

## Attachment 3: Updated Modeling File Excerpts

This attachment includes: excerpts of AERMOD Input, Output, and Hourly Emission Files for Sikeston, Sibley, and Labadie (both Labadie scenarios described in Attachment 1)

(See original recommendation for receptor grid information,  
<http://dnr.mo.gov/env/apcp/naaqsboundarydesignations.htm#SO2>)

### Excerpt of AERMOD Input File for Sikeston

CO STARTING  
CO TITLEONE SO2 SIKESTON POWER STATION (201-0017) Sikeston with Hourly CEMS file Run with Interactive sources and extended Rec Grid  
CO TITLETWO 2013-2015 Met/CEMS And varying temp and velocity from facility

CO MODELOPT DFAULT CONC  
CO RUNORNOT RUN  
CO AVERTIME 1  
CO POLLUTID SO2  
CO ERRORFIL Sikeston.err  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS

\*\*Noranda Aluminum included as Interactive Source at PSD application rates unless noted

\*\*Updated to baseline emissions (from PSD app) where available otherwise still scenario 2

SO LOCATION EP61 POINT 807991.1 4045990.4 91.81999  
SO LOCATION EP62 POINT 807771.1 4045812.9 91.06001  
SO LOCATION EP63 POINT 807554.2 4045812.5 90.87999

SO LOCATION EP94 POINT 807953.7 4046131.9 92.07999  
SO LOCATION EP95 POINT 808018.8 4046106.8 91.52001  
SO LOCATION EP96 POINT 808018.8 4046092.7 91.32  
SO LOCATION EP97 POINT 807708.6 4046131.9 90.41999  
\*\*SO LOCATION EPAAA POINT 808011.7 4046226.34 92.85001

SO LOCATION EP98 POINT 808034.2 4046184.0 85  
SO LOCATION EP99 POINT 808011.7 4046211.1 85  
SO LOCATION EPAA POINT 808030.0 4046254.9 85

SO LOCATION EPAB POINT 807561.4 4046135.6 90.10001  
SO LOCATION EPAD POINT 807610.1 4046135.6 90.11001  
SO LOCATION EPAE POINT 807623.1 4046134.8 90.12  
SO LOCATION EPAF POINT 807596.8 4046135.6 90.10001  
SO LOCATION EPAG POINT 807583.5 4046135.2 90.10001  
SO LOCATION EPAH POINT 807513 4046135.6 90.08001  
SO LOCATION EPAI POINT 807500.5 4046135.6 90.08001  
SO LOCATION EPAJ POINT 807644.8 4046166 90.10001  
SO LOCATION EPAK POINT 807645.2 4046182.7 90.08001  
SO LOCATION EPAL POINT 807645.6 4046196.5 90.06998  
SO LOCATION EPAN POINT 807529.7 4046135.6 90.09001  
SO LOCATION EPBA POINT 807789.9 4045619.4 91.45999  
SO LOCATION EPBB POINT 807790.3 4045599.4 91.57  
SO LOCATION EPBC POINT 807813.2 4045619.4 91.38001  
SO LOCATION EPBD POINT 807812.8 4045599.4 91.52001  
SO LOCATION EPBH POINT 807790.7 4045572.7 91.56  
SO LOCATION EPBI POINT 807086.7 4046127.9 88.55001  
SO LOCATION EPBJ POINT 807305.2 4046097.1 89.94998  
SO LOCATION EPBK POINT 807337.2 4046097.1 90.03  
SO LOCATION EP113 POINT 807789.8 4045590.50 91.44  
SO LOCATION EP114 POINT 807790.3 4045584.10 91.44

\*\*Emission Rates from PSD app using baseline 2002/03 emissions (Table B-2)  
 SO SRCPARAM EP61 71.5 72.03 360.37 11.71139 7.92  
 \*\*Original Stack Height 65-Meters, Requested Update, Run Based Upon 42-Meters  
 SO SRCPARAM EP62 21.3 42 357.82 11.7348 4.359999  
 \*\*Original Stack Height 65-Meters, Requested Update, Run Based Upon 42-Meters  
 SO SRCPARAM EP63 21.3 42 359.48 11.7348 4.359999

SO SRCPARAM EP94 0.000504 6.401001 298.15 5 0.6100002  
 SO SRCPARAM EP95 0.000454 5.181999 298.15 5 0.457  
 SO SRCPARAM EP96 0.000454 4.572 298.15 5 0.3659999  
 SO SRCPARAM EP97 0.000413 3.049999 298.15 5 0.4299999

\*\*Rerouted Emissions w/o addition of control device prohibited under CAA  
 \*\*Existing stacks raised to 65-meters  
 \*\*A second analysis was completed to ensure the new stack being built won't exceed  
 \*\*SO SRCPARAM EPAAA 2.097744 65 343.71 30.48 2.18

\*\*Baseline Emission rates from PSD App Table B-16  
 SO SRCPARAM EP98 13.227 65.00 343.889 19.671 1.676  
 SO SRCPARAM EP99 13.227 65.00 343.889 19.671 1.676  
 SO SRCPARAM EPAA 13.227 65.00 343.889 10.579 2.286  
 SO SRCPARAM EPAB 0.001584 30.48 866.4833 0.78 1.13  
 SO SRCPARAM EPAD 0.001584 30.48 866.4833 1.55 0.9099999  
 SO SRCPARAM EPAE 0.000936 30.48 755.3722 0.5200001 0.98  
 SO SRCPARAM EPAF 0.001584 30.48 866.4833 1.55 0.9099999  
 SO SRCPARAM EPAG 0.000936 30.48 755.3722 0.5200001 0.98  
 SO SRCPARAM EPAH 0.002362 30.48 866.4833 0.9899998 1.22  
 SO SRCPARAM EPAI 0.000936 27.43 755.3722 0.6099999 0.98  
 SO SRCPARAM EPAJ 0.000108 14.94 533.15 0.3099999 0.9099999  
 SO SRCPARAM EPAK 0.000108 14.94 533.15 0.3099999 0.9099999  
 SO SRCPARAM EPAL 0.000108 14.94 533.15 0.16 1.28  
 SO SRCPARAM EPAN 0.002016 30.48 866.4833 0.78 1.13  
 \*\*Exit Velocity Update  
 SO SRCPARAM EPBA 0.001872 15.24 866.4833 10.9728 1.13  
 \*\*Exit Velocity Update  
 SO SRCPARAM EPBB 0.000720 15.24 755.3722 8.2296 1.13  
 \*\*Exit Velocity Update  
 SO SRCPARAM EPBC 0.001872 15.24 866.4833 10.9728 1.13  
 \*\*Exit Velocity Update  
 SO SRCPARAM EPBD 0.000720 15.24 755.3722 8.2296 1.13  
 SO SRCPARAM EPBH 0.000432 15.24 866.4833 0.03 0.6099999  
 SO SRCPARAM EPBI 0.000104 5.486001 298.15 0.208 0.183  
 SO SRCPARAM EPBJ 0.000147 5.790999 298.15 0.132 0.213  
 SO SRCPARAM EPBK 0.000147 5.790999 298.15 0.122 0.3049999  
 SO SRCPARAM EP113 1.436E-03 15.24 449.82 18.873 0.9144  
 SO SRCPARAM EP114 1.436E-03 15.24 449.82 18.873 0.9144

SO BUILDHGT EP61 16.00 16.00 16.00 24.16 24.16 24.16  
 SO BUILDHGT EP61 24.16 25.60 25.60 25.60 25.60 25.60  
 SO BUILDHGT EP61 25.60 28.80 28.80 28.80 23.09 23.09  
 SO BUILDHGT EP61 16.00 16.00 16.00 24.16 24.16 24.16  
 SO BUILDHGT EP61 24.16 25.60 25.60 25.60 25.60 25.60  
 SO BUILDHGT EP61 25.60 25.60 25.60 25.60 24.84 24.84  
 SO BUILDWID EP61 84.36 87.76 88.50 29.19 29.19 29.30  
 SO BUILDWID EP61 29.19 29.41 29.52 29.41 29.41 29.52  
 SO BUILDWID EP61 29.42 47.29 42.87 37.70 58.06 58.98  
 SO BUILDWID EP61 84.36 87.76 88.50 29.19 29.19 29.30  
 SO BUILDWID EP61 29.19 29.41 29.52 29.41 29.41 29.52  
 SO BUILDWID EP61 29.42 29.42 49.95 43.63 41.44 41.60  
 SO BUILDLEN EP61 53.53 64.94 74.37 29.19 29.19 29.30  
 SO BUILDLEN EP61 29.19 29.41 29.52 29.41 29.41 29.52  
 SO BUILDLEN EP61 29.42 56.50 59.86 61.40 26.30 19.28  
 SO BUILDLEN EP61 53.53 64.94 74.37 29.19 29.19 29.30  
 SO BUILDLEN EP61 29.19 29.41 29.52 29.41 29.41 29.52  
 SO BUILDLEN EP61 29.42 29.42 63.39 66.33 41.44 41.60  
 SO XBADJ EP61 -67.25 -67.25 -65.21 -61.08 -64.05 -65.57  
 SO XBADJ EP61 -65.44 -58.57 -61.66 -63.22 -63.36 -62.07  
 SO XBADJ EP61 -59.25 -164.62 -168.63 -167.51 -115.12 -108.60  
 SO XBADJ EP61 13.71 2.31 -9.16 31.89 34.86 36.27  
 SO XBADJ EP61 36.25 29.15 32.14 33.81 33.95 32.56  
 SO XBADJ EP61 29.83 25.70 20.30 13.93 -121.17 -118.90

SO YBADJ	EP61	-29.20	-35.82	-41.34	21.17	12.78	4.00
SO YBADJ	EP61	-4.91	21.34	13.40	5.05	-3.45	-11.85
SO YBADJ	EP61	-19.88	27.35	3.92	-19.91	-8.43	-26.01
SO YBADJ	EP61	29.20	35.82	41.34	-21.17	-12.78	-4.00
SO YBADJ	EP61	4.91	-21.34	-13.40	-5.05	3.45	11.85
SO YBADJ	EP61	19.88	27.31	23.70	32.38	-4.73	-22.10

SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP62	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDWID	EP62	603.77	590.20	558.70	517.74	465.49	399.10
SO BUILDWID	EP62	320.58	232.32	137.00	173.86	271.64	361.16
SO BUILDWID	EP62	439.72	504.91	554.76	587.75	602.88	599.70
SO BUILDWID	EP62	603.77	590.20	558.70	517.74	465.49	399.10
SO BUILDWID	EP62	320.58	232.32	137.00	173.86	271.64	361.16
SO BUILDWID	EP62	439.72	504.91	554.76	587.75	602.88	599.70
SO BUILDLEN	EP62	173.86	271.64	361.16	439.72	504.91	554.76
SO BUILDLEN	EP62	587.75	602.88	599.70	603.77	590.20	558.70
SO BUILDLEN	EP62	517.74	465.49	399.10	320.58	232.32	137.00
SO XBADJ	EP62	-108.07	-175.55	-237.70	-292.63	-338.67	-374.41
SO XBADJ	EP62	-398.78	-411.04	-410.80	-411.27	-399.94	-376.46
SO XBADJ	EP62	-349.05	-315.49	-272.34	-220.92	-162.78	-99.70
SO XBADJ	EP62	-65.79	-96.09	-123.46	-147.09	-166.24	-180.34
SO XBADJ	EP62	-188.97	-191.85	-188.90	-192.51	-190.27	-182.24
SO XBADJ	EP62	-168.68	-150.00	-126.75	-99.66	-69.54	-37.30
SO YBADJ	EP62	109.38	104.84	97.11	90.19	82.75	72.80
SO YBADJ	EP62	60.63	46.62	31.20	-21.14	-39.73	-57.12
SO YBADJ	EP62	-72.77	-86.21	-97.04	-104.91	-109.59	-110.95
SO YBADJ	EP62	-109.38	-104.84	-97.11	-90.19	-82.75	-72.79
SO YBADJ	EP62	-60.63	-46.62	-31.20	21.14	39.73	57.12
SO YBADJ	EP62	72.77	86.21	97.04	104.91	109.59	110.95

