

**Scenario: W\_R2**



Emission Rate Calculations for Modeling

		before RC		after RC		before RC		After RC-CFM only								Total	
Source		B01	B24	B25	B11current	B11	B38current	B38	B08	B10	B32	B33	B34	B35	C79	C80	Total
Type		Furnace	Furnace	Furnace	FH	FH	FH	FH	RE1	RE2	RE2	RE1	RE2	RE2	RE1	RE1	
Current Base Case Emission Rate (g/s)		3.55E-05			1.51E-04		3.32E-05		2.05E-06	2.39E-06	2.39E-06		2.39E-06	2.39E-06	2.04E-06	2.04E-06	2.35E-04
Uncertainty = 1.15		2016 Base RC Emission Rate (g/s) with Uncertainty Factor applied															
2016 Base RC Emission Rate (g/s) with Uncertainty Factor applied			2.04E-05	2.04E-05		8.66E-05		3.82E-05		1.37E-06	1.37E-06	2.36E-06	1.37E-06	1.37E-06	2.34E-06	2.34E-06	1.78E-04
Combination ID	Option Description	B01	B24	B25	B11	B11	B38current	B38	B08	B10	B32	B33	B34	B35	C79	C80	Total
W_R1	Facility reconfiguration + Scrubber system on forehearth stack (6,7,8, or 9)	Description of Reduction Component															
		Individual Reduction Description															
		Reduction Efficiency															
		Additional Reduction Efficiency															
		Comments															
		Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	Source ER (g/s)	TotalER (g/s)
			2.04E-05	2.04E-05				9.98E-05		1.37E-06	1.37E-06	2.36E-06	1.37E-06	1.37E-06	2.34E-06	2.34E-06	1.53E-04

Annual Hexavalent Chromium Results  
 Technical Benchmarking Option W - 5 year data set

Run (tab) Name:	Ann_Opt_W_R1_Metryr1	Ann_Opt_W_R1_Metryr2	Ann_Opt_W_R1_Metryr3	Ann_Opt_W_R1_Metryr4	Ann_Opt_W_R1_Metryr5	
Run Description:	Option W_R1, Reg 419 grid, Site Specific Met (2009)	Option W_R1, Reg 419 grid, Site Specific Met (2010)	Option W_R1, Reg 419 grid, Site Specific Met (2011)	Option W_R1, Reg 419 grid, Site Specific Met (2012)	Option W_R1, Reg 419 grid, Site Specific Met (2013)	<b>MAX</b>
Result Units:		<b>ng/m3</b>	<b>ng/m3</b>	<b>ng/m3</b>	<b>ng/m3</b>	<b>ng/m3</b>
ALL	3.47727	3.90482	3.47507	3.60993	3.78339	3.90482
B10	0.07817	0.08024	0.08048	0.08142	0.0804	0.08142
B32	0.15957	0.16941	0.15737	0.16204	0.16045	0.16941
B34	0.11866	0.13496	0.11519	0.12199	0.11932	0.13496
B35	0.11847	0.13671	0.11524	0.12361	0.11854	0.13671
C79	0.08277	0.10893	0.07708	0.08782	0.08021	0.10893
C80	0.07892	0.1091	0.07271	0.08492	0.07221	0.1091
B38	2.43431	2.67592	2.46526	2.63821	2.79467	2.79467
B24	0.23591	0.23253	0.24181	0.22825	0.25149	0.25149
B25	0.16159	0.17259	0.16251	0.15383	0.1691	0.17259
B33	0.08734	0.11193	0.07987	0.08701	0.08128	0.11193
FURNACE	0.3975	0.40512	0.40432	0.38208	0.42059	0.42059
FOREHEAR	2.43431	2.67592	2.46526	2.63821	2.79467	2.79467
GENEXHTS	0.70001	0.82378	0.67353	0.72305	0.69364	0.82378

