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Sample # 4682.24  
 Sample: Water  
 Other ID: TH #1 - 24

**"deep" well, ~105'--crc 9/24/24**

ROSENCRANTZ-BEMIS DRILLING  
 1105 281 BYPASS  
 P.O. BOX 713  
 GREAT BEND, KS 67530

Date Received: 09/20/2024  
 Date/Time Sampled: 9/20/2024 10:30:00  
 Date Reported: 09/23/2024  
 Total Fee: \$165.00

**RUSH**  
 ANALYSIS

++pH - SM 4500-H+ B .....  
 ++Chloride - SM 4500-Cl B .....  
 ++Total Hardness - SM 2340B .....  
 ++Nitrate-Nitrogen - SM 4500-NO3 D .....  
 ++Calcium - SM 3111B .....  
 ++Magnesium - SM 3111B .....  
 ++Sodium - SM 3111B .....  
 ++Sulfate - SM 4500 SO4 E .....  
 % Sodium .....  
 SAR-Sodium Absorption Ratio .....  
 ++Electrical Conductivity - SM 2510B .....  
 TDS-Total Dissolved Solids - Calculated .....  
 Irrigation Quality Rating .....  
 Light Soil -Salinity Hazard .....  
 Light Soil - Sodium Hazard .....  
 Medium Soil -Salinity Hazard .....  
 Medium Soil -Sodium Hazard .....  
 Heavy Soil -Salinity Hazard .....  
 Heavy Soil -Sodium Hazard .....  
 General Comment: .....

Result	Units	Date/Time Analyzed	Analyst
7.51	s.u.	9/20/2024 12:50	SE
6600.00	mg/L	9/20/2024 12:25	SE
1094	mg/L		
22.0	mg/L	9/20/2024 15:00	SE
270.00	mg/L	9/23/2024 09:00	JC
102.00	mg/L	9/23/2024 09:00	JC
3750.00	mg/L	9/23/2024 09:00	JC
780.00	mg/L	9/20/2024 12:10	SE
91	%		
49.159	s.u.		
20000	umhos/cm	9/20/2024 14:10	SE
14184	mg/L		
AS FOLLOWS			
High			
Very High			
High			
Very High			
Very High			
Very High			
Unsuitable			

\*\*Sample receipt temperature = 17.1 degrees C.  
 \*\*Sample beyond hold time for pH.

\* Analysis was subcontracted to another laboratory for state compliance - see attached.

++Denotes NELAP/KDHE Accredited Method. Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.

Methods of analysis per EPA-600 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Approved By: M. H. Hogan Quality Assurance Officer  
 matt hogan





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Sample # 4683.24  
 Sample: Water  
 Other ID: TH #2 - 24

**"shallow" well, ~82'--crc 9/24/24**

ROSENCRANTZ-BEMIS DRILLING  
 1105 281 BYPASS  
 P.O. BOX 713  
 GREAT BEND, KS 67530

Date Received: 09/20/2024  
 Date/Time Sampled: 9/20/2024 10:30:00  
 Date Reported: 09/23/2024  
 Total Fee: \$165.00

**RUSH**  
 ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B	7.42	s.u.	9/20/2024 12:52	SE
++Chloride - SM 4500-Cl B	1420.00	mg/L	9/20/2024 12:25	SE
++Total Hardness - SM 2340B	396	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D	2.28	mg/L	9/20/2024 15:00	SE
++Calcium - SM 3111B	116.00	mg/L	9/23/2024 09:00	JC
++Magnesium - SM 3111B	25.80	mg/L	9/23/2024 09:00	JC
++Sodium - SM 3111B	886.00	mg/L	9/23/2024 09:00	JC
++Sulfate - SM 4500 SO4 E	103.00	mg/L	9/20/2024 12:10	SE
% Sodium	86	%		
SAR-Sodium Absorption Ratio	19.321	s.u.		
++Electrical Conductivity - SM 2510B	5000	umhos/cm	9/20/2024 14:10	SE
TDS-Total Dissolved Solids - Calculated	3546	mg/L		
Irrigation Quality Rating	AS FOLLOWS			
Light Soil -Salinity Hazard	High			
Light Soil - Sodium Hazard	Very High			
Medium Soil -Salinity Hazard	High			
Medium Soil -Sodium Hazard	Very High			
Heavy Soil -Salinity Hazard	Very High			
Heavy Soil -Sodium Hazard	Very High			
General Comment:	Unsuitable			

\*\*Sample receipt temperature = 20.3 degrees C.

\*\*Sample beyond hold time for pH.

\* Analysis was subcontracted to another laboratory for state compliance - see attached.

++Denotes NELAP/KDHE Accredited Method. Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.

Methods of analysis per EPA-600 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1982.

Approved By:  Quality Assurance Officer

Matt Hogan

Copies:

The results reported pertain only to the samples as received by the laboratory

