

State/Industry Ambient Monitoring Network

Air Quality Report

1st Quarter 2006

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SECTION ONE

DISCUSSION OF
MONITORING RESULTS

Sulfur Dioxide (SO₂)

There were no exceedances of either the state or the federal standards during the quarter. The maximum 1-hour concentration was 117 ppb on February 14 at Hess - Tioga #3; the maximum 3-hour concentration was 65 ppb on February 14 at Hess - Tioga #3; and, the maximum 24-hour concentration was 14 ppb on February 14 at Hess - Tioga #3. The highest annual arithmetic mean is 2.3 ppb at Hess - Tioga #3. All sites achieved at least an 80% data recovery for the period operated.

The Fargo standard SO₂ analyzer was terminated effective December 31, 2005 and replaced with a new Trace Level SO₂ analyzer.

Sulfur Dioxide (SO₂) 5-Minute Average

The maximum 5-minute concentration was 243 ppb on February 14 at Hess - Tioga #3. All sites achieved at least an 80% data recovery for the period operated.

The Fargo standard SO₂ analyzer was terminated effective December 31, 2005 and replaced with a new Trace Level SO₂ analyzer.

Trace Level Sulfur Dioxide (SO₂)

There were no exceedances of either the state or the federal standards during the quarter. The maximum 1-hour concentration was 5.5 ppb on February 28 at Fargo NW; the maximum 3-hour concentration was 3.3 ppb on February 6 at Fargo NW; and, the maximum 24-hour concentration was 1.6 ppb on February 6 at Fargo NW. The maximum annual arithmetic mean is 0.5 ppb at Fargo NW. All sites achieved at least an 80% data recovery for the period operated.

The Trace Level SO₂ analyzer was added to the Fargo NW site effective January 1, 2006.

Trace Level Sulfur Dioxide (SO₂) 5-Minute Average

The maximum 5-minute concentration was 10.7 ppb on February 28 at Fargo NW. All sites achieved at least an 80% data recovery for the period operated.

The Trace Level SO₂ analyzer was added to the Fargo NW site effective January 1, 2006.

Ozone (O₃)

There was no exceedance of the ozone standard during the quarter. The highest observed 1-hour concentration was 58 ppb on March 25 at TRNP - SU. The highest 4th highest 8-hour concentration was 51 ppb on March 19 at TRNP - SU. All sites with the exception of Bismarck Residential achieved at least an 80% data recovery for the period operated.

Bismarck Residential failed to achieve 80% data recovery due to an equipment malfunction.

Nitrogen Dioxide (NO₂)

The highest observed 1-hour concentration was 47 ppb on February 8 at Fargo NW. The maximum arithmetic mean concentration was 8.1 ppb at Bismarck Residential. All sites with the exception of Dunn Center achieved at least an 80% data recovery for the period operated.

Dunn Center failed to achieve 80% data recovery due to an equipment malfunction.

Ammonia (NH₃)

The highest 1-hour concentration was 102.6 ppb on March 7 at Beulah - North . The site achieved an 80% data recovery for the period.

The data is used as part of the ambient data input used by the newer dispersion models.

Inhalable Continuous PM_{2.5} Particulates

There was no exceedance of the 24-hour standard during the quarter. The highest 24-hour concentration was 21.9 µg/m³ on February 3 at Beulah - North. The highest arithmetic mean concentration was 9.3 µg/m³ at Fargo NW. All sites achieved at least an 80% data recovery for the period operated.

Inhalable PM_{2.5} Particulates

There was no exceedance of the 24-hour standard during the quarter. The highest 24-hour average concentration was 24.2 µg/m³ on March 30 at Fargo NW. The highest arithmetic mean was 9.3 µg/m³ at Fargo NW. All sites achieved at least an 80% data recovery for the period.

Inhalable Continuous PM₁₀ Particulates

There was no exceedance of the 24-hour standard during the quarter. The maximum 24-hour concentration was 48.4 µg/m³ on March 26 at Bismarck Residential. The highest arithmetic mean was 10.9 µg/m³ at Bismarck Residential. The site achieved an 80% data recovery for the period.

