.8 ppm	63.1 ppm	64.2 ppm	72.5 ppm	61.2 ppm
Magnesium	13.9 ppm	12.1 ppm	12.5 ppm	11.8 ppm	13.7 ppm	11.7 ppm
C-4:	87.2 ppm	61 7 mm	50 0 mmm			
Sodium		61.7 ppm	59.8 ppm	68.2 ppm	78.5 ppm	59.4 ppm
Sodium absorption ration	2.523	1.874	1.795	2.048	2.211	1.818
Potassium	Not tested	Not tested	Not tested	Not tested	Not tested	Not tested
Iron	N.D.	N.D.	N.D.			
11011	N.D.	и.в.	N.D.	N.D.	N.D.	N.D.
Manganese	N.D.	N.D.	N.D.			
Manganese	м	м. 2.	и.д.	N.D.	N.D.	N.D.
Carbonate	N.D mg/L	N.D mg/L	.700 mg/L	/-	/-	
		11.2 mg/2	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N.D. mg/L	N.D. mg/L	N.D. mg/L
Bicarbonate	223 mg/L	181 mg/L	193 mg/L	004	/-	
216412611116	2239, 2	1019/ 1	1333/ 2	221 mg/L	227 mg/L	186 mg/L
Chloride	109.0 ppm	109.0 ppm	60.0 ppm			
	205.0 pp	203.0 pp	оото рр	93.0 ppm	98.0 ppm	57.6 ppm
Sulfate	44.0 ppm	44.0 ppm	44.0 ppm			
5411466	11.0 pp	o pp	11.0 pp	43.0 ppm	42.0 ppm	42.6 ppm
Fluoride	.2 ppm	.2 ppm	.2 ppm	_	_	_
. 1001100	pp	PP	. z pp	.2 ppm	.2 ppm	.2 ppm
Nitrate Nitrogen	3.6 ppm	5.8 ppm	6.9 ppm	<b>-</b> • · · · · ·		
		ore pp	0.12 PF	5.0 ppm	4.6 ppm	5.3 ppm
рН	7.12	7.00	7.57	T 06		
F				7.06	6.95	6.67
Total Dissolved Solids	581 mg/L	445 mg/L	445 mg/L	542 mm/r	CO2/T	150 /7
	<b>3,</b> -	· · · <b>J,</b> · ·	<b>g</b> , =	547 mg/L	602 mg/L	460 mg/L
Total Suspended Solids	N.D.	N.D.	4 mg/L	10 mg/L	N.D.	6 mm/T
-				IO mg/L	N.D.	6 mg/L
Total Alkalinity	223.0 mgCaCo3/L	182.0 mgCaCo3/L	182.0 mgCaCo3/L	221 mgCaCo3/L	227 mgCaCo3/L	186 mgCaCo3/L
Phosphorus	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
Zinc	0.01 mg/L	N.D mg/L	N.D mg/L	N.D mg/L	N.D mg/L	N.D mg/L
Boron	N.D. mg/L	N.D. mg/L	N.D. mg/L	N.D. mg/L	<del>-</del>	<del>-</del> -
Chromium	N.D. mg/L	N.D. mg/L	N.D. mg/L	<del>-</del> :	N.D. mg/L	.06 mg/L
Lead	N.D. mg/L	N.D. mg/L	N.D. mg/L	N.D. mg/L	N.D. mg/L	N.D. mg/L
Copper	Not tested	Not tested	Not tested	N.D. mg/L	N.D. mg/L	N.D. mg/L
Nitrite Nitrogen	N.D.	N.D.	N.D.	Not tested	Not tested	Not tested
HILLIGE HICLOSON		<i>D</i> .	14.1.	N.D.	N.D.	N.D.

## Note:

mg/L = parts per million
ug/L = parts per billion
< = less than
RL = Reporting Limit
N.D. = Not Detected