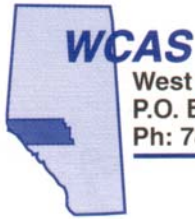




**HINTON PULP**  
A DIVISION OF WEST FRASER MILLS LIMITED  
Continuous Ambient Air Quality  
Monitoring Program  
Annual Summary for 2007

Operations and Data Collection by:  
West Central Airshed Society  
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:  
West Central Airshed Society  
Drayton Valley, Alberta



West Central Airshed Society  
P.O. Box 7421, Drayton Valley, Alberta T7A 1S6  
Ph: 780-514-3533 • Fax: 780-514-3563 • www.wcas.ca

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January 31, 2008

Hinton Pulp  
A Division of West Fraser Mills Ltd.  
Mr. Hercules Georgiadis  
760 Switzer Drive  
Hinton, Alberta  
T7V 1V7

Dear Mr. Georgiadis:

Re: Annual Ambient Air Quality Monitoring Report. January – December 2007.  
**For Hinton Pulp – A Division of West Fraser Mills Ltd.**

The West Central Airshed Society (WCAS) presents the 2007 Annual Report containing ambient air quality and meteorological information from the following site:

Network Station is                      AMS 906                      Hinton  
Identified as:

WCAS data collection and validation began January 1, 2004. The following is a list of the reported ambient air and meteorological parameters measured at the site location:

**AMS 906 (Hinton)**

TRS, Particulate Matter (10 microns), Wind Speed and Direction, Relative Humidity, and External Temperature.

If additional information is required please contact Patrick Andersen at (780) 514-3533 or (403) 505-1041.

Sincerely,

Patrick Andersen  
Environmental Specialist

**Hinton Pulp**  
**A Division of West Fraser Mills Limited**  
**Frequency Distribution Charts**  
**Wind Speed and Direction**  
**Year 2007**

West Central Airshed Society - Hinton (AMS 906)  
 Annual Summary for 2007  
 Percentage Frequency Distribution of Wind

Speed (kph)							
Direction	>1 to 5	>5 to 11	>11 to 19	>19 to 28	>28 to 38	>38	Totals
North	4.37	0.25	--	--	--	--	4.62
NorthEast	16.52	0.43	--	--	--	--	16.95
East	7.67	0.26	--	--	--	--	7.93
SouthEast	2.53	0.63	0.01	--	--	--	3.17
South	4.73	1.08	0.1	--	--	--	5.91
SouthWest	14.08	13.36	2.47	--	--	--	29.9
West	13.13	2.47	0.26	--	--	--	15.86
NorthWest	4.48	0.89	0.05	--	--	--	5.41
Totals	67.51	19.37	2.89	--	--	--	89.77

Percent Calm	10.23
Number of Data Values	8759
Hours in Time Period	8760

**Hinton Pulp**  
**A Division of West Fraser Mills Limited**  
**Frequency Distribution Charts**  
**Total Reduced Sulfur Monthly Averages**  
**Year 2007**

West Central Airshed Society - Hinton (AMS 906)  
 Annual Summary for 2007  
 TRS (ppb)

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Number 1-Hour Exceedances*	Maximum 24-Hour Value	Number 24-Hour Exceedances*	Percent of Data in each Concentration Range			
								<=3	>3-10	>10-50	>50
January	690	97.98	0.5	4.4	0	1.4	0	99.71	0.29	-	-
February	621	100	0.6	5	0	1.6	0	98.23	1.77	-	-
March	708	100	0.8	14.7	1	3	0	96.75	3.11	0.14	-
April	685	100	1	6	0	1.9	0	99.12	0.88	-	-
May	708	100	0.9	11.8	1	1.9	0	98.02	1.84	0.14	-
June	683	100	1.1	7.6	0	1.8	0	96.93	3.07	-	-
July	705	100	1.1	7.3	0	1.9	0	97.3	2.7	-	-
August	708	99.87	0.7	5.5	0	2	0	98.31	1.69	-	-
September	685	100	0.9	5.2	0	1.6	0	98.98	1.02	-	-
October	709	100	1.3	10.7	1	2.5	0	92.95	6.91	0.14	-
November	685	100	1.4	8.6	0	2.9	0	91.68	8.32	-	-
December	709	100	1.6	7.2	0	3.1	0	92.24	7.76	-	-