SECTION TWO

AMBIENT AIR QUALITY DATA

SUMMARIES

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : Sulfur Dioxide (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	1 - HOUR		M A X I M A 3 - HOUR		24 - HOUR		ARITH MEAN	1HR #>273	24HR #>99	% >MDV
				1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD	2ND MM/DD				
Bear Paw - MGP #3	2006	JAN-MAR	2142	27 02/15:10	6 01/19:04	11 02/15:11	5 02/26:11	2 02/15	2 01/19	1.1			4.0
Bear Paw - MGP #5	2006	JAN-MAR	2144	9 03/23:09	7 02/26:11	6 02/27:20	5 03/12:05	3 03/15	2 03/06	1.2			9.4
Beulah - North	2006	JAN-MAR	2139	29 03/16:09	24 03/15:15	16 03/16:11	15 02/26:11	6 02/26	5 03/16	1.7			20.9
Bismarck Residential	2006	JAN-MAR	2105	30 02/03:10	26 03/02:14	20 03/02:14	14 01/17:14	7 03/02	5 02/03	1.8			21.3
DGC #12	2006	JAN-MAR	2145	35 02/26:11	22 01/20:15	18 03/15:14	17 03/15:11	6 03/15	4 02/27	1.6			15.0
DGC #14	2006	JAN-MAR	2127	24 01/28:16	21 01/28:17	20 01/28:17	11 03/11:14	4 01/28	4 03/19	1.5			13.7
DGC #16	2006	JAN-MAR	2146	32 01/28:17	25 01/28:16	20 01/28:17	15 02/05:08	5 03/17	4 02/27	1.6			16.4
DGC #17	2006	JAN-MAR	2149	21 03/14:15	20 01/28:17	16 03/22:11	14 03/21:11	6 03/21	5 03/18	1.7			17.9
Dunn Center	2006	JAN-MAR	2146	18 02/26:10	13 03/24:13	11 02/26:11	11 03/24:14	4 02/26	3 03/24	1.2			7.1
Hannover	2006	JAN-MAR	2144	33 01/28:12	29 01/20:12	21 01/20:14	20 02/27:11	7 02/27	6 01/28	1.6			13.8
Hess - Tioga #1	2006	JAN-MAR	2120	18 01/05:21	18 01/09:16	12 01/09:17	10 02/01:17	4 01/09	2 02/08	1.3			8.7
Hess - Tioga #3	2006	JAN-MAR	2112	117 02/14:22	71 02/14:23	65 02/14:23	36 03/27:11	14 02/14	12 03/27	2.3			17.8
Lostwood NWR	2006	JAN-MAR	2140	39 01/20:08	31 03/12:14	20 03/12:14	19 03/12:17	7 03/12	5 03/02	1.6			18.5
TRNP - NU	2006	JAN-MAR	2112	11 02/26:15	10 02/26:11	7 02/26:17	7 02/26:11	4 02/26	2 03/03	1.2			9.8

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Sulfur Dioxide** (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	1 - HOUR		M A X I M A 3 - HOUR		24 - HOUR		ARITH MEAN	1HR #>273	24HR #>99	% >MDV
				1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD	2ND MM/DD				
TRNP - SU	2006	JAN-MAR	2127	3 03/16:05	3 03/16:06	2 03/16:02	2 03/16:08	1 03/16	1 03/29	1.0			0.6

The maximum 1-hour concentration is 117 ppb at Hess - Tioga #3 on 02/14:22
 The maximum 3-hour concentration is 65 ppb at Hess - Tioga #3 on 02/14:23
 The maximum 24-hour concentration is 14 ppb at Hess - Tioga #3 on 02/14
 The maximum annual arithmetic mean concentration was 2.3 ppb at Hess - Tioga #3

* The air quality standards are:

STATE Standards -

- 1) 273 ppb maximum 1-hour average concentration.
- 2) 99 ppb maximum 24-hour average concentration.
- 3) 23 ppb maximum annual arithmetic mean concentration.