SO BUILDHGT	EP63	16.76	16.76	16.76	29.87	29.87	29.87
SO BUILDHGT	EP63	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP63	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP63	29.87	29.87	29.87	29.87	29.87	29.87
SO BUILDHGT	EP63	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDHGT	EP63	16.76	16.76	16.76	16.76	16.76	16.76
SO BUILDWID	EP63	603.77	590.20	558.70	61.97	57.78	51.83
SO BUILDWID	EP63	320.58	232.32	137.00	173.86	271.64	361.16
SO BUILDWID	EP63	439.72	504.91	554.76	587.75	602.88	599.70
SO BUILDWID	EP63	63.02	64.63	64.28	61.97	57.78	51.83
SO BUILDWID	EP63	320.58	232.32	137.00	173.86	271.64	361.16
SO BUILDWID	EP63	439.72	504.91	554.76	587.75	602.88	599.70
SO BUILDLEN	EP63	173.86	271.64	361.16	57.78	61.97	64.28
SO BUILDLEN	EP63	587.75	602.88	599.70	603.77	590.20	558.70
SO BUILDLEN	EP63	517.74	465.49	399.10	320.58	232.32	137.00
SO BUILDLEN	EP63	35.44	44.31	51.83	57.78	61.97	64.28
SO BUILDLEN	EP63	587.75	602.88	599.70	603.77	590.20	558.70
SO BUILDLEN	EP63	517.74	465.49	399.10	320.58	232.32	137.00
SO XBADJ	EP63	-70.01	-100.99	-128.91	58.64	53.51	46.75
SO XBADJ	EP63	-194.83	-197.36	-193.90	-197.73	-196.26	-188.82
SO XBADJ	EP63	-183.16	-176.38	-164.24	-147.11	-125.51	-100.10
SO XBADJ	EP63	-98.42	-107.76	-113.81	-116.42	-115.48	-111.03
SO XBADJ	EP63	-392.92	-405.52	-405.80	-406.04	-393.95	-369.88
SO XBADJ	EP63	-334.58	-289.11	-234.86	-173.47	-106.81	-36.90
SO YBADJ	EP63	-104.16	-98.85	-90.53	9.80	24.85	39.15
SO YBADJ	EP63	-13.18	9.35	31.60	16.92	34.83	51.68
SO YBADJ	EP63	66.95	80.20	91.01	99.05	104.08	105.95
SO YBADJ	EP63	35.27	20.72	5.54	-9.80	-24.85	-39.15
SO YBADJ	EP63	13.18	-9.35	-31.60	-16.92	-34.83	-51.68
SO YBADJ	EP63	-66.95	-80.20	-91.01	-99.05	-104.08	-105.95

SO BUILDHGT EP94	28.80	28.80	28.80	28.80	28.80	28.80
SO BUILDHGT EP94	28.80	28.80	28.80	28.80	28.80	28.80
SO BUILDHGT EP94	28.80	28.80	28.80	28.80	23.09	23.09
SO BUILDHGT EP94	28.80	28.80	28.80	28.80	28.80	28.80
SO BUILDHGT EP94	28.80	28.80	28.80	28.80	28.80	28.80
SO BUILDHGT EP94	28.80	28.80	28.80	28.80	25.60	25.60
SO BUILDWID EP94	27.89	36.78	44.78	51.42	56.50	59.86
SO BUILDWID EP94	61.40	61.08	59.10	58.68	56.68	53.81
SO BUILDWID EP94	51.33	47.29	42.87	37.70	39.29	39.60
SO BUILDWID EP94	27.89	36.78	44.78	51.42	56.50	59.86
SO BUILDWID EP94	61.40	61.08	59.10	58.68	56.68	53.81
SO BUILDWID EP94	51.33	47.29	42.87	37.70	36.98	29.52
SO BUILDLEN EP94	58.68	56.68	53.81	51.33	47.29	42.87
SO BUILDLEN EP94	37.70	31.37	24.30	27.89	36.78	44.78
SO BUILDLEN EP94	51.42	56.50	59.86	61.40	64.11	59.60
SO BUILDLEN EP94	58.68	56.68	53.81	51.33	47.29	42.87
SO BUILDLEN EP94	37.70	31.37	24.30	27.89	36.78	44.78
SO BUILDLEN EP94	51.42	56.50	59.86	61.40	68.26	29.52
SO XBADJ EP94	-55.57	-59.06	-60.75	-60.59	-58.60	-55.88
SO XBADJ EP94	-52.01	-46.56	-39.70	-40.61	-40.28	-38.73
SO XBADJ EP94	-36.00	-32.18	-27.38	-21.75	-15.46	-8.70
SO XBADJ EP94	-3.11	2.38	6.93	9.26	11.31	13.01
SO XBADJ EP94	14.32	15.19	15.40	12.72	3.50	-6.05
SO XBADJ EP94	-15.41	-24.31	-32.47	-39.65	-139.21	-142.86
SO YBADJ EP94	26.66	21.89	16.34	10.29	3.93	-2.55
SO YBADJ EP94	-8.95	-15.08	-20.85	-26.23	-30.72	-33.84
SO YBADJ EP94	-34.93	-34.95	-34.45	-33.16	-26.92	-19.90
SO YBADJ EP94	-26.66	-21.89	-16.34	-10.29	-3.93	2.55
SO YBADJ EP94	8.95	15.08	20.85	26.23	30.72	33.84
SO YBADJ EP94	34.93	34.95	34.45	33.16	27.82	9.50

SO BUILDHGT EP95	16.00	24.16	25.60	25.60	25.60	25.60
SO BUILDHGT EP95	28.80	28.80	28.80	28.80	28.80	20.37
SO BUILDHGT EP95	20.37	20.42	20.42	20.42	20.42	0.00
SO BUILDHGT EP95	0.00	20.00	23.09	23.09	23.09	23.09
SO BUILDHGT EP95	23.09	23.09	23.09	23.09	23.09	20.37
SO BUILDHGT EP95	20.37	20.00	20.00	20.00	16.00	16.00
SO BUILDWID EP95	649.40	42.16	29.52	29.42	59.20	63.39
SO BUILDWID EP95	61.40	61.08	59.10	58.68	56.68	26.23
SO BUILDWID EP95	25.63	205.93	199.87	187.74	175.75	0.00
SO BUILDWID EP95	0.00	36.30	66.51	50.15	45.26	39.60
SO BUILDWID EP95	33.15	26.30	111.75	106.27	98.26	57.30
SO BUILDWID EP95	53.32	45.40	41.99	37.30	667.82	653.00
SO BUILDLEN EP95	253.73	62.29	29.52	29.42	55.44	49.95
SO BUILDLEN EP95	37.70	31.37	24.30	27.89	36.78	21.45
SO BUILDLEN EP95	23.54	213.06	204.98	190.68	170.58	0.00
SO BUILDLEN EP95	0.00	47.16	98.61	43.26	48.48	52.84
SO BUILDLEN EP95	55.99	58.06	60.20	68.24	76.93	36.79
SO BUILDLEN EP95	43.66	45.05	45.31	45.25	244.43	160.05
SO XBADJ EP95	-310.06	-169.89	-141.26	-141.56	-138.06	-130.86
SO XBADJ EP95	-104.60	-106.32	-104.80	-109.08	-110.04	-65.68
SO XBADJ EP95	-64.81	-291.62	-283.73	-267.23	-242.60	0.00
SO XBADJ EP95	0.00	-37.07	42.65	26.26	28.12	28.82
SO XBADJ EP95	28.45	26.90	44.60	40.84	33.11	28.89
SO XBADJ EP95	21.15	-39.42	-35.20	-29.91	-189.24	-208.70
SO YBADJ EP95	273.48	28.50	13.11	-9.06	-16.06	-34.96
SO YBADJ EP95	36.90	20.95	4.25	-12.82	-29.40	-5.76
SO YBADJ EP95	-15.27	-1.61	-33.09	-63.56	-95.03	0.00
SO YBADJ EP95	0.00	26.40	-31.60	-29.93	-21.16	-11.74
SO YBADJ EP95	-1.98	7.85	22.08	36.61	50.19	21.29
SO YBADJ EP95	29.12	-24.37	-26.64	-28.10	311.40	292.50

SO BUILDHGT EP96	16.00	20.00	25.60	25.60	25.60	25.60
SO BUILDHGT EP96	25.60	28.80	28.80	28.80	28.80	28.80
SO BUILDHGT EP96	20.37	20.37	20.42	20.42	20.42	0.00
SO BUILDHGT EP96	0.00	20.00	23.09	23.09	23.09	23.09
SO BUILDHGT EP96	23.09	23.09	23.09	23.09	23.09	23.09

SO BUILDHGT EP96	20.37	20.37	16.00	16.00	16.00	16.00
SO BUILDWID EP96	649.40	36.30	29.52	29.42	29.42	63.39
SO BUILDWID EP96	66.33	61.08	59.10	58.68	56.68	53.81
SO BUILDWID EP96	25.63	24.25	199.87	187.74	175.75	0.00
SO BUILDWID EP96	0.00	36.30	66.51	78.77	45.26	39.60
SO BUILDWID EP96	33.15	26.30	111.75	108.63	30.70	37.35
SO BUILDWID EP96	53.32	48.01	636.76	662.36	667.82	653.00
SO BUILDLEN EP96	253.73	47.16	29.52	29.42	29.42	49.95
SO BUILDLEN EP96	43.63	31.37	24.30	27.89	36.78	44.78
SO BUILDLEN EP96	23.54	24.92	204.98	190.68	170.58	0.00
SO BUILDLEN EP96	0.00	47.16	98.61	89.96	48.48	52.84
SO BUILDLEN EP96	55.99	58.06	60.20	38.24	56.88	54.14
SO BUILDLEN EP96	43.66	49.49	396.55	325.43	244.43	160.05
SO XBADJ EP96	-296.18	3.16	-129.05	-130.76	-129.00	-123.81
SO XBADJ EP96	-115.21	-103.87	-104.80	-111.53	-114.86	-114.71
SO XBADJ EP96	-73.88	-72.78	-295.95	-280.48	-256.48	0.00
SO XBADJ EP96	0.00	-50.32	30.44	40.80	19.06	21.77
SO XBADJ EP96	23.63	24.45	44.60	43.32	20.89	17.77
SO XBADJ EP96	30.22	23.29	-121.63	-150.78	-175.36	-194.60
SO YBADJ EP96	275.93	-21.58	20.16	0.00	-20.15	-22.75
SO YBADJ EP96	-39.56	34.83	18.35	1.07	-16.15	-32.44
SO YBADJ EP96	-4.47	-15.25	-26.04	-58.74	-92.58	0.00
SO YBADJ EP96	0.00	21.58	-38.65	-24.68	-31.96	-23.96
SO YBADJ EP96	-15.23	-6.04	7.98	60.90	21.53	29.76
SO YBADJ EP96	18.31	27.13	313.49	316.02	308.95	292.50

SO BUILDHGT EP97	16.00	16.00	16.00	16.00	16.00	16.00
SO BUILDHGT EP97	16.00	14.99	14.99	14.99	16.00	16.00
SO BUILDHGT EP97	16.00	16.00	16.00	16.00	16.00	14.17
SO BUILDHGT EP97	16.00	16.00	16.00	16.00	16.00	16.00
SO BUILDHGT EP97	16.00	12.57	12.57	12.57	16.00	16.00
SO BUILDHGT EP97	16.00	16.00	16.00	16.00	16.00	16.00
SO BUILDWID EP97	564.13	554.06	530.84	500.84	455.62	396.55
SO BUILDWID EP97	325.43	143.41	110.90	144.22	323.64	395.45
SO BUILDWID EP97	455.25	501.21	537.57	561.40	568.67	95.40
SO BUILDWID EP97	564.13	554.06	530.84	500.84	455.62	396.55
SO BUILDWID EP97	325.43	55.95	50.20	70.62	323.64	395.45
SO BUILDWID EP97	455.25	501.21	537.57	561.40	568.67	559.85
SO BUILDLEN EP97	242.00	323.64	395.45	455.25	501.21	537.57
SO BUILDLEN EP97	561.40	240.38	228.10	242.94	554.06	530.84
SO BUILDLEN EP97	500.84	455.62	396.55	325.43	244.43	54.00
SO BUILDLEN EP97	249.50	323.64	395.45	455.25	501.21	537.57
SO BUILDLEN EP97	561.40	134.78	129.30	131.03	554.06	530.84
SO BUILDLEN EP97	500.84	455.62	396.55	325.43	244.43	156.00
SO XBADJ EP97	-280.92	-322.50	-354.28	-375.30	-384.91	-382.83
SO XBADJ EP97	-369.12	-297.35	-300.10	-310.93	-261.41	-226.54
SO XBADJ EP97	-184.78	-137.42	-85.87	-31.72	23.39	-115.80
SO XBADJ EP97	31.41	-1.14	-41.17	-79.95	-116.30	-154.74
SO XBADJ EP97	-192.29	-112.20	-105.90	-99.57	-292.66	-304.31
SO XBADJ EP97	-316.06	-318.20	-310.68	-293.71	-267.83	-233.80
SO YBADJ EP97	6.27	-15.62	-38.89	-65.64	-90.39	-112.40
SO YBADJ EP97	-131.00	67.66	36.85	4.20	-160.68	-156.55
SO YBADJ EP97	-147.67	-134.31	-114.04	-88.41	-59.85	20.90
SO YBADJ EP97	-6.27	15.62	38.89	65.64	90.39	112.40
SO YBADJ EP97	131.00	-23.85	-23.40	-30.09	160.68	156.55
SO YBADJ EP97	147.67	134.31	114.04	88.41	59.85	28.87

