

US EPA ARCHIVE DOCUMENT

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

405028690 G & K Services - Green Bay
800 Isbell St
Green Bay

DNR Region: Northeast

County: Brown

SIC Code: 7218 -- INDUSTRIAL LAUNDERERS

NAICS Code: 812332 -- Industrial Launderers

Constr Date: 01/01/1980

Employees: 113

Area: 45537 ft2

UTM Zone: 16

UTM X: 412970 m

UTM Y: 4931000 m

Brian Duffy

Facility Air Management Contact

9529125713

5995 Opus Parkway, Suite 500

Minnetonka MN 55343

bduffy01@gkservices.com

Douglas Krysiak

Facility Billing Contact

9204972509

800 Isbell St.

Green Bay WI 54303

DKrysiak@gkservices.com

Douglas Krysiak

Facility Responsible Official

9204972509

800 Isbell St.

Green Bay WI 54303

DKrysiak@gkservices.com

RANDALL MATTY

DNR Emission Inventory Contact

9206625158

2984 SHAWANO AV

GREEN BAY WI 54313

randall.matty@wisconsin.gov

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

DEVICE AND PROCESS LIST

<u>DEVICE ID</u>	<u>DEVICE CODE</u>	<u>DEVICE NAME</u>	<u>DEVICE CATEGORY</u>
<u>> PROCESS ID</u>	<u>> PROCESS CODE</u>	<u>> PROCESS NAME</u>	<u>> PROCESS DESCRIPTION</u>
B10	BOILER	BOILER	Boiler/Furnace
--> 01	GENERIC	REPORT MCF NATURAL GAS BURNED	Generic Throughput Process
-----	-----	-----	-----
P01	GENERIC	INDUSTRIAL WASHERS (SOILED INDUSTRIAL TOWELS)	Miscellaneous
--> 03	GENERIC	REPORT POUNDS SOILED PRINT TOWELS LAUNDERED	Generic Throughput Process
--> 04	GENERIC	REPORT POUNDS SOILED SHOP TOWELS LAUNDERED	Generic Throughput Process
-----	-----	-----	-----
P02	GENERIC	SIX NATURAL GAS BURNING INDUSTRIAL DRYERS	Miscellaneous
--> 01	GENERIC	REPORT LINT AND DIRT EMISSIONS FROM DRYERS	Generic Throughput Process
--> 02	GENERIC	REPORT MCF OF NATURAL GAS USED	Generic Throughput Process
--> 03	GENERIC	REPORT POUNDS OF SOILED PRINT TOWELS DRIED	Generic Throughput Process
--> 04	GENERIC	REPORT POUNDS OF SOILED SHOP TOWELS DRIED	Generic Throughput Process
-----	-----	-----	-----

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

EMISSION FLOW SUMMARY

B10-01 (100%) --> S10-01 (100%) --> OUT

P01-03 (100%) --> OUT

P01-04 (100%) --> OUT

P02-01 (100%) --> OUT

P02-02 (100%) --> S02-02 (100%) --> OUT

P02-03 (100%) --> OUT

P02-04 (100%) --> OUT

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

DEVICES/PROCESSES DETAILS

B10 Boiler/Furnace Boiler

DEVICE DESC: BOILER

CONSTR DATE: 01/01/1980

DEVICE COMMENTS: Cleaver Brooks

MAX RATED CAPACITY: 10.46 MMBTU/HR

B10, Process 01

Generic Throughput
Process

PROCESS NAME: REPORT MCF NATURAL
GAS BURNED

SCC CODE: 10300603

PROCESS COMMENTS:

SCHEDULE: 24 Hrs/Day

5 Dys/Wk

260 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

ANNUAL TPUT: 17897 MCF

of Natural Gas

AVG TPUT: 2868.10897 FT3/HR

MAX TPUT: 10461 FT3/HR

--EMISSION FACTORS--

POLLUTANT	VALUE / UNIT	ORIGIN
AMMONIA	.49 LB / MMCF	EPA
ARSENIC	.0002 LB / MMCF	EPA
BARIUM	.0044 LB / MMCF	EPA
BENZ(A)ANTHR	.0000018 LB / MMCF	EPA
BENZENE	.0021 LB / MMCF	EPA
BENZO(A)PHEN	.0000018 LB / MMCF	EPA
BENZO(A)PYRE	.0000012 LB / MMCF	EPA
BENZO(B)FLUO	.0000018 LB / MMCF	EPA
BENZO(JK)FLE	.000003 LB / MMCF	EPA
BENZO(K)FLUO	.0000018 LB / MMCF	EPA
BERYLLIUM	.000012 LB / MMCF	EPA
CADMIUM	.0011 LB / MMCF	EPA
CHROMIUM MET	.0014 LB / MMCF	EPA
CO	84 LB / MMCF	DNR
CO2	120000 LB / MMCF	EPA
COBALT	.000084 LB / MMCF	EPA
COPPER	.00085 LB / MMCF	EPA
DIBENZAHAN	.0000012 LB / MMCF	EPA
FORMALDEHYDE	.075 LB / MMCF	EPA
HEXANE	1.8 LB / MMCF	EPA
INDN(123CDPY	.0000018 LB / MMCF	EPA
LEAD CMP	.0005 LB / MMCF	EPA
MANGANESE	.00038 LB / MMCF	EPA
MERCURY ALL	.00026 LB / MMCF	EPA
METHANE	2.3 LB / MMCF	EPA
MOLYBDENUM	.0011 LB / MMCF	EPA
NAPHTHALENE	.00061 LB / MMCF	EPA
NICKEL CMP	.0021 LB / MMCF	EPA
NITROUSOXIDE	2.2 LB / MMCF	EPA
NOX	100 LB / MMCF	DNR
PM	7.6 LB / MMCF	DNR
PM10	3 LB / MMCF	DNR
ROG	5.5 LB / MMCF	EPA
SELENIUM	.000024 LB / MMCF	EPA

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

SO2	.6 LB / MMCF	DNR
TOLUENE	.0034 LB / MMCF	EPA
VANADIUM	.0023 LB / MMCF	EPA

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438_THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
CO (c)	10000 LB	1,503.348 LB	1,503.348 LB	
NOX (c)	10000 LB	1,789.700 LB	1,789.700 LB	6.883 LB
PM (c)	10000 LB	136.017 LB	136.017 LB	
PM10 (c)	10000 LB	53.691 LB	53.691 LB	
ROG (c)	6000 LB	98.434 LB	98.434 LB	.379 LB
SO2 (c)	10000 LB	10.738 LB	10.738 LB	
AMMONIA (c) (s)	4097 LB	8.770 LB	8.770 LB	
ARSENIC (c) (fs)	.21 LB	.004 LB	.004 LB	
BARIUM (c) (s)	118 LB	.079 LB	.079 LB	
BENZ(A)ANTHR (c) (s)	8.08 LB	.000 LB	.000 LB	
BENZENE (c) (fs)	114 LB	.038 LB	.038 LB	
BENZO(A)PHEN (c)	12 LB	.000 LB	.000 LB	
BENZO(A)PYRE (c) (s)	.81 LB	.000 LB	.000 LB	
BENZO(B)FLUO (c) (s)	1.22 LB	.000 LB	.000 LB	
BENZO(JK)FLE (c)	12 LB	.000 LB	.000 LB	
BENZO(K)FLUO (c) (s)	1.22 LB	.000 LB	.000 LB	
BERYLLIUM (c) (fs)	.37 LB	.000 LB	.000 LB	
CADMIUM (c) (fs)	.49 LB	.020 LB	.020 LB	
CHROMIUM MET (c) (fs)	118 LB	.025 LB	.025 LB	
CO2 (c)	200000000 LB	2,147,640.000 LB	2,147,640.000 LB	
COBALT (c) (fs)	4.71 LB	.002 LB	.002 LB	
COPPER (c) (s)	235 LB	.015 LB	.015 LB	
DIBENZAHAN (c) (s)	.74 LB	.000 LB	.000 LB	
FORMALDEHYDE (c) (fs)	68.3 LB	1.342 LB	1.342 LB	
HEXANE (c) (fs)	6000 LB	32.215 LB	32.215 LB	
INDN(123CDPY (c) (s)	8.08 LB	.000 LB	.000 LB	
LEAD CMP (c) (f)	400 LB	.009 LB	.009 LB	
MANGANESE (c) (fs)	47.1 LB	.007 LB	.007 LB	
MERCURY ALL (c) (fs)	5.88 LB	.005 LB	.005 LB	
METHANE (c)	10000000 LB	41.163 LB	41.163 LB	
MOLYBDENUM (c) (s)	1176 LB	.020 LB	.020 LB	
NAPHTHALENE (c) (fs)	6000 LB	.011 LB	.011 LB	
NICKEL CMP (c) (fs)	3.42 LB	.038 LB	.038 LB	
NITROUSOXIDE (c) (s)	6000 LB	39.373 LB	39.373 LB	
SELENIUM (c) (fs)	47.1 LB	.000 LB	.000 LB	
TOLUENE (c) (fs)	6000 LB	.061 LB	.061 LB	
VANADIUM (c) (s)	11.8 LB	.041 LB	.041 LB	