Run Description:	Option W_R1, Reg 419 grid, Site Specific Met (2009)	Option W_R1, Reg 419 grid, Site Specific Met (2010)	Option W_R1, Reg 419 grid, Site Specific Met (2011)	Option W_R1, Reg 419 grid, Site Specific Met (2012)	Option W_R1, Reg 419 grid, Site Specific Met (2013)	<b>MAX</b>
Result Units:	<b>ug/m3</b>	<b>ug/m3</b>	<b>ug/m3</b>	<b>ug/m3</b>	<b>ug/m3</b>	<b>ug/m3</b>
ALL	0.00347727	0.00390482	0.00347507	0.00360993	0.00378339	0.003905
B10	0.00007817	0.00008024	0.00008048	0.00008142	0.0000804	8.14E-05
B32	0.00015957	0.00016941	0.00015737	0.00016204	0.00016045	0.000169
B34	0.00011866	0.00013496	0.00011519	0.00012199	0.00011932	0.000135
B35	0.00011847	0.00013671	0.00011524	0.00012361	0.00011854	0.000137
C79	0.00008277	0.00010893	0.00007708	0.00008782	0.00008021	0.000109
C80	0.00007892	0.0001091	0.00007271	0.00008492	0.00007221	0.000109
B38	0.00243431	0.00267592	0.00246526	0.00263821	0.00279467	0.002795
B24	0.00023591	0.00023253	0.00024181	0.00022825	0.00025149	0.000251
B25	0.00016159	0.00017259	0.00016251	0.00015383	0.0001691	0.000173
B33	0.00008734	0.00011193	0.00007987	0.00008701	0.00008128	0.000112
FURNACE	0.0003975	0.00040512	0.00040432	0.00038208	0.00042059	0.000421
FOREHEAR	0.00243431	0.00267592	0.00246526	0.00263821	0.00279467	0.002795
GENEXHTS	0.00070001	0.00082378	0.00067353	0.00072305	0.00069364	0.000824

# Source Pathway - Source Inputs

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## Point Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp. [K]	Gas Exit Velocity [m/s]	Stack Inside Diameter [m]
POINT	B10	562030.25	4821525.28	312.00	14.45	1.37E-6	321.90	12.10	1.24
		General Exhaust Above T107B F/H							
POINT	B32	562047.16	4821528.02	312.00	14.48	1.37E-6	321.90	19.19	1.24
		General Exhaust Above T106							
POINT	B34	562039.70	4821535.65	312.00	14.48	1.37E-6	321.90	19.19	1.24
		General Exhaust Above T107A F/H							
POINT	B35	562047.03	4821543.82	312.00	14.48	1.37E-6	321.90	19.19	1.24
		General Exhaust Above CFM Main Channel							
POINT	C79	562023.15	4821559.58	312.00	11.64	2.34E-6	310.80	9.59	1.41
		General Exhaust West CFM F/H							
POINT	C80	562028.25	4821564.97	312.00	11.64	2.34E-6	310.80	9.59	1.41
		General Exhaust East CFM F/H							
POINT	B38	562043.48	4821544.79	312.00	16.46	0.00010	379.00	5.43	0.75
		105 Forehearth Stack							
POINT	B33	562055.21	4821536.35	312.00	14.48	2.36E-6	321.90	12.59	1.22
		Gen Exhaust Above T105							
POINT	B24	562052.59	4821531.65	312.00	27.77	0.00002	597.00	5.89	0.53
		105 Furnace Stack							
POINT	B25	562057.67	4821536.90	312.00	27.77	0.00002	597.00	5.89	0.53
		105 Furnace Stack							