SO BUILDHGT EP98	0.00	23.09	23.09	28.80	28.80	28.80
SO BUILDHGT EP98	28.80	20.42	20.42	20.42	24.69	24.69
SO BUILDHGT EP98	24.69	24.69	24.69	24.69	0.00	0.00
SO BUILDHGT EP98	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT EP98	20.42	20.42	0.00	0.00	0.00	0.00
SO BUILDHGT EP98	20.42	20.42	20.42	20.00	20.00	20.00
SO BUILDWID EP98	0.00	56.88	54.14	51.42	56.50	59.86
SO BUILDWID EP98	61.40	170.58	145.30	168.60	108.07	129.41
SO BUILDWID EP98	146.81	159.75	167.84	170.83	0.00	0.00
SO BUILDWID EP98	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID EP98	190.68	170.58	0.00	0.00	0.00	0.00
SO BUILDWID EP98	205.73	205.93	199.87	37.30	31.48	25.20

SO BUILDLEN EP98	0.00	30.70	37.35	51.33	47.29	42.87
SO BUILDLEN EP98	37.70	175.75	162.10	181.13	168.01	165.24
SO BUILDLEN EP98	157.45	144.88	127.91	107.05	0.00	0.00
SO BUILDLEN EP98	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN EP98	187.74	175.75	0.00	0.00	0.00	0.00
SO BUILDLEN EP98	214.66	213.06	204.98	45.25	44.09	41.60
SO XBADJ EP98	0.00	-127.94	-135.20	-152.25	-153.75	-151.65
SO XBADJ EP98	-145.48	-211.48	-221.90	-237.95	-250.57	-255.58
SO XBADJ EP98	-252.82	-242.38	-224.58	-199.95	0.00	0.00
SO XBADJ EP98	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ EP98	10.57	35.73	0.00	0.00	0.00	0.00
SO XBADJ EP98	38.16	29.32	19.59	-97.19	-97.07	-94.00
SO YBADJ EP98	0.00	32.57	12.52	38.47	15.77	-7.41
SO YBADJ EP98	-30.37	83.96	60.75	36.69	50.87	20.92
SO YBADJ EP98	-9.65	-39.94	-69.01	-95.98	0.00	0.00
SO YBADJ EP98	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ EP98	-104.61	-83.96	0.00	0.00	0.00	0.00
SO YBADJ EP98	39.11	63.03	85.02	12.77	-0.14	-13.30

SO BUILDHGT EP99	0.00	23.09	28.80	28.80	28.80	28.80
SO BUILDHGT EP99	20.42	20.42	20.42	20.42	24.69	24.69
SO BUILDHGT EP99	24.69	24.69	24.69	24.69	0.00	0.00
SO BUILDHGT EP99	0.00	0.00	0.00	20.42	20.42	20.42
SO BUILDHGT EP99	20.42	20.42	20.42	20.42	20.42	20.42
SO BUILDHGT EP99	20.42	20.42	20.42	20.42	20.00	0.00
SO BUILDWID EP99	0.00	76.93	44.78	51.42	56.50	59.86
SO BUILDWID EP99	190.68	170.58	145.30	168.60	108.07	129.41
SO BUILDWID EP99	146.81	159.75	167.84	170.83	0.00	0.00
SO BUILDWID EP99	0.00	0.00	0.00	214.66	213.06	204.98
SO BUILDWID EP99	190.68	170.58	145.30	168.60	186.78	199.28
SO BUILDWID EP99	205.73	205.93	199.87	187.74	31.48	0.00
SO BUILDLEN EP99	0.00	98.26	53.81	51.33	47.29	42.87
SO BUILDLEN EP99	187.74	175.75	162.10	181.13	168.01	165.24
SO BUILDLEN EP99	157.45	144.88	127.91	107.05	0.00	0.00
SO BUILDLEN EP99	0.00	0.00	0.00	205.73	205.93	199.87
SO BUILDLEN EP99	187.74	175.75	162.10	181.13	198.45	209.74
SO BUILDLEN EP99	214.66	213.06	204.98	190.68	44.09	0.00
SO XBADJ EP99	0.00	-194.90	-158.34	-158.54	-153.93	-145.71
SO XBADJ EP99	-186.43	-194.03	-199.40	-211.09	-220.16	-222.54
SO XBADJ EP99	-218.17	-207.16	-189.86	-166.79	0.00	0.00
SO XBADJ EP99	0.00	0.00	0.00	-57.45	-39.75	-20.85
SO XBADJ EP99	-1.31	18.27	37.30	29.96	21.71	12.80
SO XBADJ EP99	3.50	-5.90	-15.13	-23.89	-127.66	0.00
SO YBADJ EP99	0.00	29.23	26.97	3.82	-19.45	-42.13
SO YBADJ EP99	71.45	53.36	33.65	13.91	33.10	8.70
SO YBADJ EP99	-15.95	-40.12	-63.07	-84.11	0.00	0.00
SO YBADJ EP99	0.00	0.00	0.00	-110.84	-100.63	-87.37
SO YBADJ EP99	-71.45	-53.36	-33.65	-13.91	6.26	26.23
SO YBADJ EP99	45.41	63.21	79.09	92.56	-17.59	0.00

SO BUILDHGT EPAA	0.00	0.00	20.42	20.42	20.42	20.42
SO BUILDHGT EPAA	20.42	20.42	24.69	24.69	24.69	24.69
SO BUILDHGT EPAA	24.69	24.69	0.00	0.00	0.00	0.00
SO BUILDHGT EPAA	0.00	0.00	20.42	20.42	20.42	20.42
SO BUILDHGT EPAA	20.42	0.00	0.00	20.42	20.42	20.42
SO BUILDHGT EPAA	24.69	24.69	0.00	0.00	0.00	0.00
SO BUILDWID EPAA	0.00	0.00	209.74	214.66	213.06	204.98
SO BUILDWID EPAA	190.68	170.58	56.30	83.45	108.07	129.41
SO BUILDWID EPAA	146.81	159.75	0.00	0.00	0.00	0.00
SO BUILDWID EPAA	0.00	0.00	209.74	214.66	213.06	204.98
SO BUILDWID EPAA	190.68	0.00	0.00	168.60	186.78	199.28
SO BUILDWID EPAA	146.81	159.75	0.00	0.00	0.00	0.00
SO BUILDLEN EPAA	0.00	0.00	199.28	205.73	205.93	199.87
SO BUILDLEN EPAA	187.74	175.75	161.30	165.67	168.01	165.24
SO BUILDLEN EPAA	157.45	144.88	0.00	0.00	0.00	0.00
SO BUILDLEN EPAA	0.00	0.00	199.28	205.73	205.93	199.87
SO BUILDLEN EPAA	187.74	0.00	0.00	181.13	198.45	209.74
SO BUILDLEN EPAA	157.45	144.88	0.00	0.00	0.00	0.00

SO XBADJ	EPAA	0.00	0.00	-172.96	-193.59	-208.35	-216.77
SO XBADJ	EPAA	-218.61	-219.65	-216.90	-221.50	-222.38	-216.49
SO XBADJ	EPAA	-204.03	-185.37	0.00	0.00	0.00	0.00
SO XBADJ	EPAA	0.00	0.00	-26.33	-12.14	2.42	16.90
SO XBADJ	EPAA	30.87	0.00	0.00	40.38	23.93	6.75
SO XBADJ	EPAA	46.58	40.49	0.00	0.00	0.00	0.00
SO YBADJ	EPAA	0.00	0.00	111.62	96.70	78.84	58.58
SO YBADJ	EPAA	36.55	13.40	34.35	10.17	-14.32	-38.38
SO YBADJ	EPAA	-61.27	-82.29	0.00	0.00	0.00	0.00
SO YBADJ	EPAA	0.00	0.00	-111.62	-96.70	-78.84	-58.58
SO YBADJ	EPAA	-36.55	0.00	0.00	32.41	53.68	73.32
SO YBADJ	EPAA	61.27	82.29	0.00	0.00	0.00	0.00

SO BUILDHGT	EPAB	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAB	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAB	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAB	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAB	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID	EPAB	242.94	217.84	203.11	182.21	227.36	205.33
SO BUILDWID	EPAB	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID	EPAB	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID	EPAB	225.95	217.84	203.11	182.21	227.36	205.33
SO BUILDWID	EPAB	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID	EPAB	156.76	182.63	202.95	247.16	240.38	228.10
SO BUILDLEN	EPAB	144.22	91.66	126.12	156.76	238.21	246.43
SO BUILDLEN	EPAB	247.16	240.38	228.10	242.94	250.39	203.11
SO BUILDLEN	EPAB	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN	EPAB	54.40	91.66	126.12	156.76	238.21	246.43
SO BUILDLEN	EPAB	247.16	240.38	228.10	242.94	250.39	203.11
SO BUILDLEN	EPAB	182.21	155.77	124.60	177.06	143.41	110.90
SO XBADJ	EPAB	-45.99	15.01	-14.25	-43.08	-126.19	-139.47
SO XBADJ	EPAB	-148.50	-153.03	-152.90	-165.32	-172.72	-174.87
SO XBADJ	EPAB	-171.70	-163.32	-149.98	-132.07	-110.16	-88.60
SO XBADJ	EPAB	-98.23	-106.67	-111.87	-113.67	-112.02	-106.97
SO XBADJ	EPAB	-98.66	-87.36	-75.20	-77.62	-77.68	-28.25
SO XBADJ	EPAB	-10.51	7.55	25.38	-44.98	-33.25	-22.30
SO YBADJ	EPAB	43.85	63.80	73.31	80.60	49.64	47.31
SO YBADJ	EPAB	43.55	38.46	33.15	26.12	19.19	48.81
SO YBADJ	EPAB	35.29	20.71	5.49	-9.89	-24.98	-39.30
SO YBADJ	EPAB	-52.34	-63.80	-73.31	-80.60	-49.64	-47.31
SO YBADJ	EPAB	-43.55	-38.46	-33.15	-26.12	-19.19	-48.81
SO YBADJ	EPAB	-35.29	-20.71	-5.49	24.92	32.83	38.85

SO BUILDHGT	EPAD	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAD	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAD	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAD	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAD	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID	EPAD	242.94	217.84	250.24	242.48	227.36	205.33
SO BUILDWID	EPAD	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAD	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID	EPAD	225.95	217.84	250.24	242.48	227.36	205.33
SO BUILDWID	EPAD	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAD	156.76	238.21	246.43	247.16	240.38	228.10
SO BUILDLEN	EPAD	144.22	91.66	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAD	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAD	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN	EPAD	54.40	91.66	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAD	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAD	182.21	227.36	205.33	177.06	143.41	110.90
SO XBADJ	EPAD	-54.45	-1.64	-113.01	-140.39	-163.50	-181.64
SO XBADJ	EPAD	-194.26	-200.99	-201.60	-213.28	-218.48	-217.04
SO XBADJ	EPAD	-209.01	-194.62	-174.33	-148.73	-118.62	-88.60
SO XBADJ	EPAD	-89.77	-90.01	-87.52	-82.37	-74.72	-64.79
SO XBADJ	EPAD	-52.90	-39.40	-26.50	-29.66	0.64	13.93
SO XBADJ	EPAD	26.80	-32.74	-31.00	-28.33	-24.79	-22.30
SO YBADJ	EPAD	91.81	109.56	91.92	87.76	80.94	71.66