--INCOMING STREAMS--

TPUT --> B10-01

--OUTGOING STREAMS--

B10-01 (100%) --> S10-01
(100%) --> OUT

P01

Miscellaneous

Any Device

DEVICE DESC: INDUSTRIAL WASHERS (SOILED INDUSTRIAL TOWELS)

CONSTR DATE: 01/01/1980

DEVICE COMMENTS: Process P18, P25, P34, P35, P36, P37, P38, P39 AND P40.

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

P01, Process 03**Generic Throughput
Process**

PROCESS NAME: REPORT POUNDS
SOILED PRINT TOWELS
LAUNDERED

SCC CODE: 30101401

PROCESS COMMENTS: POUNDS FROM 1/1/2012 -
12/31/2-012 (NEW
PERMIT, NEW EFS)

SCHEDULE: 24 Hrs/Day

5 Dys/Wk

260 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

ANNUAL TPUT: 836917 LB

of PRODUCT -
CHEMICAL

AVG TPUT: 134.12131 LB/HR

MAX TPUT: 2240 LB/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
DICHLORETH12	.01 LB / E3 LB	STK
ETHYLBENZENE	1.786 LB / E3 LB	STK
HEXANE	.067 LB / E3 LB	STK
ISOBENZ	.456 LB / E3 LB	STK
METH ISOBUT	.228 LB / E3 LB	STK
METHANOL	.532 LB / E3 LB	STK
METHYLENE CL	.048 LB / E3 LB	STK
NAPHTHALENE	.01 LB / E3 LB	STK
PERC	.133 LB / E3 LB	STK
ROG	121 LB / E3 LB	STK
TOLUENE	8.341 LB / E3 LB	STK
TRICHLORETHY	.238 LB / E3 LB	STK
XYLENES ISO	6.004 LB / E3 LB	STK

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438 THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
ROG (c)	6000 LB	101,266.957 LB	101,266.957 LB	389.488 LB
DICHLORETH12 (c) (fs)	34.2 LB	8.369 LB	8.369 LB	
ETHYLBENZENE (c) (fs)	6000 LB	1,494.734 LB	1,494.734 LB	
HEXANE (c) (fs)	6000 LB	56.073 LB	56.073 LB	
ISOBENZ (c) (fs)	6000 LB	381.634 LB	381.634 LB	
METH ISOBUT (c) (fs)	6000 LB	190.817 LB	190.817 LB	
METHANOL (c) (f)	6000 LB	445.240 LB	445.240 LB	
METHYLENE CL (c) (fs)	1890 LB	40.172 LB	40.172 LB	
NAPHTHALENE (c) (fs)	6000 LB	8.369 LB	8.369 LB	
PERC (c) (fs)	151 LB	111.310 LB	111.310 LB	
TOLUENE (c) (fs)	6000 LB	6,980.725 LB	6,980.725 LB	
TRICHLORETHY (c) (fs)	444 LB	199.186 LB	199.186 LB	
XYLENES ISO (c) (fs)	6000 LB	5,024.850 LB	5,024.850 LB	

--INCOMING STREAMS--

TPUT --> P01-03

--OUTGOING STREAMS--

P01-03 (100%) --> OUT

P01, Process 04**Generic Throughput
Process**

PROCESS NAME: REPORT POUNDS
SOILED SHOP TOWELS
LAUNDERED

SCC CODE: 30101401

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

PROCESS COMMENTS: POUNDS FROM 1/1/2012 -
12/31/2012 (NEW PERMIT,
NEW EFS)

SCHEDULE: 24 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE: Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT: 577803 LB	of PRODUCT - CHEMICAL		
AVG TPUT: 92.59663 LB/HR			
MAX TPUT: 7288 LB/HR			