Year 2007	Annual Number of Data Hours	Annual Operational Time (%)	Annual Mean (ppb)	Annual Maximum 1-Hour Value (ppb)	Annual Number 1-Hour Exceedances*	Annual Maximum 24-Hour Value (ppb)	Annual Number 24-Hour Exceedances*	Annual Percent of Data in each Concentration Range			
								<=3	>3-10	>10-50	>50
	8296	99.82	1.0	14.7	3	3.1	0	96.66	3.3	0.04	-

\* Hours of TRS above 10 ppb H<sub>2</sub>S Hourly Average Guideline.

**Hinton Pulp**  
**A Division of West Fraser Mills Limited**  
**Frequency Distribution Charts**  
**PM<sub>10</sub> Monthly Averages**  
**Year 2007**

West Central Airshed Society - Hinton (AMS 906)

Annual Summary for 2007

PM10 ( $\mu\text{g}/\text{m}^3$ )

Month	Number of Data	Operational Time (%)	Mean	Maximum 1-Hour Value	Maximum 24-Hour Value
January	741	99.6	43.3	540.2	164.1
February	648	100	28.1	358.1	137.3
March	741	99.6	60.5	645	183.8
April	715	100	38.9	432.5	104
May	739	99.33	41.9	602	126.2
June	713	100	40.3	678.8	136.3
July	737	99.46	29.3	186.7	50
August	739	99.87	24.9	296.2	72.6
September	717	99.58	42.1	381.5	79.2
October	740	100	47.1	820	125.5
November	716	99.44	56.8	881.4	283.5
December	740	100	32	687	136.5

Year 2007	Annual Number of Data Hours	Annual Operational Time (%)	Annual Mean ( $\mu\text{g}/\text{m}^3$ )	Annual Maximum 1-Hour Value ( $\mu\text{g}/\text{m}^3$ )	Annual Maximum 24-Hour Value ( $\mu\text{g}/\text{m}^3$ )
	8686	99.74	40.5	881.4	283.5



**Hinton Pulp**  
**A Division of West Fraser Mills Limited**  
**Frequency Distribution Charts**  
**Meteorological Measurements**  
**Year 2007**

**Summary Report***Continuous air quality/meteorological monitoring measurements***West Central Airshed Society****Hinton Pulp / Hinton  
Station 906****January to December 2007**

Parameter	Calibration Hours	Number of Data	Percent Uptime	Mean	Min	Max	Percentile				
							P10	Q1	Median	Q3	P90
TRS (ppb)	448	8296	99.8	1.0	0.0	15.0	0.4	0.5	0.7	1.2	1.8
Particulate Matter 10 microns ( $\mu\text{m}^3$ )	51	8686	99.7	40.4	0.0	881.0	6.2	11.0	22.0	46.1	88.7
Wind Speed (kph)	0	8759	100.0	3.3	0.0	19.0	0.6	1.2	2.5	4.7	7.4
Temperature ( $^{\circ}\text{C}$ )	0	8759	100.0	3.9	-30.0	34.0	-4.8	-0.9	3.9	8.7	12.4
Relative Humidity (%)	0	8759	100.0	58.5	5.0	93.0	28.0	39.7	61.2	78.1	85.2
Std Dev Wind Direction (deg)	0	8759	100.0	50.3	0.0	104.0	31.2	38.0	46.9	60.2	76.8
Std Dev Wind Speed (kph)	0	8759	100.0	2.6	0.0	11.0	1.0	1.4	2.2	3.5	5.1