SO YBADJ	EPAD	60.20	46.91	33.15	17.66	44.18	24.46
SO YBADJ	EPAD	3.99	-16.60	-36.69	-55.66	-72.94	-88.00
SO YBADJ	EPAD	-100.30	-109.56	-91.92	-87.76	-80.94	-71.66
SO YBADJ	EPAD	-60.20	-46.91	-33.15	-17.66	-44.18	-24.46
SO YBADJ	EPAD	-3.99	44.39	58.43	70.68	80.79	87.55

SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAE	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID	EPAE	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID	EPAE	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAE	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID	EPAE	225.95	250.39	250.24	242.48	227.36	205.33
SO BUILDWID	EPAE	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAE	222.76	238.21	246.43	247.16	240.38	228.10
SO BUILDLEN	EPAE	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAE	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAE	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN	EPAE	54.40	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAE	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAE	242.48	227.36	205.33	177.06	143.41	110.90
SO XBADJ	EPAE	-55.92	-88.64	-118.82	-148.13	-172.94	-192.50
SO XBADJ	EPAE	-206.21	-213.65	-214.60	-226.22	-230.97	-228.70
SO XBADJ	EPAE	-219.48	-203.59	-181.52	-153.93	-121.66	-89.40
SO XBADJ	EPAE	-88.30	-86.32	-81.71	-74.63	-65.27	-53.93
SO XBADJ	EPAE	-40.96	-26.73	-13.50	-16.72	13.13	25.59
SO XBADJ	EPAE	-23.00	-23.77	-23.81	-23.13	-21.74	-21.50
SO YBADJ	EPAE	104.75	105.77	103.58	98.24	89.91	78.85
SO YBADJ	EPAE	65.40	49.96	33.95	16.19	40.49	18.65
SO YBADJ	EPAE	-3.75	-26.04	-47.54	-67.60	-85.60	-101.00
SO YBADJ	EPAE	-113.24	-105.77	-103.58	-98.24	-89.91	-78.85
SO YBADJ	EPAE	-65.40	-49.96	-33.95	-16.19	-40.49	-18.65
SO YBADJ	EPAE	36.75	53.84	69.28	82.63	93.46	100.55

SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAF	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID	EPAF	242.94	217.84	203.11	242.48	227.36	205.33
SO BUILDWID	EPAF	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAF	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID	EPAF	225.95	217.84	203.11	242.48	227.36	205.33
SO BUILDWID	EPAF	177.06	143.41	110.90	144.22	91.66	126.12
SO BUILDWID	EPAF	156.76	238.21	246.43	247.16	240.38	228.10
SO BUILDLEN	EPAF	144.22	91.66	126.12	222.76	238.21	246.43
SO BUILDLEN	EPAF	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAF	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN	EPAF	54.40	91.66	126.12	222.76	238.21	246.43
SO BUILDLEN	EPAF	247.16	240.38	228.10	242.94	217.84	203.11
SO BUILDLEN	EPAF	182.21	227.36	205.33	177.06	143.41	110.90
SO XBADJ	EPAF	-52.14	2.91	-31.95	-131.84	-153.31	-170.12
SO XBADJ	EPAF	-181.77	-187.89	-188.30	-200.18	-205.98	-205.52
SO XBADJ	EPAF	-198.82	-186.07	-167.68	-144.18	-116.31	-88.60
SO XBADJ	EPAF	-92.08	-94.56	-94.17	-90.92	-84.90	-76.31
SO XBADJ	EPAF	-65.40	-52.50	-39.80	-42.76	-11.86	2.41
SO XBADJ	EPAF	16.61	-41.29	-37.65	-32.88	-27.10	-22.30
SO YBADJ	EPAF	78.71	97.06	103.97	77.58	72.39	65.01
SO YBADJ	EPAF	55.65	44.60	33.15	19.97	48.73	31.11
SO YBADJ	EPAF	12.54	-6.41	-25.17	-43.16	-59.84	-74.70
SO YBADJ	EPAF	-87.21	-97.06	-103.97	-77.58	-72.39	-65.01
SO YBADJ	EPAF	-55.65	-44.60	-33.15	-19.97	-48.73	-31.11
SO YBADJ	EPAF	-12.54	34.20	46.91	58.19	67.70	74.25



SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAG	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID EPAG	242.94	217.84	203.11	182.21	227.36	205.33
SO BUILDWID EPAG	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID EPAG	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID EPAG	225.95	217.84	203.11	182.21	227.36	205.33
SO BUILDWID EPAG	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID EPAG	156.76	182.63	246.43	247.16	240.38	228.10
SO BUILDLEN EPAG	144.22	91.66	126.12	156.76	238.21	246.43
SO BUILDLEN EPAG	247.16	240.38	228.10	242.94	250.39	203.11
SO BUILDLEN EPAG	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN EPAG	54.40	91.66	126.12	156.76	238.21	246.43
SO BUILDLEN EPAG	247.16	240.38	228.10	242.94	250.39	203.11
SO BUILDLEN EPAG	182.21	155.77	205.33	177.06	143.41	110.90
SO XBADJ EPAG	-49.44	7.83	-24.96	-56.98	-142.86	-158.40
SO XBADJ EPAG	-169.13	-174.72	-175.00	-187.15	-193.62	-194.20
SO XBADJ EPAG	-188.89	-177.83	-161.37	-140.01	-114.39	-89.00
SO XBADJ EPAG	-94.78	-99.49	-101.17	-99.77	-95.35	-88.03
SO XBADJ EPAG	-78.03	-65.66	-53.10	-55.78	-56.77	-8.91
SO XBADJ EPAG	6.68	22.06	-43.96	-37.05	-29.02	-21.90
SO YBADJ EPAG	65.68	84.70	92.65	97.78	64.15	58.71
SO YBADJ EPAG	51.48	42.69	33.55	22.67	12.01	38.11
SO YBADJ EPAG	21.40	4.03	-13.45	-30.52	-46.67	-61.40
SO YBADJ EPAG	-74.18	-84.70	-92.65	-97.78	-64.15	-58.71
SO YBADJ EPAG	-51.48	-42.69	-33.55	-22.67	-12.01	-38.11
SO YBADJ EPAG	-21.40	-4.03	35.19	45.55	54.53	60.95

SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAH	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID EPAH	242.94	250.39	203.11	182.21	155.77	124.60
SO BUILDWID EPAH	177.06	143.41	110.90	144.22	174.96	200.53
SO BUILDWID EPAH	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID EPAH	225.95	217.84	203.11	182.21	155.77	124.60
SO BUILDWID EPAH	177.06	143.41	110.90	144.22	174.96	200.53
SO BUILDWID EPAH	156.76	182.63	202.95	217.11	240.38	228.10
SO BUILDLEN EPAH	144.22	174.96	126.12	156.76	182.63	202.95
SO BUILDLEN EPAH	247.16	240.38	228.10	242.94	250.39	250.24
SO BUILDLEN EPAH	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN EPAH	54.40	91.66	126.12	156.76	182.63	202.95
SO BUILDLEN EPAH	247.16	240.38	228.10	242.94	250.39	250.24
SO BUILDLEN EPAH	182.21	155.77	124.60	89.64	143.41	110.90
SO XBADJ EPAH	-37.59	-51.74	9.95	-11.97	-33.53	-54.07
SO XBADJ EPAH	-103.02	-105.36	-104.50	-117.66	-127.24	-132.95
SO XBADJ EPAH	-134.62	-132.21	-125.78	-115.52	-101.76	-88.60
SO XBADJ EPAH	-106.63	-123.22	-136.07	-144.78	-149.10	-148.88
SO XBADJ EPAH	-144.14	-135.02	-123.60	-125.28	-123.16	-117.29
SO XBADJ EPAH	-47.58	-23.56	1.18	25.88	-41.65	-22.30
SO YBADJ EPAH	-3.81	2.04	31.39	43.52	54.32	63.48
SO YBADJ EPAH	26.99	30.05	33.15	34.52	35.74	35.81
SO YBADJ EPAH	66.41	57.78	47.41	35.59	22.69	9.10
SO YBADJ EPAH	-4.68	-18.31	-31.39	-43.52	-54.32	-63.48
SO YBADJ EPAH	-26.99	-30.05	-33.15	-34.52	-35.74	-35.81
SO YBADJ EPAH	-66.41	-57.78	-47.41	-35.59	-14.83	-9.55

SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99

SO BUILDHGT EPAI	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID EPAI	242.94	250.39	203.11	182.21	155.77	124.60
SO BUILDWID EPAI	177.06	143.41	110.90	144.22	174.96	200.53
SO BUILDWID EPAI	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID EPAI	225.95	217.84	203.11	182.21	155.77	124.60
SO BUILDWID EPAI	177.06	143.41	110.90	144.22	174.96	200.53
SO BUILDWID EPAI	156.76	182.63	202.95	217.11	240.38	228.10
SO BUILDLEN EPAI	144.22	174.96	126.12	156.76	182.63	202.95
SO BUILDLEN EPAI	247.16	240.38	228.10	242.94	250.39	250.24
SO BUILDLEN EPAI	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN EPAI	54.40	91.66	126.12	156.76	182.63	202.95
SO BUILDLEN EPAI	247.16	240.38	228.10	242.94	250.39	250.24
SO BUILDLEN EPAI	182.21	155.77	124.60	89.64	143.41	110.90
SO XBADJ EPAI	-35.42	-47.46	16.20	-3.94	-23.96	-43.24
SO XBADJ EPAI	-91.27	-93.05	-92.00	-105.35	-115.49	-122.12
SO XBADJ EPAI	-125.05	-124.17	-119.53	-111.25	-99.59	-88.60
SO XBADJ EPAI	-108.80	-127.50	-142.32	-152.82	-158.67	-159.71
SO XBADJ EPAI	-155.89	-147.33	-136.10	-137.59	-134.90	-128.12
SO XBADJ EPAI	-57.16	-31.60	-5.07	21.60	-43.82	-22.30
SO YBADJ EPAI	-16.12	-9.71	20.57	33.94	46.29	57.23
SO YBADJ EPAI	22.72	27.88	33.15	36.69	40.02	42.06
SO YBADJ EPAI	74.44	67.36	58.23	47.33	35.00	21.60
SO YBADJ EPAI	7.63	-6.57	-20.57	-33.94	-46.29	-57.23
SO YBADJ EPAI	-22.72	-27.88	-33.15	-36.69	-40.02	-42.06
SO YBADJ EPAI	-74.44	-67.36	-58.23	-47.33	-27.14	-22.05

SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAJ	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDWID EPAJ	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID EPAJ	177.06	143.41	110.90	54.40	91.66	126.12
SO BUILDWID EPAJ	156.76	182.63	202.95	217.11	224.67	0.00
SO BUILDWID EPAJ	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID EPAJ	177.06	143.41	110.90	54.40	91.66	126.12
SO BUILDWID EPAJ	222.76	238.21	246.43	247.16	240.38	0.00
SO BUILDLEN EPAJ	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN EPAJ	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN EPAJ	182.21	155.77	124.60	89.64	51.96	0.00
SO BUILDLEN EPAJ	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN EPAJ	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN EPAJ	242.48	227.36	205.33	177.06	143.41	0.00
SO XBADJ EPAJ	-90.41	-125.38	-156.69	-185.98	-209.62	-226.89
SO XBADJ EPAJ	-237.27	-240.44	-236.30	-242.17	-240.69	-231.89
SO XBADJ EPAJ	-216.05	-193.64	-165.35	-132.03	-94.71	0.00
SO XBADJ EPAJ	-53.81	-49.58	-43.84	-36.78	-28.59	-19.54
SO XBADJ EPAJ	-9.89	0.05	8.20	16.22	22.85	28.78
SO XBADJ EPAJ	-26.44	-33.72	-39.98	-45.03	-48.70	0.00
SO YBADJ EPAJ	120.71	115.49	106.77	94.81	79.96	62.68
SO YBADJ EPAJ	43.50	23.00	2.75	26.60	3.75	-19.22
SO YBADJ EPAJ	-41.60	-62.72	-81.94	-98.66	-112.39	0.00
SO YBADJ EPAJ	-120.71	-115.49	-106.77	-94.81	-79.96	-62.68
SO YBADJ EPAJ	-43.50	-23.00	-2.75	-26.60	-3.75	19.22
SO YBADJ EPAJ	74.60	90.51	103.68	113.69	120.25	0.00

SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT EPAK	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDWID EPAK	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID EPAK	177.06	143.41	110.90	54.40	91.66	126.12
SO BUILDWID EPAK	156.76	182.63	202.95	217.11	224.67	0.00
SO BUILDWID EPAK	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID EPAK	177.06	143.41	110.90	54.40	91.66	126.12

SO BUILDWID	EPAK	156.76	182.63	202.95	217.11	224.67	0.00
SO BUILDLEN	EPAK	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAK	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN	EPAK	182.21	155.77	124.60	89.64	51.96	0.00
SO BUILDLEN	EPAK	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAK	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN	EPAK	182.21	155.77	124.60	89.64	51.96	0.00
SO XBADJ	EPAK	-106.93	-141.21	-171.35	-199.03	-220.66	-235.59
SO XBADJ	EPAK	-243.36	-243.73	-236.70	-239.67	-235.35	-223.89
SO XBADJ	EPAK	-205.62	-181.10	-151.09	-116.48	-78.33	0.00
SO XBADJ	EPAK	-37.29	-33.75	-29.18	-23.73	-17.55	-10.84
SO XBADJ	EPAK	-3.81	3.35	8.60	13.71	17.51	20.78
SO XBADJ	EPAK	23.41	25.33	26.49	26.84	26.37	0.00
SO YBADJ	EPAK	118.20	110.16	98.77	84.38	67.42	48.42
SO YBADJ	EPAK	27.95	6.62	-13.95	10.09	-12.08	-33.88
SO YBADJ	EPAK	-54.65	-73.76	-90.63	-104.75	-115.68	0.00
SO YBADJ	EPAK	-118.20	-110.16	-98.77	-84.38	-67.42	-48.42
SO YBADJ	EPAK	-27.95	-6.62	13.95	-10.09	12.08	33.88
SO YBADJ	EPAK	54.65	73.76	90.63	104.75	115.68	0.00

SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAL	14.99	14.99	14.99	14.99	14.99	0.00
SO BUILDWID	EPAL	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID	EPAL	177.06	143.41	110.90	54.40	91.66	126.12
SO BUILDWID	EPAL	156.76	182.63	202.95	217.11	224.67	0.00
SO BUILDWID	EPAL	242.94	250.39	250.24	242.48	227.36	205.33
SO BUILDWID	EPAL	177.06	143.41	110.90	54.40	91.66	126.12
SO BUILDWID	EPAL	156.76	182.63	202.95	217.11	224.67	0.00
SO BUILDLEN	EPAL	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAL	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN	EPAL	182.21	155.77	124.60	89.64	51.96	0.00
SO BUILDLEN	EPAL	144.22	174.96	200.53	222.76	238.21	246.43
SO BUILDLEN	EPAL	247.16	240.38	228.10	225.95	217.84	203.11
SO BUILDLEN	EPAL	182.21	155.77	124.60	89.64	51.96	0.00
SO XBADJ	EPAL	-120.59	-154.32	-183.50	-209.86	-229.84	-242.83
SO XBADJ	EPAL	-248.45	-246.52	-237.10	-237.67	-231.01	-217.33
SO XBADJ	EPAL	-197.06	-170.79	-139.33	-103.65	-64.81	0.00
SO XBADJ	EPAL	-23.63	-20.64	-17.03	-12.90	-8.37	-3.60
SO XBADJ	EPAL	1.29	6.14	9.00	11.71	13.17	14.22
SO XBADJ	EPAL	14.85	15.02	14.74	14.00	12.85	0.00
SO YBADJ	EPAL	116.20	105.81	92.21	75.81	57.11	36.67
SO YBADJ	EPAL	15.12	-6.90	-27.75	-3.57	-25.18	-46.03
SO YBADJ	EPAL	-65.48	-82.94	-97.88	-109.84	-118.47	0.00
SO YBADJ	EPAL	-116.20	-105.81	-92.21	-75.81	-57.11	-36.67
SO YBADJ	EPAL	-15.12	6.90	27.75	3.57	25.18	46.03
SO YBADJ	EPAL	65.48	82.94	97.88	109.84	118.47	0.00

SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDHGT	EPAN	14.99	14.99	14.99	14.99	14.99	14.99
SO BUILDWID	EPAN	242.94	217.84	203.11	182.21	155.77	205.33
SO BUILDWID	EPAN	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID	EPAN	156.76	182.63	202.95	217.11	224.67	227.20
SO BUILDWID	EPAN	225.95	217.84	203.11	182.21	155.77	205.33
SO BUILDWID	EPAN	177.06	143.41	110.90	144.22	174.96	126.12
SO BUILDWID	EPAN	156.76	182.63	202.95	247.16	240.38	228.10
SO BUILDLEN	EPAN	144.22	91.66	126.12	156.76	182.63	246.43
SO BUILDLEN	EPAN	247.16	240.38	228.10	242.94	250.39	203.11
SO BUILDLEN	EPAN	182.21	155.77	124.60	89.64	51.96	17.30
SO BUILDLEN	EPAN	54.40	91.66	126.12	156.76	182.63	246.43
SO BUILDLEN	EPAN	247.16	240.38	228.10	242.94	250.39	203.11

SO BUILDLEN EPAN	182.21	155.77	124.60	177.06	143.41	110.90
SO XBADJ EPAN	-40.49	25.86	1.60	-22.71	-46.32	-112.01
SO XBADJ EPAN	-118.71	-121.81	-121.20	-134.10	-142.93	-147.41
SO XBADJ EPAN	-147.42	-142.94	-134.13	-121.23	-104.66	-88.60
SO XBADJ EPAN	-103.73	-117.51	-127.72	-134.05	-136.31	-134.42
SO XBADJ EPAN	-128.45	-118.58	-106.90	-108.84	-107.46	-55.70
SO XBADJ EPAN	-34.79	-12.83	9.53	-55.83	-38.75	-22.30
SO YBADJ EPAN	12.63	34.01	45.86	56.31	65.06	31.46
SO YBADJ EPAN	32.70	32.95	33.15	31.62	30.03	64.66
SO YBADJ EPAN	55.67	44.99	32.94	19.89	6.24	-7.60
SO YBADJ EPAN	-21.12	-34.01	-45.86	-56.31	-65.06	-31.46
SO YBADJ EPAN	-32.70	-32.95	-33.15	-31.62	-30.03	-64.66
SO YBADJ EPAN	-55.67	-44.99	-32.94	-4.87	1.62	7.15

SO BUILDHGT EPBA	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBA	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBA	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBA	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBA	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID EPBA	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EPBA	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EPBA	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID EPBA	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EPBA	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EPBA	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN EPBA	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EPBA	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EPBA	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN EPBA	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EPBA	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EPBA	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ EPBA	-63.25	-73.28	-81.08	-86.41	-89.13	-89.13
SO XBADJ EPBA	-86.43	-86.36	-89.30	-90.15	-88.67	-85.44
SO XBADJ EPBA	-80.01	-72.15	-62.09	-50.15	-36.68	-22.10
SO XBADJ EPBA	-27.47	-32.40	-36.34	-39.19	-40.84	-41.25
SO XBADJ EPBA	-40.41	-38.33	-35.10	-43.43	-50.65	-56.32
SO XBADJ EPBA	-60.29	-62.42	-62.66	-60.99	-57.47	-52.20
SO YBADJ EPBA	23.36	19.01	14.56	9.86	4.86	-0.28
SO YBADJ EPBA	-5.42	-10.39	-15.05	-17.89	-20.44	-22.37
SO YBADJ EPBA	-23.61	-24.14	-23.94	-23.01	-24.01	-27.10
SO YBADJ EPBA	-23.36	-19.01	-14.56	-9.86	-4.86	0.28
SO YBADJ EPBA	5.42	10.39	15.05	17.89	20.44	22.37
SO YBADJ EPBA	23.61	24.14	23.94	23.01	24.01	27.10

SO BUILDHGT EPBB	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBB	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBB	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBB	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EPBB	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID EPBB	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EPBB	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EPBB	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID EPBB	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EPBB	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EPBB	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN EPBB	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EPBB	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EPBB	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN EPBB	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EPBB	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EPBB	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ EPBB	-43.62	-54.62	-63.96	-71.35	-76.58	-79.48
SO XBADJ EPBB	-79.96	-83.28	-89.70	-94.02	-95.89	-95.79
SO XBADJ EPBB	-93.17	-87.72	-79.61	-69.08	-56.45	-42.10
SO XBADJ EPBB	-47.09	-51.05	-53.46	-54.25	-53.39	-50.90
SO XBADJ EPBB	-46.87	-41.41	-34.70	-39.57	-43.43	-45.98

SO XBADJ	EPBB	-47.13	-46.84	-45.14	-42.06	-37.70	-32.20
SO YBADJ	EPBB	27.23	26.23	24.91	23.02	20.44	17.24
SO YBADJ	EPBB	13.51	9.37	4.95	1.73	-1.78	-5.25
SO YBADJ	EPBB	-8.55	-11.60	-14.29	-16.55	-20.94	-27.50
SO YBADJ	EPBB	-27.23	-26.23	-24.91	-23.02	-20.44	-17.24
SO YBADJ	EPBB	-13.51	-9.37	-4.95	-1.73	1.78	5.25
SO YBADJ	EPBB	8.55	11.60	14.29	16.55	20.94	27.50

SO BUILDHGT	EPBC	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBC	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBC	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBC	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBC	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID	EPBC	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID	EPBC	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID	EPBC	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID	EPBC	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID	EPBC	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID	EPBC	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN	EPBC	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN	EPBC	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN	EPBC	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN	EPBC	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN	EPBC	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN	EPBC	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ	EPBC	-67.30	-81.25	-92.73	-101.39	-106.97	-109.31
SO XBADJ	EPBC	-108.32	-109.31	-112.60	-113.10	-110.56	-105.62
SO XBADJ	EPBC	-97.86	-87.12	-73.74	-58.12	-40.73	-22.10
SO XBADJ	EPBC	-23.42	-24.43	-24.69	-24.21	-22.99	-21.07
SO XBADJ	EPBC	-18.51	-15.39	-11.80	-20.49	-28.75	-36.15
SO XBADJ	EPBC	-42.44	-47.44	-51.01	-53.02	-53.42	-52.20
SO YBADJ	EPBC	46.31	40.90	34.74	27.71	19.84	11.37
SO YBADJ	EPBC	2.55	-6.35	-15.05	-21.94	-28.41	-34.02
SO YBADJ	EPBC	-38.59	-41.99	-44.12	-44.90	-46.96	-50.40
SO YBADJ	EPBC	-46.31	-40.90	-34.74	-27.71	-19.84	-11.37
SO YBADJ	EPBC	-2.55	6.35	15.05	21.94	28.41	34.02
SO YBADJ	EPBC	38.59	41.99	44.12	44.90	46.96	50.40

SO BUILDHGT	EPBD	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBD	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBD	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBD	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT	EPBD	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID	EPBD	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID	EPBD	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID	EPBD	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID	EPBD	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID	EPBD	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID	EPBD	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN	EPBD	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN	EPBD	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN	EPBD	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN	EPBD	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN	EPBD	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN	EPBD	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ	EPBD	-47.53	-62.31	-75.21	-85.81	-93.81	-98.96
SO XBADJ	EPBD	-101.10	-105.44	-112.20	-116.18	-117.03	-115.27
SO XBADJ	EPBD	-110.41	-102.19	-90.86	-76.77	-60.35	-42.10
SO XBADJ	EPBD	-43.19	-43.36	-42.21	-39.79	-36.15	-31.42
SO XBADJ	EPBD	-25.73	-19.26	-12.20	-17.41	-22.29	-26.49
SO XBADJ	EPBD	-29.89	-32.38	-33.89	-34.36	-33.79	-32.20
SO YBADJ	EPBD	49.39	47.37	44.39	40.26	34.90	28.49
SO YBADJ	EPBD	21.21	13.28	4.95	-2.17	-9.48	-16.50
SO YBADJ	EPBD	-23.01	-28.83	-33.77	-37.69	-43.09	-50.00
SO YBADJ	EPBD	-49.39	-47.37	-44.39	-40.26	-34.90	-28.49
SO YBADJ	EPBD	-21.21	-13.28	-4.95	2.17	9.48	16.50