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
DICHLORETH12	.028 LB / E3 LB	STK
ETHYLBENZENE	.049 LB / E3 LB	STK
HEXANE	.007 LB / E3 LB	STK
ISOBENZ	.007 LB / E3 LB	STK
METH ISOBUT	.042 LB / E3 LB	STK
METHANOL	.035 LB / E3 LB	STK
METHYLENE CL	.007 LB / E3 LB	STK
NAPHTHALENE	.007 LB / E3 LB	STK
PERC	1.225 LB / E3 LB	STK
ROG	8.4 LB / E3 LB	STK
TOLUENE	1.085 LB / E3 LB	STK
TRICHLORETHY	.147 LB / E3 LB	STK
XYLENES ISO	.546 LB / E3 LB	STK

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438 THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
ROG (c)	6000 LB	4,853.545 LB	4,853.545 LB	18.667 LB
DICHLORETH12 (c) (fs)	34.2 LB	16.178 LB	16.178 LB	
ETHYLBENZENE (c) (fs)	6000 LB	28.312 LB	28.312 LB	
HEXANE (c) (fs)	6000 LB	4.045 LB	4.045 LB	
ISOBENZ (c) (fs)	6000 LB	4.045 LB	4.045 LB	
METH ISOBUT (c) (fs)	6000 LB	24.268 LB	24.268 LB	
METHANOL (c) (f)	6000 LB	20.223 LB	20.223 LB	
METHYLENE CL (c) (fs)	1890 LB	4.045 LB	4.045 LB	
NAPHTHALENE (c) (fs)	6000 LB	4.045 LB	4.045 LB	
PERC (c) (fs)	151 LB	707.809 LB	707.809 LB	
TOLUENE (c) (fs)	6000 LB	626.916 LB	626.916 LB	
TRICHLORETHY (c) (fs)	444 LB	84.937 LB	84.937 LB	
XYLENES ISO (c) (fs)	6000 LB	315.480 LB	315.480 LB	

--INCOMING STREAMS--

TPUT --> P01-04

--OUTGOING STREAMS--

P01-04 (100%) --> OUT

P02

Miscellaneous

Any Device

DEVICE DESC: SIX NATURAL GAS BURNING INDUSTRIAL
DRYERS

CONSTR DATE: 01/01/1980

DEVICE COMMENTS: Process P05, P06, P08, P09, P30, and P31.

P02, Process 01

**Generic Throughput
Process**

PROCESS NAME: REPORT LINT AND DIRT
EMISSIONS FROM
DRYERS

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

SCC CODE: 30200504
PROCESS COMMENTS: LINT EMISSIONS FOR CY 2012

SCHEDULE: 24 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE: Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT: 2.9 TON	of PRODUCT - AGRICULTURE		
AVG TPUT: .00046 TON/HR			
MAX TPUT: .0037 TON/HR			

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
PM	1 LB / LB	STK
PM10	1 LB / LB	STK

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438 THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
PM (c)	10000 LB	5,800.000 LB	5,800.000 LB	
PM10 (c)	10000 LB	5,800.000 LB	5,800.000 LB	

--INCOMING STREAMS--

TPUT --> P02-01

--OUTGOING STREAMS--

P02-01 (100%) --> OUT

P02, Process 02**Generic Throughput Process**

PROCESS NAME: REPORT MCF OF NATURAL GAS USED

SCC CODE: 30190003

PROCESS COMMENTS: NATURAL GAS USAGE FOR ALL DRYERS FOR CY 2012

SCHEDULE: 24 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE: Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
ANNUAL TPUT: 12794 MCF	of Natural Gas		
AVG TPUT: 2050.32051 FT3/HR			
MAX TPUT: 13000 FT3/HR			

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
CO	20 LB / MMCF	DNR
NOX	140 LB / MMCF	EPA
PM	3 LB / MMCF	EPA
PM10	3 LB / MMCF	EPA
ROG	5.3 LB / MMCF	DNR
SO2	.6 LB / MMCF	EPA

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438 THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
CO (c)	10000 LB	255.880 LB	255.880 LB	
NOX (c)	10000 LB	1,791.160 LB	1,791.160 LB	6.889 LB
PM (c)	10000 LB	38.382 LB	38.382 LB	
PM10 (c)	10000 LB	38.382 LB	38.382 LB	
ROG (c)	6000 LB	67.808 LB	67.808 LB	.261 LB
SO2 (c)	10000 LB	7.676 LB	7.676 LB	

