

Scenario: T_R1

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	
T	Description of Reduction Component							Partial Prototype									
	Individual Reduction Description							14		Result of 14	Result of 14		Result of 14	Result of 14			
	Reduction Efficiency		0%	0%				50%	0%	50%	50%	0%	50%	50%	0%	0%	
	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)	Source ER (g/s)	TotalER (g/s)
	RC+14		2.04E-05	2.04E-05				8.15E-05		6.87E-07	6.87E-07	2.36E-06	6.87E-07	6.87E-07	2.34E-06	2.34E-06	1.32E-04
	Explanation of calculation for B38 :	The 50% reduction efficiency for control option #14 only applies to the B11 reconfigured emission rate, not the B38 current emission rate since the technology already exists on that portion of CFM forehearth.															

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

Run (tab) Name:	Ann_Opt_T_R1_Metyr1	Ann_Opt_T_R1_Metyr2	Ann_Opt_T_R1_Metyr3	Ann_Opt_T_R1_Metyr4	Ann_Opt_T_R1_Metyr5	
Run Description:	Option T_R1, Reg 419 grid, Site Specific Met (2009)	Option T_R1, Reg 419 grid, Site Specific Met (2010)	Option T_R1, Reg 419 grid, Site Specific Met (2011)	Option T_R1, Reg 419 grid, Site Specific Met (2012)	Option T_R1, Reg 419 grid, Site Specific Met (2013)	MAX
Result Units:		ng/m3	ng/m3	ng/m3	ng/m3	ng/m3
ALL	11.19417	12.72779	10.65119	11.41519	11.14115	12.72779
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	8.7526	9.92061	8.3022	8.95305	8.67129	9.92061
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	8.7526	9.92061	8.3022	8.95305	8.67129	9.92061
GENEXHTS	0.63699	0.76057	0.61145	0.66205	0.62822	0.76057

Run Description:	Option T_R1, Reg 419 grid, Site Specific Met (2009)	Option T_R1, Reg 419 grid, Site Specific Met (2010)	Option T_R1, Reg 419 grid, Site Specific Met (2011)	Option T_R1, Reg 419 grid, Site Specific Met (2012)	Option T_R1, Reg 419 grid, Site Specific Met (2013)	MAX
Result Units:	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
ALL	0.01119417	0.01272779	0.01065119	0.01141519	0.01114115	0.012728
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	0.0087526	0.00992061	0.0083022	0.00895305	0.00867129	0.009921
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	0.0087526	0.00992061	0.0083022	0.00895305	0.00867129	0.009921
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	0.00008	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

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**MODELOPTS: NonDEFAULT CONC ELEV FLGPOL BETA

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses RURAL Dispersion Only.

**Model Allows User-Specified Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. BETA Option for Capped & Horiz Stacks Selected With:

5 Capped Stack(s); and 0 Horiz Stack(s)

**Other Options Specified:

CCVR_Sub - Meteorological data includes CCVR substitutions
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: HCR

**Model Calculates ANNUAL Averages Only

**This Run Includes: 10 Source(s); 14 Source Group(s); and 2062 Receptor(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 325.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/S ; Emission Rate Unit Factor = 0.10000E+10
Output Units = NANOGRAMS/M3

														Ann_Opt_T_R1_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	9.92061	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	9.92061	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	3RD HIGHEST VALUE IS	8.52243	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	8.52243	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	7.48399	AT (562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC	

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6TH HIGHEST VALUE IS	7.48399	AT (562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	6.83191	AT (562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	6.67609	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	6.00856	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	4.94195	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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**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	9.92061	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
2ND HIGHEST VALUE IS	9.92061	AT (	562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
3RD HIGHEST VALUE IS	8.52243	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	8.52243	AT (	562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	7.48399	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	7.48399	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	6.83191	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	6.67609	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	6.00856	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	4.94195	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	12.72779	AT (562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	12.72779	AT (562063.97,	4821525.92,	311.00,	311.00,	0.00)	DC

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3RD HIGHEST VALUE IS	10.85417	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
4TH HIGHEST VALUE IS	10.85417	AT (562070.91,	4821533.11,	311.00,	311.00,	0.00)	DC
5TH HIGHEST VALUE IS	9.78510	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
6TH HIGHEST VALUE IS	9.78510	AT (	562057.04,	4821518.74,	311.00,	311.00,	0.00)	DC
7TH HIGHEST VALUE IS	8.66676	AT (	562085.76,	4821512.01,	311.00,	311.00,	0.00)	DC
8TH HIGHEST VALUE IS	8.66135	AT (	562065.76,	4821512.01,	311.00,	311.00,	0.00)	DC
9TH HIGHEST VALUE IS	7.69502	AT (	562085.76,	4821532.01,	311.00,	311.00,	0.00)	DC
10TH HIGHEST VALUE IS	6.19769	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 ***