SO YBADJ EPBD 23.01 28.83 33.77 37.69 43.09 50.00

SO BUILDHGT EPBI 5.00 5.00 5.00 5.00 5.00 5.00  
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SO BUILDHGT EPBI 5.00 5.00 5.00 5.00 5.00 5.00  
SO BUILDWID EPBI 62.32 62.55 60.88 57.36 53.75 55.64  
SO BUILDWID EPBI 55.84 54.35 51.20 57.43 64.51 69.64  
SO BUILDWID EPBI 72.65 73.45 72.02 68.40 62.70 60.20  
SO BUILDWID EPBI 62.32 62.55 60.88 57.36 53.75 55.64  
SO BUILDWID EPBI 55.84 54.35 51.20 57.43 64.51 69.64  
SO BUILDWID EPBI 72.65 73.45 72.02 68.40 62.70 60.20  
SO BUILDWID EPBI 62.32 62.55 60.88 57.36 53.75 55.64  
SO BUILDLEN EPBI 57.43 64.51 69.64 72.65 73.45 72.02  
SO BUILDLEN EPBI 68.40 62.70 60.20 62.32 62.55 60.88  
SO BUILDLEN EPBI 57.36 53.75 55.64 55.84 54.35 51.20  
SO BUILDLEN EPBI 57.43 64.51 69.64 72.65 73.45 72.02  
SO BUILDLEN EPBI 68.40 62.70 60.20 62.32 62.55 60.88  
SO BUILDLEN EPBI 57.36 53.75 55.64 55.84 54.35 51.20  
SO XBADJ EPBI -23.36 -30.32 -36.35 -41.27 -44.95 -47.25  
SO XBADJ EPBI -48.13 -47.54 -45.50 -44.67 -42.48 -39.00  
SO XBADJ EPBI -34.34 -30.28 -32.44 -33.62 -33.77 -32.90  
SO XBADJ EPBI -34.07 -34.20 -33.29 -31.37 -28.50 -24.76  
SO XBADJ EPBI -20.27 -15.17 -14.70 -17.65 -20.07 -21.88  
SO XBADJ EPBI -23.02 -23.47 -23.20 -22.22 -20.57 -18.30  
SO YBADJ EPBI 13.51 11.20 8.56 5.66 3.41 4.62  
SO YBADJ EPBI 5.70 6.60 7.30 5.35 1.94 -1.53  
SO YBADJ EPBI -4.95 -8.22 -11.25 -13.93 -16.18 -15.40  
SO YBADJ EPBI -13.51 -11.20 -8.56 -5.66 -3.41 -4.62  
SO YBADJ EPBI -5.70 -6.60 -7.30 -5.35 -1.94 1.53  
SO YBADJ EPBI 4.95 8.22 11.25 13.93 16.18 15.40

SO BUILDHGT EPBJ 4.77 4.77 4.77 4.77 4.77 4.77  
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SO BUILDHGT EPBJ 4.77 4.77 4.77 4.77 4.77 4.77  
SO BUILDWID EPBJ 49.01 50.92 51.29 50.10 47.39 43.24  
SO BUILDWID EPBJ 37.77 31.16 24.40 32.09 38.80 44.33  
SO BUILDWID EPBJ 48.52 51.23 52.38 51.95 49.93 46.40  
SO BUILDWID EPBJ 49.01 50.92 51.29 50.10 47.39 43.24  
SO BUILDWID EPBJ 37.77 31.16 24.40 32.09 38.80 44.33  
SO BUILDWID EPBJ 48.52 51.23 52.38 51.95 49.93 46.40  
SO BUILDLEN EPBJ 32.09 38.80 44.33 48.52 51.23 52.38  
SO BUILDLEN EPBJ 51.95 49.93 46.40 49.01 50.92 51.29  
SO BUILDLEN EPBJ 50.10 47.39 43.24 37.77 31.16 24.40  
SO BUILDLEN EPBJ 32.09 38.80 44.33 48.52 51.23 52.38  
SO BUILDLEN EPBJ 51.95 49.93 46.40 49.01 50.92 51.29  
SO BUILDLEN EPBJ 50.10 47.39 43.24 37.77 31.16 24.40  
SO XBADJ EPBJ -13.54 -13.76 -13.57 -12.97 -11.97 -10.61  
SO XBADJ EPBJ -8.92 -6.97 -4.80 -6.19 -7.79 -9.16  
SO XBADJ EPBJ -10.25 -11.02 -11.47 -11.56 -11.30 -11.50  
SO XBADJ EPBJ -18.55 -25.03 -30.76 -35.55 -39.26 -41.78  
SO XBADJ EPBJ -43.02 -42.96 -41.60 -42.81 -43.13 -42.13  
SO XBADJ EPBJ -39.85 -36.36 -31.77 -26.21 -19.86 -12.90  
SO YBADJ EPBJ -18.31 -17.67 -16.48 -14.80 -12.67 -10.15  
SO YBADJ EPBJ -7.33 -4.28 -0.70 2.51 5.64 8.59  
SO YBADJ EPBJ 11.29 13.65 15.58 17.05 18.00 18.40  
SO YBADJ EPBJ 18.31 17.67 16.48 14.80 12.67 10.15  
SO YBADJ EPBJ 7.33 4.28 0.70 -2.51 -5.64 -8.59  
SO YBADJ EPBJ -11.29 -13.65 -15.58 -17.05 -18.00 -18.40

SO BUILDHGT EPBK	4.77	4.77	4.77	4.77	4.77	4.77
SO BUILDHGT EPBK	4.77	4.77	4.77	4.77	4.77	4.77
SO BUILDHGT EPBK	4.77	4.77	4.77	4.77	4.77	4.77
SO BUILDHGT EPBK	4.77	4.77	4.77	4.77	4.77	4.77
SO BUILDHGT EPBK	4.77	4.77	4.77	16.00	16.00	16.00
SO BUILDHGT EPBK	16.00	16.00	16.00	16.00	16.00	4.77
SO BUILDWID EPBK	49.01	50.92	51.29	50.10	47.39	43.24
SO BUILDWID EPBK	37.77	31.16	24.40	32.09	38.80	44.33
SO BUILDWID EPBK	48.52	51.23	52.38	51.95	49.93	46.40
SO BUILDWID EPBK	49.01	50.92	51.29	50.10	47.39	43.24
SO BUILDWID EPBK	37.77	31.16	24.40	242.00	323.64	395.45
SO BUILDWID EPBK	455.25	501.21	537.57	561.40	636.93	46.40
SO BUILDLEN EPBK	32.09	38.80	44.33	48.52	51.23	52.38
SO BUILDLEN EPBK	51.95	49.93	46.40	49.01	50.92	51.29
SO BUILDLEN EPBK	50.10	47.39	43.24	37.77	31.16	24.40
SO BUILDLEN EPBK	32.09	38.80	44.33	48.52	51.23	52.38
SO BUILDLEN EPBK	51.95	49.93	46.40	564.13	554.06	530.84
SO BUILDLEN EPBK	500.84	455.62	396.55	325.43	371.15	24.40
SO XBADJ EPBK	-19.09	-24.71	-29.57	-33.54	-36.48	-38.32
SO XBADJ EPBK	-38.99	-38.48	-36.80	-37.71	-37.86	-36.87
SO XBADJ EPBK	-34.76	-31.59	-27.47	-22.50	-16.86	-11.50
SO XBADJ EPBK	-12.99	-14.09	-14.76	-14.98	-14.75	-14.06
SO XBADJ EPBK	-12.95	-11.45	-9.60	-635.51	-629.76	-608.55
SO XBADJ EPBK	-578.20	-530.27	-466.24	-388.04	-424.76	-12.90
SO YBADJ EPBK	13.20	12.40	11.23	9.71	7.90	5.85
SO YBADJ EPBK	3.62	1.28	-0.70	-3.05	-5.31	-7.41
SO YBADJ EPBK	-9.28	-10.87	-12.13	-13.02	-13.51	-13.60
SO YBADJ EPBK	-13.20	-12.40	-11.23	-9.71	-7.90	-5.85
SO YBADJ EPBK	-3.62	-1.28	0.70	61.15	0.95	-59.29
SO YBADJ EPBK	-117.72	-172.57	-225.00	-272.49	-285.39	13.60

SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP113	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID EP113	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EP113	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EP113	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID EP113	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EP113	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EP113	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN EP113	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EP113	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EP113	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN EP113	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EP113	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EP113	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ EP113	-34.77	-46.08	-56.00	-64.21	-70.47	-74.59
SO XBADJ EP113	-76.45	-81.25	-89.20	-95.07	-98.46	-99.80
SO XBADJ EP113	-98.51	-94.22	-87.07	-77.27	-65.12	-51.00
SO XBADJ EP113	-55.94	-59.59	-61.42	-61.39	-59.49	-55.78
SO XBADJ EP113	-50.38	-43.45	-35.20	-38.51	-40.86	-41.96
SO XBADJ EP113	-41.79	-40.35	-37.68	-33.87	-29.02	-23.30
SO YBADJ EP113	28.28	28.80	28.92	28.36	26.94	24.69
SO YBADJ EP113	21.70	18.05	13.85	10.59	6.75	2.71
SO YBADJ EP113	-1.41	-5.49	-9.40	-13.03	-18.90	-27.00
SO YBADJ EP113	-28.28	-28.80	-28.92	-28.36	-26.94	-24.69
SO YBADJ EP113	-21.70	-18.05	-13.85	-10.59	-6.75	-2.71
SO YBADJ EP113	1.41	5.49	9.40	13.03	18.90	27.00

SO BUILDHGT EP114	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP114	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP114	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP114	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDHGT EP114	10.06	10.06	10.06	10.06	10.06	10.06
SO BUILDWID EP114	133.59	139.32	141.77	140.30	134.57	124.75

SO BUILDWID EP114	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EP114	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDWID EP114	133.59	139.32	141.77	140.30	134.57	124.75
SO BUILDWID EP114	111.14	94.15	74.30	90.71	105.67	117.42
SO BUILDWID EP114	125.60	129.96	130.38	126.83	124.70	124.40
SO BUILDLEN EP114	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EP114	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EP114	140.30	134.57	124.75	111.14	94.15	74.30
SO BUILDLEN EP114	90.71	105.67	117.42	125.60	129.96	130.38
SO BUILDLEN EP114	126.83	124.70	124.40	133.59	139.32	141.77
SO BUILDLEN EP114	140.30	134.57	124.75	111.14	94.15	74.30
SO XBADJ EP114	-28.55	-40.24	-50.71	-59.63	-66.74	-71.83
SO XBADJ EP114	-74.73	-80.63	-89.70	-96.68	-101.12	-103.44
SO XBADJ EP114	-103.01	-99.44	-92.86	-83.45	-71.51	-57.40
SO XBADJ EP114	-62.16	-65.43	-66.71	-65.97	-63.22	-58.55
SO XBADJ EP114	-52.10	-44.07	-34.70	-36.91	-38.20	-38.33
SO XBADJ EP114	-37.29	-35.12	-31.89	-27.68	-22.63	-16.90
SO YBADJ EP114	29.88	31.46	32.56	32.86	32.16	30.49
SO YBADJ EP114	27.89	24.44	20.25	16.80	12.59	8.00
SO YBADJ EP114	3.17	-1.76	-6.64	-11.31	-18.28	-27.50
SO YBADJ EP114	-29.88	-31.46	-32.56	-32.86	-32.16	-30.49
SO YBADJ EP114	-27.89	-24.44	-20.25	-16.80	-12.59	-8.00
SO YBADJ EP114	-3.17	1.76	6.64	11.31	18.28	27.50

\*\*AECI New Madrid included as Interactive Source Inputs -Hourly CEMS emissions for AECI New Madrid boilers 1 and 2 years 13-15

\*\*AECI Boiler 1

SO LOCATION B1 POINT 807904.53 4046548.55 91.14

\*\*AECI Boiler 2

SO LOCATION B2 POINT 807911.58 4046554.90 91.14

\*\*Sikeston Inputs

\*\*Boiler 1

SO LOCATION SIKE1 POINT 801211.2145 4086783.627 91.72

\*\*USING ACTUAL STACK HEIGHT FOR DESIGNATIONS MODELING FOR USE WITH ACTUAL EMISSIONS TO BE A SURROGATE FOR MONITORING PER draft DRR/MODELING TAD

