

**Scenario: O\_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	
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		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	
O_R1	Description of Reduction Component							Scrubber + Air/gas									
	Individual Reduction Description							(6,7,8, or 9) + 12		Partial of 12	Partial of 12		Partial of 12	Partial of 12			
	Reduction Efficiency							20%	0%	50%	50%	0%	50%	50%	0%	0%	
	Additional Reduction Efficiency							86%									
	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)	Source ER (g/s)
	RC+(6,7,8, or9) +12		2.04E-05	2.04E-05				1.89E-05		6.87E-07	6.87E-07	2.36E-06	6.87E-07	6.87E-07	2.34E-06	2.34E-06	6.95E-05
	Explanation of calculation for B38 :	It is not appropriate to apply the air/gas reduction of 86% to the current B38 emission rate since it is using a different technology that would be removed before installing air/gas combustion. Therefore, for emission reduction estimation purposes, the B38 reconfiguration ER is assumed to be identical to that of the B11 reconfiguration emission rate.															

Annual Hexavalent Chromium Results  
 Technical Benchmarking Option 0 - 5 year data set

Run (tab) Name:	Ann_Opt_O_R2_Metyr1	Ann_Opt_O_R2_Metyr2	Ann_Opt_O_R2_Metyr3	Ann_Opt_O_R2_Metyr4	Ann_Opt_O_R2_Metyr5	
Run Description:	Option O_R2, Reg 419 grid, Site Specific Met (2009)	Option O_R2, Reg 419 grid, Site Specific Met (2010)	Option O_R2, Reg 419 grid, Site Specific Met (2011)	Option O_R2, Reg 419 grid, Site Specific Met (2012)	Option O_R2, 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	4.46567	5.10095	4.26902	4.53251	4.47516	5.10095
B10	0.03908	0.04012	0.04024	0.04071	0.0402	0.04071
B32	0.07978	0.0847	0.07868	0.08102	0.08023	0.0847
B34	0.05933	0.06748	0.0576	0.06099	0.05966	0.06748
B35	0.05924	0.06836	0.05762	0.06181	0.05927	0.06836
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	2.0241	2.29377	1.92003	2.07037	2.0053	2.29377
B24	0.94663	1.05854	0.91869	0.94959	0.98204	1.05854
B25	0.85795	0.98808	0.81885	0.85051	0.85959	0.98808
B33	0.24981	0.29562	0.23972	0.25766	0.24583	0.29562
FURNACE	1.80458	2.04661	1.73754	1.80009	1.84163	2.04661
FOREHEAR	2.0241	2.29377	1.92003	2.07037	2.0053	2.29377
GENEXHTS	0.63699	0.76057	0.61145	0.66205	0.62822	0.76057

Run Description:	Option O_R2, Reg 419 grid, Site Specific Met (2009)	Option O_R2, Reg 419 grid, Site Specific Met (2010)	Option O_R2, Reg 419 grid, Site Specific Met (2011)	Option O_R2, Reg 419 grid, Site Specific Met (2012)	Option O_R2, 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	0.00446567	0.00510095	0.00426902	0.00453251	0.00447516	0.005101
B10	0.00003908	0.00004012	0.00004024	0.00004071	0.0000402	4.07E-05
B32	0.00007978	0.0000847	0.00007868	0.00008102	0.00008023	8.47E-05
B34	0.00005933	0.00006748	0.0000576	0.00006099	0.00005966	6.75E-05
B35	0.00005924	0.00006836	0.00005762	0.00006181	0.00005927	6.84E-05
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	0.0020241	0.00229377	0.00192003	0.00207037	0.0020053	0.002294
B24	0.00094663	0.00105854	0.00091869	0.00094959	0.00098204	0.001059
B25	0.00085795	0.00098808	0.00081885	0.00085051	0.00085959	0.000988
B33	0.00024981	0.00029562	0.00023972	0.00025766	0.00024583	0.000296
FURNACE	0.00180458	0.00204661	0.00173754	0.00180009	0.00184163	0.002047
FOREHEAR	0.0020241	0.00229377	0.00192003	0.00207037	0.0020053	0.002294
GENEXHTS	0.00063699	0.00076057	0.00061145	0.00066205	0.00062822	0.000761