## Volume Sources

No Volume Sources Specified

## Area Sources

No Area Sources Specified

# Source Pathway - Source Inputs

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## Open Pit Sources

No Open Pit Sources Specified

## Circular Area Sources

No Circular Area Sources Specified

## Polygon Area Sources

No Polygon Area Sources Specified

## Flare Sources

No Flare Sources Specified

## Line Sources

No Line Sources Specified

## Line Volume Sources

No Line Volume Sources Specified

## Line Area Sources

No Line Area Sources Specified







															Ann_Opt_W_R2_Metyr2			
09 01 01	1 06	-3.2	0.067	-9.000	-9.000	-999.	41.	8.1	0.50	0.55	1.00	1.00	222.	10.0	254.8	2.0		
09 01 01	1 07	-9.5	0.113	-9.000	-9.000	-999.	91.	13.2	0.70	0.55	1.00	1.50	145.	10.0	255.9	2.0		
09 01 01	1 08	-8.5	0.109	-9.000	-9.000	-999.	86.	13.0	0.63	0.50	1.00	1.50	243.	10.0	257.5	2.0		
09 01 01	1 09	-6.0	0.107	-9.000	-9.000	-999.	84.	17.8	0.61	0.95	0.76	1.50	127.	10.0	258.1	2.0		
09 01 01	1 10	-1.6	0.057	-9.000	-9.000	-999.	33.	9.9	0.30	0.95	0.66	1.00	121.	10.0	263.8	2.0		
09 01 01	1 11	13.2	0.424	0.253	0.009	42.	662.	-499.8	0.50	0.55	0.54	3.10	224.	10.0	264.2	2.0		
09 01 01	1 12	19.8	0.428	0.402	0.008	114.	671.	-342.9	0.50	0.55	0.51	3.10	196.	10.0	265.4	2.0		
09 01 01	1 13	22.9	0.367	0.559	0.011	265.	536.	-187.8	0.50	0.55	0.51	2.60	203.	10.0	265.4	2.0		
09 01 01	1 14	2.1	0.468	0.256	0.007	275.	768.	-4237.3	0.70	0.55	0.48	3.10	179.	10.0	265.9	2.0		
09 01 01	1 15	-4.6	0.538	-9.000	-9.000	-999.	946.	2954.8	0.70	0.55	0.51	3.60	162.	10.0	265.4	2.0		
09 01 01	1 16	-20.2	0.526	-9.000	-9.000	-999.	915.	625.4	0.70	0.55	0.59	3.60	164.	10.0	265.9	2.0		
09 01 01	1 17	-33.2	0.401	-9.000	-9.000	-999.	622.	168.7	0.61	0.95	0.82	3.10	141.	10.0	265.9	2.0		
09 01 01	1 18	-28.3	0.491	-9.000	-9.000	-999.	824.	362.7	0.61	0.95	1.00	3.60	137.	10.0	265.9	2.0		
09 01 01	1 19	-53.3	0.464	-9.000	-9.000	-999.	760.	163.0	0.61	0.95	1.00	3.60	134.	10.0	265.9	2.0		
09 01 01	1 20	-60.2	0.545	-9.000	-9.000	-999.	964.	233.5	0.61	0.95	1.00	4.10	127.	10.0	265.4	2.0		
09 01 01	1 21	-44.8	0.474	-9.000	-9.000	-999.	788.	206.2	0.61	0.95	1.00	3.60	130.	10.0	265.9	2.0		
09 01 01	1 22	-61.4	0.544	-9.000	-9.000	-999.	961.	227.6	0.61	0.95	1.00	4.10	132.	10.0	266.4	2.0		
09 01 01	1 23	-53.4	0.464	-9.000	-9.000	-999.	764.	162.3	0.61	0.95	1.00	3.60	140.	10.0	266.4	2.0		
09 01 01	1 24	-21.2	0.225	-9.000	-9.000	-999.	318.	46.9	0.70	0.55	1.00	2.10	160.	10.0	267.0	2.0		

First hour of profile data  
 YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
 09 01 01 01 10.0 1 291. 1.50 258.2 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)  
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\*\*MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA  
 \*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS \*\*\*  
 \*\* CONC OF HCR IN NANOGRAMS/M3 \*\*

GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
FURNACE	1ST HIGHEST VALUE IS	2.04661	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	2.04661	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	1.72434	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	1.72434	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	1.65046	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	1.65046	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	1.43889	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	1.32402	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	1.27844	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.97929	AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC	
FOREHEAR	1ST HIGHEST VALUE IS	12.15557	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	12.15557	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	10.44240	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	10.44240	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	9.17001	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	

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6TH HIGHEST VALUE IS	9.17001 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	8.37103 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	8.18011 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	7.36219 AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	6.05530 AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC

GENEXHTS 1ST HIGHEST VALUE IS	1.00748 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
2ND HIGHEST VALUE IS	1.00748 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
3RD HIGHEST VALUE IS	0.86604 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	0.86604 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	0.81555 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	0.81555 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	0.69066 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	0.65026 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	0.62638 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	0.62638 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC

B10 1ST HIGHEST VALUE IS	0.08024 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
2ND HIGHEST VALUE IS	0.08024 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
3RD HIGHEST VALUE IS	0.05750 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
4TH HIGHEST VALUE IS	0.05750 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
5TH HIGHEST VALUE IS	0.05426 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
6TH HIGHEST VALUE IS	0.05426 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
7TH HIGHEST VALUE IS	0.05358 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	0.05358 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	0.05274 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	0.05274 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC

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\*\*MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS \*\*\*

\*\* CONC OF HCR IN NANOGRAMS/M3 \*\*

GROUP ID	AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
B24	1ST HIGHEST VALUE IS	1.05854 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	1.05854 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.92257 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.92257 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.85389 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.85389 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.72997 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.69230 AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.63497 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.52969 AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC
B25	1ST HIGHEST VALUE IS	0.98808 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.98808 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.80177 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.80177 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC

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5TH HIGHEST VALUE IS 0.79658 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 0.79658 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.70892 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.68905 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.58614 AT ( 562085.76, 4821532.01, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.50560 AT ( 562105.76, 4821512.01, 311.00, 311.00, 0.00) DC

B32 1ST HIGHEST VALUE IS 0.16941 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 2ND HIGHEST VALUE IS 0.16941 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 3RD HIGHEST VALUE IS 0.15283 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 4TH HIGHEST VALUE IS 0.15283 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.13784 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 0.13784 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.12654 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.12654 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.08876 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.08785 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00) DC

B33 1ST HIGHEST VALUE IS 0.29562 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 2ND HIGHEST VALUE IS 0.29562 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 3RD HIGHEST VALUE IS 0.25393 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 4TH HIGHEST VALUE IS 0.25393 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.23387 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 0.23387 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.20783 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.18964 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.16851 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.16851 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC

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\*\*MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS \*\*\*