--INCOMING STREAMS--

TPUT --> P02-02

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

--OUTGOING STREAMS--

P02-02 (100%) --> S02-02
(100%) --> OUT

P02, Process 03**Generic Throughput
Process**

PROCESS NAME: REPORT POUNDS OF
SOILED PRINT TOWELS
DRIED

SCC CODE: 30101401

PROCESS COMMENTS: POUNDS FROM 1/1/2012-
12/31/2012 (NEW PERMIT,
NEW EFS)

SCHEDULE: 24 Hrs/Day

5 Dys/Wk

260 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

ANNUAL TPUT: 836917 LB

of PRODUCT -
CHEMICAL

AVG TPUT: 134.12131 LB/HR

MAX TPUT: 5450 LB/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
DICHLORETH12	.001 LB / E3 LB	STK
ETHYLBENZENE	.094 LB / E3 LB	STK
HEXANE	.004 LB / E3 LB	STK
ISOBENZ	.024 LB / E3 LB	STK
METH ISOBUT	.012 LB / E3 LB	STK
METHANOL	.028 LB / E3 LB	STK
METHYLENE CL	.003 LB / E3 LB	STK
NAPHTHALENE	.001 LB / E3 LB	STK
PERC	.007 LB / E3 LB	STK
ROG	7 LB / E3 LB	STK
TOLUENE	.439 LB / E3 LB	STK
TRICHLORETHY	.013 LB / E3 LB	STK
XYLENES ISO	.316 LB / E3 LB	STK

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438 THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
ROG (c)	6000 LB	5,858.419 LB	5,858.419 LB	22.532 LB
DICHLORETH12 (c) (fs)	34.2 LB	.837 LB	.837 LB	
ETHYLBENZENE (c) (fs)	6000 LB	78.670 LB	78.670 LB	
HEXANE (c) (fs)	6000 LB	3.348 LB	3.348 LB	
ISOBENZ (c) (fs)	6000 LB	20.086 LB	20.086 LB	
METH ISOBUT (c) (fs)	6000 LB	10.043 LB	10.043 LB	
METHANOL (c) (f)	6000 LB	23.434 LB	23.434 LB	
METHYLENE CL (c) (fs)	1890 LB	2.511 LB	2.511 LB	
NAPHTHALENE (c) (fs)	6000 LB	.837 LB	.837 LB	
PERC (c) (fs)	151 LB	5.858 LB	5.858 LB	
TOLUENE (c) (fs)	6000 LB	367.407 LB	367.407 LB	
TRICHLORETHY (c) (fs)	444 LB	10.880 LB	10.880 LB	
XYLENES ISO (c) (fs)	6000 LB	264.466 LB	264.466 LB	

--INCOMING STREAMS--

TPUT --> P02-03

--OUTGOING STREAMS--

P02-03 (100%) --> OUT

P02, Process 04**Generic Throughput
Process**

US EPA ARCHIVE DOCUMENT

FINAL

**State of Wisconsin Department of Natural Resources
Bureau of Air Management**

FID: 405028690

PROCESS NAME: REPORT POUNDS OF
SOILED SHOP TOWELS
DRIED

SCC CODE: 30101401

PROCESS COMMENTS: POUNDS FROM 1/1/2012 -
12/31/2012 (NEW PERMIT,
NEW EFS)

SCHEDULE: 24 Hrs/Day

5 Dys/Wk

260 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

ANNUAL TPUT: 577803 LB

of PRODUCT -
CHEMICAL

AVG TPUT: 92.59663 LB/HR

MAX TPUT: 5128 LB/HR

--EMISSION FACTORS--

<u>POLLUTANT</u>	<u>VALUE / UNIT</u>	<u>ORIGIN</u>
DICHLORETH12	.012 LB / E3 LB	STK
ETHYLBENZENE	.021 LB / E3 LB	STK
HEXANE	.003 LB / E3 LB	STK
ISOBENZ	.003 LB / E3 LB	STK
METH ISOBUT	.018 LB / E3 LB	STK
METHANOL	.015 LB / E3 LB	STK
METHYLENE CL	.003 LB / E3 LB	STK
NAPHTHALENE	.003 LB / E3 LB	STK
PERC	.525 LB / E3 LB	STK
ROG	3.6 LB / E3 LB	STK
TOLUENE	.465 LB / E3 LB	STK
TRICHLORETHY	.063 LB / E3 LB	STK
XYLENES ISO	.234 LB / E3 LB	STK