# 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	6.87E-7	321.90	12.10	1.24
		General Exhaust Above T107B F/H							
POINT	B32	562047.16	4821528.02	312.00	14.48	6.87E-7	321.90	19.19	1.24
		General Exhaust Above T106							
POINT	B34	562039.70	4821535.65	312.00	14.48	6.87E-7	321.90	19.19	1.24
		General Exhaust Above T107A F/H							
POINT	B35	562047.03	4821543.82	312.00	14.48	6.87E-7	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	0.00002	379.15	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_0_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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 \*\*\* AERMET - VERSION 14134 \*\*\* Ann\_Opt\_0\_R2\_Metyr2

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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	2.29377	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	2.29377	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	1.97059	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	1.97059	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	1.73041	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	

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	6TH HIGHEST VALUE IS	1.73041 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	1.57939 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	1.54351 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	1.38943 AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	1.14280 AT (	562077.84,	4821540.29,	311.01,	311.01,	0.00)	DC
GENEXHTS	1ST HIGHEST VALUE IS	0.76057 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.76057 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.65066 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.65066 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.60741 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.60741 AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.54638 AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.51083 AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.44607 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.44607 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
B10	1ST HIGHEST VALUE IS	0.04012 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04012 AT (	562050.10,	4821511.55,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02875 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02875 AT (	562076.93,	4821485.66,	310.19,	310.19,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02713 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02713 AT (	562070.22,	4821492.13,	310.40,	310.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02679 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02679 AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02637 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02637 AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC

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 \*\*\* AERMET - VERSION 14134 \*\*\*

\*\*\* OC Guelph Project 144539 - Site Specific Standard  
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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 0.08470 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 2ND HIGHEST VALUE IS 0.08470 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 3RD HIGHEST VALUE IS 0.07642 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 4TH HIGHEST VALUE IS 0.07642 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.06892 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 0.06892 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.06327 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.06327 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.04438 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.04392 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 0.06748 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.06748 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.05800 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	4TH HIGHEST VALUE IS 0.05800 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00)	DC		
	5TH HIGHEST VALUE IS 0.05603 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	6TH HIGHEST VALUE IS 0.05603 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		
	7TH HIGHEST VALUE IS 0.04644 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)	DC		
	8TH HIGHEST VALUE IS 0.04644 AT ( 562050.10, 4821511.55, 311.00, 311.00, 0.00)	DC		
	9TH HIGHEST VALUE IS 0.04229 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
	10TH HIGHEST VALUE IS 0.04150 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00)	DC		
B35	1ST HIGHEST VALUE IS 0.06836 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 0.06836 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	3RD HIGHEST VALUE IS 0.05709 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00)	DC		

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4TH HIGHEST VALUE IS 0.05709 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.05418 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 0.05418 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.04574 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.04462 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.04101 AT ( 562085.76, 4821532.01, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.03141 AT ( 562077.84, 4821540.29, 311.01, 311.01, 0.00) DC

B38 1ST HIGHEST VALUE IS 2.29377 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 2ND HIGHEST VALUE IS 2.29377 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00) DC  
 3RD HIGHEST VALUE IS 1.97059 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 4TH HIGHEST VALUE IS 1.97059 AT ( 562070.91, 4821533.11, 311.00, 311.00, 0.00) DC  
 5TH HIGHEST VALUE IS 1.73041 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 6TH HIGHEST VALUE IS 1.73041 AT ( 562057.04, 4821518.74, 311.00, 311.00, 0.00) DC  
 7TH HIGHEST VALUE IS 1.57939 AT ( 562085.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 8TH HIGHEST VALUE IS 1.54351 AT ( 562065.76, 4821512.01, 311.00, 311.00, 0.00) DC  
 9TH HIGHEST VALUE IS 1.38943 AT ( 562085.76, 4821532.01, 311.00, 311.00, 0.00) DC  
 10TH HIGHEST VALUE IS 1.14280 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 I N 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 5.10095 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS 5.10095 AT ( 562063.97, 4821525.92, 311.00, 311.00, 0.00)	DC		

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3RD HIGHEST VALUE IS	4.30233	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	4.30233	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	4.03153	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	4.03153	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	3.52878	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	3.41424	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	3.07589	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	2.39854	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 \*\*\*