\*\*USING HOURLY CEMS EMISSIONS FOR 2013 TO 2015 FOR NEW MADRID BOILERS 1 AND 2

\*\*USING HOURLY CEMS EMISSIONS FOR 2013 TO 2015 FOR SIKESTON BOILER 1

SO SRCPARAM B1 337.95 243.84 579.26 29.49 6.10

SO SRCPARAM B2 300.3 243.84 581.48 29.23 6.10

SO SRCPARAM SIKE1 206.243 137.16 410.92 1.63 4.572

SO HOUREMIS Sikeston-Newmadrid-Hourly-CEMS-Emis-13-15.txt B1 B2 SIKE1

\*\*BPIP Outputs

SO BUILDHGT B1	23.01	23.01	23.01	0.00	0.00	0.00
SO BUILDHGT B1	0.00	0.00	23.01	23.01	63.18	63.18
SO BUILDHGT B1	63.18	63.18	54.86	54.86	54.86	23.01
SO BUILDHGT B1	23.01	23.01	23.01	0.00	0.00	0.00
SO BUILDHGT B1	0.00	0.00	23.01	23.01	63.18	63.18
SO BUILDHGT B1	63.18	63.18	23.01	54.86	54.86	23.01
SO BUILDWID B1	35.49	35.13	33.71	0.00	0.00	0.00
SO BUILDWID B1	0.00	0.00	31.35	33.56	114.84	102.01
SO BUILDWID B1	86.09	67.55	103.87	104.80	130.45	34.76
SO BUILDWID B1	35.49	35.13	33.71	0.00	0.00	0.00
SO BUILDWID B1	0.00	0.00	31.35	33.56	114.84	102.01
SO BUILDWID B1	86.09	67.55	29.08	104.80	130.45	34.76
SO BUILDLEN B1	33.56	34.75	34.89	0.00	0.00	0.00
SO BUILDLEN B1	0.00	0.00	34.76	35.49	117.26	126.16
SO BUILDLEN B1	131.24	132.33	129.39	56.74	131.35	31.35
SO BUILDLEN B1	33.56	34.75	34.89	0.00	0.00	0.00
SO BUILDLEN B1	0.00	0.00	34.76	35.49	117.26	126.16
SO BUILDLEN B1	131.24	132.33	23.63	56.74	131.35	31.35
SO XBADJ B1	17.12	13.39	9.25	0.00	0.00	0.00
SO XBADJ B1	0.00	0.00	-60.00	-63.19	-233.23	-248.92



SO XBADJ	B1	-257.05	-257.37	-249.87	-164.80	-221.51	-51.68
SO XBADJ	B1	-50.68	-48.14	-44.14	0.00	0.00	0.00
SO XBADJ	B1	0.00	0.00	25.24	27.70	115.97	122.76
SO XBADJ	B1	125.81	125.04	24.29	108.06	90.16	20.33
SO YBADJ	B1	15.35	21.07	26.14	0.00	0.00	0.00
SO YBADJ	B1	0.00	0.00	19.60	11.94	80.01	48.74
SO YBADJ	B1	15.99	-17.25	-21.51	-45.72	-81.36	-9.17
SO YBADJ	B1	-15.35	-21.07	-26.14	0.00	0.00	0.00
SO YBADJ	B1	0.00	0.00	-19.60	-11.94	-80.01	-48.74
SO YBADJ	B1	-15.99	17.25	-10.23	45.72	81.36	9.17

SO BUILDHGT	B2	23.01	23.01	0.00	0.00	0.00	0.00
SO BUILDHGT	B2	0.00	23.01	23.01	47.24	63.18	63.18
SO BUILDHGT	B2	63.18	63.18	54.86	54.86	54.86	23.01
SO BUILDHGT	B2	23.01	23.01	0.00	0.00	0.00	0.00
SO BUILDHGT	B2	0.00	23.01	23.01	47.24	63.18	63.18
SO BUILDHGT	B2	23.01	63.18	23.01	54.86	54.86	23.01
SO BUILDWID	B2	35.49	35.13	0.00	0.00	0.00	0.00
SO BUILDWID	B2	0.00	28.19	31.35	135.53	114.84	102.01
SO BUILDWID	B2	86.09	67.55	103.87	104.80	130.45	34.76
SO BUILDWID	B2	35.49	35.13	0.00	0.00	0.00	0.00
SO BUILDWID	B2	0.00	28.19	31.35	144.24	114.84	102.01
SO BUILDWID	B2	33.96	67.55	29.08	104.80	130.45	34.76
SO BUILDLEN	B2	33.56	34.75	0.00	0.00	0.00	0.00
SO BUILDLEN	B2	0.00	32.98	34.76	106.68	117.26	126.16
SO BUILDLEN	B2	131.24	132.33	129.39	56.74	131.35	31.35
SO BUILDLEN	B2	33.56	34.75	0.00	0.00	0.00	0.00
SO BUILDLEN	B2	0.00	32.98	34.76	183.18	117.26	126.16
SO BUILDLEN	B2	31.27	132.33	23.63	56.74	131.35	31.35
SO XBADJ	B2	9.64	5.01	0.00	0.00	0.00	0.00
SO XBADJ	B2	0.00	-63.03	-67.05	-248.64	-237.68	-251.85
SO XBADJ	B2	-258.37	-257.04	-247.90	-161.25	-216.48	-45.33
SO XBADJ	B2	-43.20	-39.76	0.00	0.00	0.00	0.00
SO XBADJ	B2	0.00	30.06	32.29	65.45	120.42	125.69
SO XBADJ	B2	31.19	124.71	22.32	104.50	85.13	13.98
SO YBADJ	B2	21.19	25.52	0.00	0.00	0.00	0.00
SO YBADJ	B2	0.00	21.64	13.25	86.98	71.64	39.72
SO YBADJ	B2	6.60	-26.73	-30.79	-54.52	-89.41	-16.22
SO YBADJ	B2	-21.19	-25.52	0.00	0.00	0.00	0.00
SO YBADJ	B2	0.00	-21.64	-13.25	-91.34	-71.64	-39.72
SO YBADJ	B2	21.65	26.73	-0.95	54.52	89.41	16.22

SO BUILDHGT	SIKE1	0.00	35.66	35.66	35.66	35.66	35.66
SO BUILDHGT	SIKE1	35.66	57.91	57.91	57.91	57.91	35.66
SO BUILDHGT	SIKE1	35.66	35.66	35.66	30.78	25.90	0.00
SO BUILDHGT	SIKE1	0.00	35.66	35.66	35.66	35.66	35.66
SO BUILDHGT	SIKE1	35.66	30.78	30.78	35.66	35.66	35.66
SO BUILDHGT	SIKE1	35.66	35.66	35.66	30.78	25.90	0.00
SO BUILDWID	SIKE1	0.00	33.02	34.69	35.31	34.86	33.35
SO BUILDWID	SIKE1	30.82	35.85	32.81	36.99	36.99	34.13
SO BUILDWID	SIKE1	35.25	35.29	34.26	30.96	11.34	0.00
SO BUILDWID	SIKE1	0.00	33.02	34.69	35.31	34.86	33.35
SO BUILDWID	SIKE1	30.82	45.09	42.53	28.86	31.98	34.13
SO BUILDWID	SIKE1	35.25	35.29	34.26	30.96	11.34	0.00
SO BUILDLEN	SIKE1	0.00	31.98	34.13	35.25	35.29	34.26
SO BUILDLEN	SIKE1	32.19	32.26	29.04	34.03	37.99	34.69
SO BUILDLEN	SIKE1	35.31	34.86	33.35	25.16	11.34	0.00
SO BUILDLEN	SIKE1	0.00	31.98	34.13	35.25	35.29	34.26
SO BUILDLEN	SIKE1	32.19	32.45	27.12	30.34	33.02	34.69
SO BUILDLEN	SIKE1	35.31	34.86	33.35	25.16	11.34	0.00
SO XBADJ	SIKE1	0.00	-31.20	-37.72	-43.09	-47.16	-49.79
SO XBADJ	SIKE1	-50.91	-141.93	-143.17	-144.46	-141.36	-46.93
SO XBADJ	SIKE1	-43.21	-38.19	-32.00	-41.82	4.84	0.00
SO XBADJ	SIKE1	0.00	-0.78	3.59	7.85	11.87	15.53
SO XBADJ	SIKE1	18.71	18.03	22.54	19.67	16.20	12.24
SO XBADJ	SIKE1	7.90	3.32	-1.35	16.66	-16.19	0.00
SO YBADJ	SIKE1	0.00	32.71	29.58	25.56	20.76	15.32
SO YBADJ	SIKE1	9.42	26.57	4.30	-18.08	-39.91	-20.65

SO YBADJ SIKE1 -25.47 -29.51 -32.66 -27.93 9.69 0.00  
SO YBADJ SIKE1 0.00 -32.71 -29.58 -25.56 -20.76 -15.32  
SO YBADJ SIKE1 -9.42 -12.10 -5.72 9.31 15.21 20.65  
SO YBADJ SIKE1 25.47 29.51 32.66 27.93 -9.69 0.00

\*\*Havco Wood Products - Interactive Source (2014 Reported Actuals)  
SO LOCATION HAVCO20 POINT 804982.086 4126679.779 102.46  
SO LOCATION HAVCO30 POINT 804982.086 4126679.514 102.46  
SO SRCPARAM HAVCO20 0.066 13.716 477.59 10.769 0.6096  
SO SRCPARAM HAVCO30 0.0565 13.1064 477.59 10.3378 0.762

\*\* Buzzi Unicem Kiln Stack  
SO LOCATION BK POINT 807079.804 4130354.775 125  
SO SRCPARAM BK 16.009 64.01 405.37 22.352 3.35

\*\*QC Corp  
SO LOCATION QC5 POINT 801633.158 4126757.96 120  
SO SRCPARAM QC5 0.041 7.62 349.8 12.8 0.762  
SO LOCATION QC6 POINT 801633.158 4126757.96 120  
SO SRCPARAM QC6 0.8135 10.668 355.37 10.03 0.6096

BACKGRND ANNUAL 9.0  
BACKUNIT PPB

SO SRCGROUP AECI B1 B2  
SO SRCGROUP SIKES SIKE1  
SO SRCGROUP HAVCO HAVCO20 HAVCO30  
SO SRCGROUP Buzzi BK  
SO SRCGROUP QC QC5 QC6  
SO SRCGROUP NORANDA EP61 EP62 EP63 EPAB EPAD EPAE EPAF EPAG EPAH EPAN EPBA  
SO SRCGROUP NORANDA EPAI EPAJ EPAK EPAL EPBB EPBC EPBD EP61 EP62 EP63  
SO SRCGROUP NORANDA EPAB EPAD EPAE EPAF EPAG EPAH EPAI EPAJ EPAK EPAL  
SO SRCGROUP NORANDA EPAN EPBA EPBB EPBC EPBD EPBH  
\*\*SO SRCGROUP PLSTKSS EP61 EP62 EP63  
\*\*SO SRCGROUP MELTHOL EPAB EPAD EPAE EPAF EPAG EPAH EPAI EPAJ EPAK EPAL  
\*\*SO SRCGROUP MELTHOL EPAN EPBA EPBB EPBC EPBD  
\*\*SO SRCGROUP EP61 EP61  
\*\*SO SRCGROUP EP62 EP62  
\*\*SO SRCGROUP EP63 EP63  
\*\*SO SRCGROUP EP98 EP98  
\*\*SO SRCGROUP EP99 EP99  
\*\*SO SRCGROUP EPAA EPAA  
\*\*SO SRCGROUP EPAB EPAB  
\*\*SO SRCGROUP EPAD EPAD  
\*\*SO SRCGROUP EPAE EPAE  
\*\*SO SRCGROUP EPAF EPAF  
\*\*SO SRCGROUP EPAG EPAG  
\*\*SO SRCGROUP EPAH EPAH  
\*\*SO SRCGROUP EPAI EPAI  
\*\*SO SRCGROUP EPAJ EPAJ  
\*\*SO SRCGROUP EPAK EPAK  
\*\*SO SRCGROUP EPAL EPAL  
\*\*SO SRCGROUP EPAN EPAN  
\*\*SO SRCGROUP EPBA EPBA  
\*\*SO SRCGROUP EPBB EPBB  
\*\*SO SRCGROUP EPBC EPBC  
\*\*SO SRCGROUP EPBD EPBD  
\*\*SO SRCGROUP EPBH EPBH  
SO SRCGROUP ALL BACKGROUND  
SO FINISHED