--EMISSIONS / YR--

<u>POLLUTANT</u>	<u>NR438_THRESH</u>	<u>UNCNTRLD</u>	<u>CNTRLD</u>	<u>OZONE/DY</u>
ROG (c)	6000 LB	2,080.091 LB	2,080.091 LB	8.000 LB
DICHLORETH12 (c) (fs)	34.2 LB	6.934 LB	6.934 LB	
ETHYLBENZENE (c) (fs)	6000 LB	12.134 LB	12.134 LB	
HEXANE (c) (fs)	6000 LB	1.733 LB	1.733 LB	
ISOBENZ (c) (fs)	6000 LB	1.733 LB	1.733 LB	
METH ISOBUT (c) (fs)	6000 LB	10.400 LB	10.400 LB	
METHANOL (c) (f)	6000 LB	8.667 LB	8.667 LB	
METHYLENE CL (c) (fs)	1890 LB	1.733 LB	1.733 LB	
NAPHTHALENE (c) (fs)	6000 LB	1.733 LB	1.733 LB	
PERC (c) (fs)	151 LB	303.347 LB	303.347 LB	
TOLUENE (c) (fs)	6000 LB	268.678 LB	268.678 LB	
TRICHLORETHY (c) (fs)	444 LB	36.402 LB	36.402 LB	
XYLENES ISO (c) (fs)	6000 LB	135.206 LB	135.206 LB	

--INCOMING STREAMS--

TPUT --> P02-04

--OUTGOING STREAMS--

P02-04 (100%) --> OUT

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

S01

Stack

Stack

DEVICE DESC: ONE STACK SERVING FOUR INDUSTRIAL
WASHERS (Process P18, P25, P34, and P35)
exhausts consist of PVC pipe manifolded into stack
S34

CONSTR DATE: 01/01/1980

DEVICE COMMENTS:

STACK HEIGHT: 13.41 m

or 44 ft

STACK DIAMETER: .43 m

or 1.41 ft

STACK TEMP: 733.6 K

or 860.81 F

STACK VELOCITY: 1 m/s

or 3.28 ft/s

S01, Process 01

**Releasing/Discharging
material to the
atmosphere**

PROCESS NAME: STACK FOR FOUR
VENTED WASHERS

PROCESS COMMENTS: 4 INDUSTRIAL WASHERS
(P18, P25, P34, and P35)
exhaust consists of pipe
manifolded into stack S34

SCHEDULE: 24 Hrs/Day

5 Dys/Wk

260 Dys/Yr

QTRLY SCHEDULE: Q1: 25%

Q2: 25%

Q3: 25%

Q4: 25%

--INCOMING STREAMS--

P01-01 (100%) --> S01-01

--OUTGOING STREAMS--

S01-01 (100%) --> OUT

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

S02	Stack	Stack
DEVICE DESC: SIX STACKS FOR SIX INDUSTRIAL DRYERS		
CONSTR DATE: 01/01/1980		
DEVICE COMMENTS:		
STACK HEIGHT: 13.44 m		or 44.09 ft
STACK DIAMETER: .61 m		or 2 ft
STACK TEMP: 316.4 K		or 109.85 F
STACK VELOCITY: 11.91 m/s		or 39.07 ft/s

S02, Process 02		Releasing/Discharging material to the atmosphere			
PROCESS NAME:		SIX STACKS FOR INDUSTRIAL DRYERS			
PROCESS COMMENTS:		SIX INDIVIDUAL DRYER STACKS,			
SCHEDULE:		24 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE:		Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
--INCOMING STREAMS--					
P02-02 (100%) --> S02-02					
--OUTGOING STREAMS--					
S02-02 (100%) --> OUT					

S10	Stack	Stack
DEVICE DESC: BOILER STACK		
CONSTR DATE: 01/01/1980		
DEVICE COMMENTS:		
STACK HEIGHT: 10.26 m		or 33.66 ft
STACK DIAMETER: .51 m		or 1.67 ft
STACK TEMP: 545.8 K		or 522.77 F
STACK VELOCITY: 1 m/s		or 3.28 ft/s

S10, Process 01		Releasing/Discharging material to the atmosphere			
PROCESS NAME:		BOILER STACK			
PROCESS COMMENTS:		Stack S01			
SCHEDULE:		24 Hrs/Day	5 Dys/Wk	260 Dys/Yr	
QTRLY SCHEDULE:		Q1: 25%	Q2: 25%	Q3: 25%	Q4: 25%
--INCOMING STREAMS--					
B10-01 (100%) --> S10-01					
--OUTGOING STREAMS--					
S10-01 (100%) --> OUT					

