

# MVTL

## MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

51 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

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ACIL

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Page: 1 of 4

Barry Botnen  
UND-Energy & Environmental  
15 N. 23rd St.  
Grand Forks ND 58201

Report Date: 24 Nov 21  
Lab Number: 21-W4445  
Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.3	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	2648	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	1430	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	1430	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1640	mg/l	12.5	SM1030-F	19 Nov 21 15:38	Calculated
Cation Summation	29.0	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	31.8	meq/L	NA	SM1030-F	19 Nov 21 15:38	Calculated
Percent Error	-4.72	%	NA	SM1030-F	19 Nov 21 15:38	Calculated
Bromide	0.770	mg/l	0.100	EPA 300.0	16 Nov 21 1:35	RMV
Total Organic Carbon	2.6	mg/l	0.5	SM5310C-11	19 Nov 21 13:57	NAS
Dissolved Organic Carbon	2.6	mg/l	0.5	SM5310C-96	19 Nov 21 13:57	NAS
Fluoride	0.82	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	13.7	mg/l	5.00	ASTM D516-11	19 Nov 21 15:38	SD
Chloride	104	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 9:35	SD
Phosphorus as P-Dissolved	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 14:00	MDE
Total Dissolved Solids	1680	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix                      # = Due to concentration of other analytes  
! = Due to sample quantity                    + = Due to internal standard response

CERTIFICATION: ND # ND-00016

# MVTL

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UND-Energy & Environmental  
15 N. 23rd St.  
Grand Forks ND 58201

Report Date: 24 Nov 21  
Lab Number: 21-W4445  
Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	3.6	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.8	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	655	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	3.3	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.096	mg/l	0.020	6010D	16 Nov 21 10:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	5.87	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.18	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	0.33	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	1.54	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	3.7	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.8	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	656	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	4.0	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.103	mg/l	0.020	6010D	16 Nov 21 12:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Iron - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Silicon - Dissolved	6.14	mg/l	0.10	6010D	16 Nov 21 16:55	SZ
Strontium - Dissolved	0.19	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Zinc - Dissolved	0.33	mg/l	0.05	6010D	15 Nov 21 13:55	MDE
Boron - Dissolved	1.54	mg/l	0.10	6010D	17 Nov 21 15:08	SZ
Antimony - Total	< 0.002 ^	mg/l	0.0010	6020B	17 Nov 21 14:23	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Barium - Total	0.1072	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE

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Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 14:23	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 14:23	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Copper - Total	0.0460	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Lead - Total	0.0032	mg/l	0.0005	6020B	17 Nov 21 14:23	MDE
Manganese - Total	0.0022	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Molybdenum - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	17 Nov 21 14:23	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 14:23	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 14:23	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	17 Nov 21 14:23	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.1052	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0026	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Molybdenum - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

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UND-Energy & Environmental  
15 N. 23rd St.  
Grand Forks ND 58201

Report Date: 24 Nov 21  
Lab Number: 21-W4445  
Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

\* Holding time exceeded

^ Elevated result due to instrument performance at the lower limit of quantification (LLOQ).

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

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Barry Botnen  
UND-Energy & Environmental  
15 N. 23rd St.  
Grand Forks ND 58201

Report Date: 24 Nov 21  
Lab Number: 21-W4446  
Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510 Dup

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Metal Digestion				EPA 200.2	11 Nov 21	RAA
pH	* 8.4	units	N/A	SM4500-H+-B-11	11 Nov 21 18:00	RAA
Conductivity (EC)	2651	umhos/cm	N/A	SM2510B-11	11 Nov 21 18:00	RAA
Total Alkalinity	1430	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Phenolphthalein Alk	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Bicarbonate	1419	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Carbonate	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Hydroxide	< 20	mg/l CaCO3	20	SM2320B-11	11 Nov 21 18:00	RAA
Tot Dis Solids(Summation)	1700	mg/l	12.5	SM1030-F	19 Nov 21 15:38	Calculated
Cation Summation	29.0	meq/L	NA	SM1030-F	16 Nov 21 12:36	Calculated
Anion Summation	31.8	meq/L	NA	SM1030-F	19 Nov 21 15:38	Calculated
Percent Error	-4.63	%	NA	SM1030-F	19 Nov 21 15:38	Calculated
Bromide	0.770	mg/l	0.100	EPA 300.0	16 Nov 21 1:56	RMV
Total Organic Carbon	2.6	mg/l	0.5	SM5310C-11	19 Nov 21 13:57	NAS
Dissolved Organic Carbon	2.6	mg/l	0.5	SM5310C-96	19 Nov 21 13:57	NAS
Fluoride	0.82	mg/l	0.10	SM4500-F-C	11 Nov 21 18:00	RAA
Sulfate	13.3	mg/l	5.00	ASTM D516-11	19 Nov 21 15:38	SD
Chloride	104	mg/l	2.0	SM4500-Cl-E-11	17 Nov 21 13:30	SD
Nitrate-Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	18 Nov 21 15:33	SD
Nitrite as N	< 0.2	mg/l	0.20	EPA 353.2	11 Nov 21 15:01	SD
Phosphorus as P - Total	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 9:35	SD
Phosphorus as P-Dissolved	< 0.2	mg/l	0.20	EPA 365.1	19 Nov 21 10:05	SD
Mercury - Total	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 12:33	MDE
Mercury - Dissolved	< 0.0002	mg/l	0.0002	EPA 245.1	18 Nov 21 14:00	MDE
Total Dissolved Solids	1680	mg/l	10	USGS I1750-85	12 Nov 21 9:25	RAA