FEDERAL Standards -

- 1) 500 ppb maximum 3-hour concentration not to be exceeded more than once per year.
- 2) 140 ppb maximum 24-hour concentration not to be exceeded more than once per year.
- 3) 30 ppb annual arithmetic mean.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : Sulfur Dioxide 5-Minute Averages (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	5 - M I N U T E			M A X I M A			# HOURS >600	% >MDV
				1ST	DATE	2ND	DATE	3RD	DATE		
					MM/DD:HH		MM/DD:HH		MM/DD:HH		
Bear Paw - MGP #3	2006	JAN-MAR	2142	89	02/15:10	19	02/15:09	11	02/09:11	0	11.7
Bear Paw - MGP #5	2006	JAN-MAR	2144	53	03/23:09	32	03/24:16	13	02/21:18	0	19.8
Beulah - North	2006	JAN-MAR	2139	58	03/16:09	49	01/25:10	47	02/26:10	0	33.4
Bismarck Residential	2006	JAN-MAR	2105	34	02/03:10	33	03/02:06	32	03/02:14	0	28.3
Dunn Center	2006	JAN-MAR	2146	24	02/26:10	18	03/14:20	18	03/24:13	0	15.3
Hannover	2006	JAN-MAR	2144	90	01/28:11	67	01/28:12	63	02/24:10	0	24.8
Hess - Tioga #1	2006	JAN-MAR	2120	63	02/01:17	62	02/01:16	58	01/09:17	0	13.8
Hess - Tioga #3	2006	JAN-MAR	2112	243	02/14:22	181	02/14:23	165	02/06:21	0	32.0
Lostwood NWR	2006	JAN-MAR	2140	60	01/20:08	45	01/20:09	39	03/12:14	0	25.1
TRNP - NU	2006	JAN-MAR	2112	14	02/26:11	14	03/10:09	12	02/26:10	0	15.0
TRNP - SU	2006	JAN-MAR	2127	6	01/02:23	6	01/26:05	6	03/10:23	0	4.8

The maximum 5-minute concentration is 243 ppb at Hess - Tioga #3 on 02/14:22

* No Standard is currently in effect

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Trace Level Sulfur Dioxide** (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	1 - HOUR		M A X I M A 3 - HOUR		24 - HOUR		ARITH MEAN	1HR #>273	24HR #>99	% >MDV
				1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD	2ND MM/DD				
Fargo NW	2006	JAN-MAR	2127	5.5 02/28:01	5.0 02/28:07	3.3 02/06:20	3.2 02/28:02	1.6 02/06	1.6 02/28	0.50			73.2

The maximum 1-hour concentration is 5.5 ppb at Fargo NW On 02/28:01
 The maximum 3-hour concentration is 3.3 ppb at Fargo NW on 02/06:20
 The maximum 24-hour concentration is 1.6 ppb at Fargo NW on 02/06
 The maximum annual arithmetic concentration is 0.5 ppb at Fargo NW

* The air quality standards are:

STATE Standards -

- 1) 273 ppb maximum 1-hour average concentration.
- 2) 99 ppb maximum 24-hour average concentration.
- 3) 23 ppb maximum annual arithmetic mean concentration.

FEDERAL Standards -

- 1) 500 ppb maximum 3-hour concentration not to be exceeded more than once per year.
- 2) 140 ppb maximum 24-hour concentration not to be exceeded more than once per year.
- 3) 30 ppb annual arithmetic mean.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Trace Level Sulfur Dioxide 5-Minute Averages** (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	5 - M I N U T E			M A X I M A 3RD DATE	# HOURS >600	% >MDV
				1ST DATE MM/DD:HH	2ND DATE MM/DD:HH	DATE MM/DD:HH			
Fargo NW	2006	JAN-MAR	2131	10.7 02/28:07	10.7 02/28:04	9.5 02/28:01	0	66.4	

The maximum 5-minute concentration is 10.7 ppb at Fargo NW on 02/28:07

* No Standard is currently in effect:

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : Ozone (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	1 - HOUR		M A X I M A		8 - HOUR		4TH	1HR #>120	8HR #>80
				1ST MM/DD	2ND MM/DD	1ST MM/DD	2ND MM/DD	3RD MM/DD	MM/DD			
Beulah - North	2006	JAN-MAR	2141	57 03/26	51 03/28	55 03/26	52 03/27	50 03/28	47 03/17			
Bismarck Residential	2006	JAN-MAR	1508 ***	56 03/26	47 03/18	55 03/26	44 03/18	44 03/19	44 03/17			
Dunn Center	2006	JAN-MAR	2146	48 03/31	48 03/28	47 03/18	47 03/19	47 03/26	44 03/17			
Fargo NW	2006	JAN-MAR	2140	55 03/24	54 03/18	51 03/23	50 03/24	48 03/11	47 03/26			
Hannover	2006	JAN-MAR	2146	55 03/26	51 03/27	52 03/26	47 03/24	47 03/27	46 03/28			
Lostwood NWR	2006	JAN-MAR	2145	54 03/26	52 03/27	51 03/26	49 03/19	48 03/18	48 03/24			
TRNP - NU	2006	JAN-MAR	2118	53 03/27	52 03/26	51 03/27	49 03/19	49 03/28	49 03/31			
TRNP - SU	2006	JAN-MAR	2130	58 03/25	56 03/27	54 03/27	54 03/25	54 03/26	51 03/19			

The maximum 1-hour concentration is 58 ppb at TRNP - SU on 03/25
The 4th highest 8-hour concentration is 51 ppb at TRNP - SU on 03/19

* The air quality standards for ozone are:
STATE - 120 ppb not to be exceeded more than once per year.