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

FACILITY EMISSIONS SUMMARY

--2012 SUMMARY--	--2012--	--2012--	--2012--	--2012--
--POLLUTANT--	--NR438 THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	1,759.22800 LB	1,759.22800 LB	
NOX	10000 LB	3,580.86000 LB	3,580.86000 LB	13.77254 LB
PM	10000 LB	5,974.39920 LB	5,974.39920 LB	
PM10	10000 LB	5,892.07300 LB	5,892.07300 LB	
ROG	6000 LB	114,225.25370 LB	114,225.25370 LB	439.32790 LB
SO2	10000 LB	18.41460 LB	18.41460 LB	
AMMONIA (s)	4097 LB	8.76953 LB	8.76953 LB	
ARSENIC (fs)	.21 LB	.00358 LB	.00358 LB	
BARIUM (s)	118 LB	.07875 LB	.07875 LB	
BENZ(A)ANTHR (s)	8.08 LB	.00003 LB	.00003 LB	
BENZENE (fs)	114 LB	.03758 LB	.03758 LB	
BENZO(A)PHEN	12 LB	.00003 LB	.00003 LB	
BENZO(A)PYRE (s)	.81 LB	.00002 LB	.00002 LB	
BENZO(B)FLUO (s)	1.22 LB	.00003 LB	.00003 LB	
BENZO(JK)FLE	12 LB	.00005 LB	.00005 LB	
BENZO(K)FLUO (s)	1.22 LB	.00003 LB	.00003 LB	
BERYLLIUM (fs)	.37 LB	.00021 LB	.00021 LB	
CADMIUM (fs)	.49 LB	.01969 LB	.01969 LB	
CHROMIUM MET (fs)	118 LB	.02506 LB	.02506 LB	
CO2	200000000 LB	2,147,640.00000 LB	2,147,640.00000 LB	
COBALT (fs)	4.71 LB	.00150 LB	.00150 LB	
COPPER (s)	235 LB	.01521 LB	.01521 LB	
DIBENZAHAH (s)	.74 LB	.00002 LB	.00002 LB	
DICHLORETH12 (fs)	34.2 LB	32.31821 LB	32.31821 LB	
ETHYLBENZENE (fs)	6000 LB	1,613.85017 LB	1,613.85017 LB	
FORMALDEHYDE (fs)	68.3 LB	1.34228 LB	1.34228 LB	
HEXANE (fs)	6000 LB	97.41374 LB	97.41374 LB	
INDN(123CDPY (s)	8.08 LB	.00003 LB	.00003 LB	
ISOBENZ (fs)	6000 LB	407.49819 LB	407.49819 LB	
LEAD CMP (f)	400 LB	.00895 LB	.00895 LB	
MANGANESE (fs)	47.1 LB	.00680 LB	.00680 LB	
MERCURY ALL (fs)	5.88 LB	.00465 LB	.00465 LB	
METH ISOBUT (fs)	6000 LB	235.52826 LB	235.52826 LB	
METHANE	10000000 LB	41.16310 LB	41.16310 LB	
METHANOL (f)	6000 LB	497.56368 LB	497.56368 LB	
METHYLENE CL (fs)	1890 LB	48.46080 LB	48.46080 LB	
MOLYBDENUM (s)	1176 LB	.01969 LB	.01969 LB	
NAPHTHALENE (fs)	6000 LB	14.99504 LB	14.99504 LB	
NICKEL CMP (fs)	3.42 LB	.03758 LB	.03758 LB	
NITROUSOXIDE (s)	6000 LB	39.37340 LB	39.37340 LB	
PERC (fs)	151 LB	1,128.32364 LB	1,128.32364 LB	
SELENIUM (fs)	47.1 LB	.00043 LB	.00043 LB	
TOLUENE (fs)	6000 LB	8,243.78677 LB	8,243.78677 LB	

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

TRICHLORETHY (fs)	444 LB	331.40480 LB	331.40480 LB
VANADIUM (s)	11.8 LB	.04116 LB	.04116 LB
XYLENES ISO (fs)	6000 LB	5,740.00178 LB	5,740.00178 LB