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Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510 Dup

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Calcium - Total	3.7	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Magnesium - Total	1.8	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Sodium - Total	720	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Potassium - Total	3.5	mg/l	1.0	6010D	16 Nov 21 12:36	MDE
Lithium - Total	0.100	mg/l	0.020	6010D	16 Nov 21 10:32	SZ
Aluminum - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Iron - Total	< 0.1	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Silicon - Total	6.07	mg/l	0.10	6010D	16 Nov 21 14:55	SZ
Strontium - Total	0.19	mg/l	0.10	6010D	12 Nov 21 15:33	MDE
Zinc - Total	0.34	mg/l	0.05	6010D	12 Nov 21 15:33	MDE
Boron - Total	1.58	mg/l	0.10	6010D	17 Nov 21 12:08	SZ
Calcium - Dissolved	3.6	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Magnesium - Dissolved	1.8	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Sodium - Dissolved	657	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Potassium - Dissolved	4.0	mg/l	1.0	6010D	16 Nov 21 10:36	MDE
Lithium - Dissolved	0.100	mg/l	0.020	6010D	16 Nov 21 12:32	SZ
Aluminum - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Iron - Dissolved	< 0.1	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Silicon - Dissolved	6.24	mg/l	0.10	6010D	16 Nov 21 16:55	SZ
Strontium - Dissolved	0.18	mg/l	0.10	6010D	15 Nov 21 13:55	MDE
Zinc - Dissolved	0.32	mg/l	0.05	6010D	15 Nov 21 13:55	MDE
Boron - Dissolved	1.56	mg/l	0.10	6010D	17 Nov 21 15:08	SZ
Antimony - Total	< 0.001	mg/l	0.0010	6020B	16 Nov 21 13:21	MDE
Arsenic - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Barium - Total	0.1086	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE

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Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510 Dup

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Beryllium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Cadmium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Chromium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Cobalt - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Copper - Total	0.0031	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Lead - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Manganese - Total	0.0028	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Molybdenum - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Nickel - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Selenium - Total	< 0.005	mg/l	0.0050	6020B	16 Nov 21 13:21	MDE
Silver - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Thallium - Total	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 13:21	MDE
Vanadium - Total	< 0.002	mg/l	0.0020	6020B	16 Nov 21 13:21	MDE
Antimony - Dissolved	< 0.001	mg/l	0.0010	6020B	16 Nov 21 14:31	MDE
Arsenic - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Barium - Dissolved	0.1041	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Beryllium - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Cadmium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Chromium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Cobalt - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Copper - Dissolved	0.0025	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Lead - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Manganese - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Molybdenum - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE
Nickel - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix                      # = Due to concentration of other analytes  
! = Due to sample quantity                    + = Due to internal standard response

CERTIFICATION: ND # ND-00016

# MVTL

## MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

51 W. Lincoln Way ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER  
ACIL

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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Page: 4 of 4

Barry Botnen  
UND-Energy & Environmental  
15 N. 23rd St.  
Grand Forks ND 58201

Report Date: 24 Nov 21  
Lab Number: 21-W4446  
Work Order #: 82-3151  
Account #: 007033  
Date Sampled: 11 Nov 21 10:00  
Date Received: 11 Nov 21 7:18  
Sampled By: Client

Project Name: North Dakota Carbon Safe  
Sample Description: NDCS-W510 Dup

Temp at Receipt: 1.0C ROI

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Selenium - Dissolved	< 0.005	mg/l	0.0050	6020B	16 Nov 21 14:31	MDE
Silver - Dissolved	< 0.0005	mg/l	0.0005	6020B	17 Nov 21 15:06	MDE
Thallium - Dissolved	< 0.0005	mg/l	0.0005	6020B	16 Nov 21 14:31	MDE
Vanadium - Dissolved	< 0.002	mg/l	0.0020	6020B	16 Nov 21 14:31	MDE

\* Holding time exceeded

Approved by:

Claudette K. Carroll

Claudette K. Carroll, Laboratory Manager, Bismarck, ND

RL = Method Reporting Limit

The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix                      # = Due to concentration of other analytes  
! = Due to sample quantity                    + = Due to internal standard response

CERTIFICATION: ND # ND-00016