FEDERAL - Fourth highest daily maximum 8-hour averages for a 3-year period not to exceed 80 ppb.

*** Less than 80% of the possible samples (data) were collected.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Nitrogen Dioxide** (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	M A X I M A 1 - HOUR		ARITH MEAN	% >MDV
				1ST MM/DD:HH	2ND MM/DD:HH		
Beulah - North	2006	JAN-MAR	2134	25 01/28:04	21 03/01:00	2.9	90.3
Bismarck Residential	2006	JAN-MAR	2100	41 02/20:21	39 02/25:05	8.1	100.0
DGC #12	2006	JAN-MAR	2139	25 03/03:03	23 03/03:02	3.4	99.4
DGC #17	2006	JAN-MAR	2146	23 03/14:15	20 01/28:02	2.6	85.8
Dunn Center	2006	JAN-MAR	1362 ***	13 01/29:00	12 03/14:18	1.3	70.2
Fargo NW	2006	JAN-MAR	2133	47 02/08:18	46 02/21:04	7.8	95.2
Hannover	2006	JAN-MAR	2138	33 03/18:02	25 01/29:00	2.0	75.5
Lostwood NWR	2006	JAN-MAR	2137	17 01/20:08	11 01/05:04	1.2	42.8
TRNP - NU	2006	JAN-MAR	2065	11 02/28:21	11 02/28:22	1.3	75.2

The maximum 1-hour concentration is 47 ppb at Fargo NW on 02/08:18
The maximum arithmetic mean was 8.1 ppb at Bismarck Residential

* The air quality standards are:
STATE - 53 ppb maximum annual arithmetic mean.

FEDERAL - 53 ppb annual arithmetic mean.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Ammonia** (ppb)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	M A X I M A					
				1ST MM/DD:HH	2ND MM/DD:HH	3RD MM/DD:HH	4TH MM/DD:HH	5TH MM/DD:HH	6TH MM/DD:HH
Beulah - North	2006	JAN-MAR	2125	102.6 03/07:12	67.6 03/07:11	60.5 01/03:15	57.6 02/03:12	50.9 02/10:01	49.7 03/02:13

* No standard is currently in effect.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : **Inhalable Continuous PM_{2.5} Particulates** (µg/m³)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	M A X I M A		24 - HOUR				ARITH MEAN	24HR #>65	AM>15
				1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD	2ND MM/DD	3RD MM/DD	4TH MM/DD			
Beulah - North	2006	JAN-MAR	2136	129.6 02/03:12	103.1 02/03:13	21.9 02/03	14.2 03/01	13.8 03/02	12.5 03/26	6.2		
Bismarck Residential	2006	JAN-MAR	2141	36.4 01/13:04	30.6 01/13:03	9.6 03/01	9.3 01/13	8.3 03/26	7.6 03/27	3.7		
Dunn Center	2006	JAN-MAR	2144	25.6 02/23:09	22.5 03/01:05	9.7 03/26	8.4 03/01	7.6 02/28	7.2 02/26	2.7		
Fargo NW	2006	JAN-MAR	2135	21.1 02/06:11	21.0 02/06:09	11.9 03/30	10.3 03/29	10.2 02/06	7.8 02/08	3.7		
Hannover	2006	JAN-MAR	2141	51.0 01/17:13	40.7 01/13:02	12.8 03/26	11.9 03/01	10.3 01/13	10.2 02/28	5.8		
Lostwood NWR	2006	JAN-MAR	2139	28.6 02/08:10	25.4 02/08:09	10.4 03/26	7.2 02/08	7.0 02/28	6.4 02/04	2.7		
TRNP - NU	2006	JAN-MAR	2112	32.8 02/26:13	30.1 02/26:16	12.7 02/26	8.9 03/26	6.4 03/04	6.3 03/01	2.5		
TRNP - SU	2006	JAN-MAR	2126	31.6 01/16:10	29.8 03/03:03	10.5 03/26	9.1 03/01	8.2 03/15	7.9 03/03	5.1		