--2011 SUMMARY--	--2011--	--2011--	--2011--	--2011--
--POLLUTANT--	--NR438 THRESH--	--UNCNTRLD/YR--	--CNTRLD/YR--	--OZONE/DY--
CO	10000 LB	2,056.97200 LB	2,056.97200 LB	
NOX	10000 LB	3,937.06000 LB	3,937.06000 LB	15.14253 LB
PM	10000 LB	5,321.35580 LB	5,321.35580 LB	
PM10	10000 LB	5,222.74100 LB	5,222.74100 LB	
ROG	6000 LB	153,268.61120 LB	153,268.61120 LB	472.86414 LB
SO2	10000 LB	20.54820 LB	20.54820 LB	
AMMONIA(S)	4097 LB	10.50462 LB	10.50462 LB	
ARSENIC(FS)	.21 LB	.00429 LB	.00429 LB	
BARIUM(S)	118 LB	.09433 LB	.09433 LB	
BENZ(A)ANTHR(S)	8.08 LB	.00004 LB	.00004 LB	
BENZENE(FS)	114 LB	.04502 LB	.04502 LB	
BENZO(A)PHEN	12 LB	.00004 LB	.00004 LB	
BENZO(A)PYRE(S)	.81 LB	.00003 LB	.00003 LB	
BENZO(B)FLUO(S)	1.22 LB	.00004 LB	.00004 LB	
BENZO(JK)FLE	12 LB	.00006 LB	.00006 LB	
BENZO(K)FLUO(S)	1.22 LB	.00004 LB	.00004 LB	
BERYLLIUM(FS)	.37 LB	.00026 LB	.00026 LB	
CADMIUM(FS)	.49 LB	.02358 LB	.02358 LB	
CHROMIUM MET (FS)	118 LB	.03001 LB	.03001 LB	
CO2	200000000 LB	2,572,560.00000 LB	2,572,560.00000 LB	
COBALT(FS)	4.71 LB	.00180 LB	.00180 LB	
COPPER(S)	235 LB	.01822 LB	.01822 LB	
DIBENZAHA(S)	.74 LB	.00003 LB	.00003 LB	
DICHLORETH12 (FS)	34.2 LB	19.15660 LB	19.15660 LB	
ETHYLBENZENE (FS)	6000 LB	1,276.45421 LB	1,276.45421 LB	
FORMALDEHYDE (FS)	68.3 LB	1.60785 LB	1.60785 LB	
HEXANE(FS)	6000 LB	81.50596 LB	81.50596 LB	
INDN(123CDPY(S)	8.08 LB	.00004 LB	.00004 LB	
ISOBENZ(FS)	6000 LB	341.69207 LB	341.69206 LB	
LEAD CMP(F)	400 LB	.01072 LB	.01072 LB	
MANGANESE(FS)	47.1 LB	.00815 LB	.00815 LB	
MERCURY ALL (FS)	5.88 LB	.00557 LB	.00557 LB	
METH ISOBUT(FS)	6000 LB	153.59496 LB	153.59496 LB	
METHANE	10000000 LB	49.30740 LB	49.30740 LB	
METHANOL(F)	6000 LB	329.11268 LB	329.11268 LB	
METHYLENE CL (FS)	1890 LB	31.74439 LB	31.74440 LB	
MOLYBDENUM(S)	1176 LB	.02358 LB	.02358 LB	
NAPHTHALENE (FS)	6000 LB	207.90287 LB	207.90286 LB	
NICKEL CMP(FS)	3.42 LB	.04502 LB	.04502 LB	
NITROUSOXIDE (S)	6000 LB	47.16360 LB	47.16360 LB	

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

PERC(FS)	151 LB	921.59046 LB	921.59046 LB
SELENIUM(FS)	47.1 LB	.00051 LB	.00051 LB
TOLUENE(FS)	6000 LB	6,271.00313 LB	6,271.00313 LB
TRICHLORETHY (FS)	444 LB	208.53279 LB	208.53280 LB
TRIMETHBENZE (S)	6000 LB	13,672.22303 LB	13,672.22303 LB
VANADIUM(S)	11.8 LB	.04931 LB	.04931 LB
XYLENES ISO(FS)	6000 LB	5,123.79837 LB	5,123.79837 LB

FINAL

State of Wisconsin Department of Natural Resources
Bureau of Air Management

FID: 405028690

REPORT LEGEND

--EMISSIONS--

c = Calculated; r = Reported

f = Federal Hap; s = State Hap; fs = Fed and State Hap