\*\* CONC OF HCR IN NANOGRAMS/M3 \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
B34	1ST HIGHEST VALUE IS 0.13496 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.13496 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.11600 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.11600 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.11206 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.11206 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.09289 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.09289 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.08457 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.08300 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
B35	1ST HIGHEST VALUE IS 0.13671 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.13671 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.11417 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		

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4TH HIGHEST VALUE IS 0. 11417 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00) DC  
 5TH HIGHEST VALUE IS 0. 10835 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 6TH HIGHEST VALUE IS 0. 10835 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 7TH HIGHEST VALUE IS 0. 09148 AT ( 562065. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 8TH HIGHEST VALUE IS 0. 08925 AT ( 562085. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 9TH HIGHEST VALUE IS 0. 08202 AT ( 562085. 76, 4821532. 01, 311. 00, 311. 00, 0. 00) DC  
 10TH HIGHEST VALUE IS 0. 06283 AT ( 562077. 84, 4821540. 29, 311. 01, 311. 01, 0. 00) DC

B38 1ST HIGHEST VALUE IS 12. 15557 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00) DC  
 2ND HIGHEST VALUE IS 12. 15557 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00) DC  
 3RD HIGHEST VALUE IS 10. 44240 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00) DC  
 4TH HIGHEST VALUE IS 10. 44240 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00) DC  
 5TH HIGHEST VALUE IS 9. 17001 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 6TH HIGHEST VALUE IS 9. 17001 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 7TH HIGHEST VALUE IS 8. 37103 AT ( 562085. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 8TH HIGHEST VALUE IS 8. 18011 AT ( 562065. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 9TH HIGHEST VALUE IS 7. 36219 AT ( 562085. 76, 4821532. 01, 311. 00, 311. 00, 0. 00) DC  
 10TH HIGHEST VALUE IS 6. 05530 AT ( 562077. 84, 4821540. 29, 311. 01, 311. 01, 0. 00) DC

C79 1ST HIGHEST VALUE IS 0. 10893 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00) DC  
 2ND HIGHEST VALUE IS 0. 10893 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00) DC  
 3RD HIGHEST VALUE IS 0. 09493 AT ( 562085. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 4TH HIGHEST VALUE IS 0. 09149 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00) DC  
 5TH HIGHEST VALUE IS 0. 09149 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00) DC  
 6TH HIGHEST VALUE IS 0. 08665 AT ( 562065. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC  
 7TH HIGHEST VALUE IS 0. 08102 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 8TH HIGHEST VALUE IS 0. 08102 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00) DC  
 9TH HIGHEST VALUE IS 0. 06501 AT ( 562085. 76, 4821532. 01, 311. 00, 311. 00, 0. 00) DC  
 10TH HIGHEST VALUE IS 0. 06296 AT ( 562105. 76, 4821512. 01, 311. 00, 311. 00, 0. 00) DC

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\*\*MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS \*\*\*

\*\* CONC OF HCR IN NANOGRAMS/M3 \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
C80	1ST HIGHEST VALUE IS 0. 10910 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00)	DC		
	2ND HIGHEST VALUE IS 0. 10910 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00)	DC		
	3RD HIGHEST VALUE IS 0. 10763 AT ( 562065. 76, 4821512. 01, 311. 00, 311. 00, 0. 00)	DC		
	4TH HIGHEST VALUE IS 0. 10032 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00)	DC		
	5TH HIGHEST VALUE IS 0. 10032 AT ( 562057. 04, 4821518. 74, 311. 00, 311. 00, 0. 00)	DC		
	6TH HIGHEST VALUE IS 0. 08681 AT ( 562085. 76, 4821512. 01, 311. 00, 311. 00, 0. 00)	DC		
	7TH HIGHEST VALUE IS 0. 07391 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00)	DC		
	8TH HIGHEST VALUE IS 0. 07391 AT ( 562070. 91, 4821533. 11, 311. 00, 311. 00, 0. 00)	DC		
	9TH HIGHEST VALUE IS 0. 06977 AT ( 562085. 76, 4821492. 01, 310. 52, 310. 52, 0. 00)	DC		
	10TH HIGHEST VALUE IS 0. 06310 AT ( 562056. 81, 4821505. 08, 310. 84, 310. 84, 0. 00)	DC		
ALL	1ST HIGHEST VALUE IS 15. 20966 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00)	DC		
	2ND HIGHEST VALUE IS 15. 20966 AT ( 562063. 97, 4821525. 92, 311. 00, 311. 00, 0. 00)	DC		

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3RD HIGHEST VALUE IS	12.98229	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	12.98229	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	11.68651	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	11.68651	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	10.34532	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	10.30965	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	9.19427	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	7.43715	AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

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\*\*MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
 A Total of 0 Warning Message(s)  
 A Total of 3 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 3 Calm Hours Identified

A Total of 0 Missing Hours Identified ( 0.00 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