The highest 24-hour concentration is 21.9 µg/m³ at Beulah - North on 02/03
The highest Annual Mean concentration is 6.2 µg/m³ at Beulah - North

* The ambient air quality standards are:
FEDERAL Standards -

- 1) 24-hour: 3-year average of 98th percentiles not to exceed 65 µg/m³.
- 2) Annual: 3-year average not to exceed 15 µg/m³.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : Inhalable PM_{2.5} Particulates (µg/m³)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	MIN	M A X I M A 24 - HOUR			ARITH MEAN	#> 65	AM>15	% >MDV
					1ST MM/DD	2ND MM/DD	3RD MM/DD				
Beulah - North	2006	JAN-MAR	15	1.9	22.5 02/28	11.6 03/18	10.4 02/04	7.1			93.3
Bismarck Residential	2006	JAN-MAR	29	2.5	21.9 02/28	15.4 03/30	14.8 01/29	7.5			100.0
Fargo NW	2006	JAN-MAR	29	2.6	24.2 03/30	15.9 03/27	15.8 03/09	9.3			100.0
TRNP - NU	2006	JAN-MAR	12	1.9	17.3 02/28	10.8 03/18	9.2 03/30	5.8			91.7
TRNP - SU	2006	JAN-MAR	15	1.1	10.6 03/18	8.3 02/28	5.7 03/06	3.5			60.0

The highest 24-hour concentration is 24.2 µg/m³ at Fargo NW on 03/30
The highest Annual Mean concentration is 9.3 µg/m³ at Fargo NW

* The ambient air quality standards are:

FEDERAL Standards -

- 1) 24-hour: 3-year average of 98th percentiles not to exceed 65 µg/m³.
- 2) Annual: 3-year average not to exceed 15 µg/m³.

COMPARISON OF AIR QUALITY DATA WITH
THE NORTH DAKOTA AMBIENT AIR QUALITY STANDARDS *

POLLUTANT : Inhalable Continuous PM₁₀ Particulates (µg/m³)

LOCATION	YEAR	SAMPLING PERIOD	NUM OBS	1 - HOUR		M A X I M A		24 - HOUR		ARITH MEAN	24HR #>150	AM>50
				1ST MM/DD:HH	2ND MM/DD:HH	1ST MM/DD	2ND MM/DD	3RD MM/DD	4TH MM/DD			
Bismarck Residential	2006	JAN-MAR	2141	215.0 03/26:14	154.0 03/26:13	48.4 03/26	19.1 03/07	18.4 02/16	17.9 02/20	10.9		
Dunn Center	2006	JAN-MAR	2144	76.0 03/14:19	70.0 02/28:12	18.5 03/15	17.8 02/28	16.0 02/10	14.3 03/26	7.2		
Fargo NW	2006	JAN-MAR	2121	46.0 02/16:20	45.0 02/16:21	23.9 02/06	20.3 02/16	18.4 03/27	17.2 02/08	9.6		
Lostwood NWR	2006	JAN-MAR	2136	96.0 03/18:21	76.0 03/26:15	22.6 03/26	16.0 03/18	15.7 02/16	14.2 02/09	7.0		
TRNP - NU	2006	JAN-MAR	2112	43.0 02/09:17	38.0 02/09:16	14.6 02/26	14.0 02/09	13.8 03/04	13.4 02/10	6.5		

The highest 24-hour concentration is 48.4 µg/m³ at Bismarck Residential on 03/26

The highest Annual Mean concentration is 10.9 µg/m³ at Bismarck Residential

* The STATE and FEDERAL air quality standards are:

- 1) 150 µg/m³ maximum averaged over a 24-hour period with no more than one expected exceedance per year.
- 2) 50 µg/m³ expected annual arithmetic mean.

SECTION THREE

EXCEEDANCE LISTINGS

By Site Date Hour

All Units Are in Parts Per Billion Except Wind Direction (Degrees),
Wind Speed (MPH), CO (PPM), and PM_{2.5} and PM₁₀ (µg/m³)

The * Identifies the Exceedances

NONE

By Date Hour Site

All Units Are in Parts Per Billion Except Wind Direction (Degrees),
Wind Speed (MPH), CO (PPM), and PM_{2.5} and PM₁₀ (µg/m³)

The * Identifies the Exceedances

NONE