RE STARTING  
RE ELEVUNIT METERS  
\*\*Receptor Grid unchanged from original recommendation  
RE FINISHED

ME STARTING  
\*\*AERMET Outputs Dated 3-29-16  
ME SURFFILE KCGI-KSGF-13-15.SFC  
ME PROFFILE KCGI-KSGF-13-15.PFL

ME SURFDATA 03935 2013 CapeGirardeau,MO  
 ME UAIRDATA 13995 2013 SPRINGFIELD,MO  
 ME PROFBASE 107 METERS  
 ME FINISHED  
 OU STARTING  
 OU RECTABLE ALLAVE 4-10  
 OU MAXDCONT ALL 4 THRESH 196.5 Sikeston-Hourly-CEMS-Int-Sources-13-15-Ext.DAT  
 OU SUMMFILE Sikeston-Hourly-CEMS-Int-Sources-13-15-Ext.SUM  
 OU PLOTFILE 1 ALL 4 Sikeston-Hourly-CEMS-Int-Sources-13-15-Ext.PLT  
 OU FINISHED

## Excerpt of Hourly Emissions File for Sikeston (Includes AECI New Madrid B1 & B2 as an Interactive Source)

SO HOUREMIS	13	1	1	1	B1	245.7953811	579.2611111	29.49448
SO HOUREMIS	13	1	1	1	B2	266.8243175	581.4833333	29.22524
SO HOUREMIS	13	1	1	1	SIKE1	263.8129839	405.4069	26.79314126
SO HOUREMIS	13	1	1	2	B1	270.6168339	579.2611111	29.49448
SO HOUREMIS	13	1	1	2	B2	267.1393106	581.4833333	29.22524
SO HOUREMIS	13	1	1	2	SIKE1	270.0624461	405.3019	26.81136697
SO HOUREMIS	13	1	1	3	B1	277.1686894	579.2611111	29.49448
SO HOUREMIS	13	1	1	3	B2	265.5895447	581.4833333	29.22524
SO HOUREMIS	13	1	1	3	SIKE1	269.8734503	403.783	26.78759606
SO HOUREMIS	13	1	1	4	B1	272.2169986	579.2611111	29.49448
SO HOUREMIS	13	1	1	4	B2	271.6374114	581.4833333	29.22524
SO HOUREMIS	13	1	1	4	SIKE1	267.1393106	404.0559	26.80421833
SO HOUREMIS	13	1	1	5	B1	286.4042858	579.2611111	29.49448
SO HOUREMIS	13	1	1	5	B2	222.5236942	581.4833333	29.22524
SO HOUREMIS	13	1	1	5	SIKE1	267.6306997	404.7419	26.78759606
SO HOUREMIS	13	1	1	6	B1	271.9902036	579.2611111	29.49448
SO HOUREMIS	13	1	1	6	B2	221.5157164	581.4833333	29.22524
SO HOUREMIS	13	1	1	6	SIKE1	268.8654725	400.003	26.04929412
SO HOUREMIS	13	1	1	7	B1	302.5823292	579.2611111	29.49448
SO HOUREMIS	13	1	1	7	B2	268.3236844	581.4833333	29.22524
SO HOUREMIS	13	1	1	7	SIKE1	260.3354606	401.319	26.08425828
SO HOUREMIS	13	1	1	8	B1	304.6738831	579.2611111	29.49448
SO HOUREMIS	13	1	1	8	B2	270.5916344	581.4833333	29.22524
SO HOUREMIS	13	1	1	8	SIKE1	262.7042083	400.654	26.03663766
SO HOUREMIS	13	1	1	9	B1	306.62684	579.2611111	29.49448
SO HOUREMIS	13	1	1	9	B2	293.2837342	581.4833333	29.22524
SO HOUREMIS	13	1	1	9	SIKE1	261.5072347	405.0149	26.82954277
SO HOUREMIS	13	1	1	10	B1	307.08043	579.2611111	29.49448
SO HOUREMIS	13	1	1	10	B2	293.2711344	581.4833333	29.22524
SO HOUREMIS	13	1	1	10	SIKE1	269.3568617	401.501	26.06865056
SO HOUREMIS	13	1	1	11	B1	298.6008169	579.2611111	29.49448
SO HOUREMIS	13	1	1	11	B2	293.2081358	581.4833333	29.22524
SO HOUREMIS	13	1	1	11	SIKE1	263.0318011	401.564	26.01718517
SO HOUREMIS	13	1	1	12	B1	298.4244208	579.2611111	29.49448
SO HOUREMIS	13	1	1	12	B2	291.7339683	581.4833333	29.22524
SO HOUREMIS	13	1	1	12	SIKE1	263.1451986	401.984	26.01345754
SO HOUREMIS	13	1	1	13	B1	307.3576239	579.2611111	29.49448
SO HOUREMIS	13	1	1	13	B2	298.6764153	581.4833333	29.22524
SO HOUREMIS	13	1	1	13	SIKE1	263.9011819	402.292	26.02243471
SO HOUREMIS	13	1	1	14	B1	306.4504439	579.2611111	29.49448
SO HOUREMIS	13	1	1	14	B2	309.4995767	581.4833333	29.22524
SO HOUREMIS	13	1	1	14	SIKE1	264.4555697	402.39	25.89388052
SO HOUREMIS	13	1	1	15	B1	305.0266753	579.2611111	29.49448
SO HOUREMIS	13	1	1	15	B2	307.6474175	581.4833333	29.22524
SO HOUREMIS	13	1	1	15	SIKE1	264.6319658	401.368	25.90836378
SO HOUREMIS	13	1	1	16	B1	300.8057683	579.2611111	29.49448
SO HOUREMIS	13	1	1	16	B2	304.9258775	581.4833333	29.22524
SO HOUREMIS	13	1	1	16	SIKE1	262.7924064	401.816	25.9243684
SO HOUREMIS	13	1	1	17	B1	296.8116564	579.2611111	29.49448
SO HOUREMIS	13	1	1	17	B2	305.7448594	581.4833333	29.22524
SO HOUREMIS	13	1	1	17	SIKE1	263.5987886	402.152	25.89767185
SO HOUREMIS	13	1	1	18	B1	293.0443394	579.2611111	29.49448
SO HOUREMIS	13	1	1	18	B2	310.5327539	581.4833333	29.22524
SO HOUREMIS	13	1	1	18	SIKE1	264.2035753	401.739	25.92281598

SO HOUREMIS	13	1	1	19	B1	292.4395528	579.2611111	29.49448
SO HOUREMIS	13	1	1	19	B2	312.8637025	581.4833333	29.22524
SO HOUREMIS	13	1	1	19	SIKE1	263.4601917	400.528	25.93878537
SO HOUREMIS	13	1	1	20	B1	295.0980942	579.2611111	29.49448
SO HOUREMIS	13	1	1	20	B2	307.3450242	581.4833333	29.22524
SO HOUREMIS	13	1	1	20	SIKE1	261.2804397	400.192	25.92592025
SO HOUREMIS	13	1	1	21	B1	295.2492908	579.2611111	29.49448
SO HOUREMIS	13	1	1	21	B2	302.99812	581.4833333	29.22524
SO HOUREMIS	13	1	1	21	SIKE1	260.6756531	400.08	25.96155717
SO HOUREMIS	13	1	1	22	B1	293.6869253	579.2611111	29.49448
SO HOUREMIS	13	1	1	22	B2	295.7910789	581.4833333	29.22524
SO HOUREMIS	13	1	1	22	SIKE1	260.4740575	400.227	25.89611158
SO HOUREMIS	13	1	1	23	B1	282.1707792	579.2611111	29.49448
SO HOUREMIS	13	1	1	23	B2	289.1258258	581.4833333	29.22524
SO HOUREMIS	13	1	1	23	SIKE1	260.7386517	399.2331	25.90457818
SO HOUREMIS	13	1	1	24	B1	290.2220017	579.2611111	29.49448
SO HOUREMIS	13	1	1	24	B2	296.0430733	581.4833333	29.22524
SO HOUREMIS	13	1	1	24	SIKE1	258.9494911	398.8201	25.89075739

## Excerpt of AERMOD Output File for Sikeston

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* SO2 SIKESTON POWER STATION (201-0017) Sikeston with Hourly CEMS fil \*\*\*  
04/07/16

\*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* 2013-2015 Met/CEMS And varying temp and velocity from facility \*\*\* 14:57:09  
PAGE 3359

\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
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AECI	1ST HIGHEST VALUE IS	28.75960 AT ( 811209.50, 4066785.25, 93.06, 93.06, 0.00) DC
	2ND HIGHEST VALUE IS	28.55316 AT ( 810209.50, 4066785.25, 93.25, 93.25, 0.00) DC
	3RD HIGHEST VALUE IS	28.14306 AT ( 812209.50, 4066785.25, 93.29, 93.29, 0.00) DC
	4TH HIGHEST VALUE IS	27.80940 AT ( 810209.50, 4067785.25, 93.32, 93.32, 0.00) DC
	5TH HIGHEST VALUE IS	27.70652 AT ( 813209.50, 4066785.25, 91.91, 91.91, 0.00) DC
	6TH HIGHEST VALUE IS	27.58164 AT ( 811209.50, 4067785.25, 93.74, 93.74, 0.00) DC
	7TH HIGHEST VALUE IS	27.25454 AT ( 805209.50, 4066785.25, 88.49, 88.49, 0.00) DC
	8TH HIGHEST VALUE IS	27.23149 AT ( 808209.50, 4066785.25, 92.57, 92.57, 0.00) DC
	9TH HIGHEST VALUE IS	27.17177 AT ( 814209.50, 4066785.25, 87.09, 87.09, 0.00) DC
	10TH HIGHEST VALUE IS	26.80603 AT ( 809209.50, 4066785.25, 92.97, 92.97, 0.00) DC

SIKES	1ST HIGHEST VALUE IS	69.38284 AT ( 801459.50, 4089035.25, 100.58, 100.58, 0.00) DC
	2ND HIGHEST VALUE IS	68.81452 AT ( 801459.50, 4089285.25, 101.48, 101.48, 0.00) DC
	3RD HIGHEST VALUE IS	67.15245 AT ( 798959.50, 4090035.25, 91.61, 91.61, 0.00) DC
	4TH HIGHEST VALUE IS	67.12198 AT ( 801709.50, 4089535.25, 100.73, 100.73, 0.00) DC
	5TH HIGHEST VALUE IS	66.93902 AT ( 803209.50, 4088035.25, 99.84, 99.84, 0.00) DC
	6TH HIGHEST VALUE IS	66.64003 AT ( 798709.50, 4090285.25, 91.56, 91.56, 0.00) DC
	7TH HIGHEST VALUE IS	66.54212 AT ( 802959.50, 4088035.25, 100.66, 100.66, 0.00) DC
	8TH HIGHEST VALUE IS	66.28809 AT ( 803459.50, 4088285.25, 99.20, 99.20, 0.00) DC
	9TH HIGHEST VALUE IS	66.28398 AT ( 801709.50, 4089785.25, 100.70, 100.70, 0.00) DC
	10TH HIGHEST VALUE IS	66.10538 AT ( 801709.50, 4088785.25, 100.67, 100.67, 0.00) DC

HAVCO	1ST HIGHEST VALUE IS	3.92160 AT ( 805209.50, 4126785.25, 102.08, 102.08, 0.00) DC
	2ND HIGHEST VALUE IS	3.32029 AT ( 808209.50, 4125785.25, 136.80, 140.98, 0.00) DC
	3RD HIGHEST VALUE IS	2.94802 AT ( 811209.50, 4126785.25, 136.64, 159.61, 0.00) DC
	4TH HIGHEST VALUE IS	2.41563 AT ( 802209.50, 4129785.25, 131.87, 140.49, 0.00) DC
	5TH HIGHEST VALUE IS	2.10699 AT ( 805209.50, 4123785.25, 129.68, 129.68, 0.00) DC
	6TH HIGHEST VALUE IS	2.02658 AT ( 810209.50, 4126785.25, 152.49, 152.49, 0.00) DC
	7TH HIGHEST VALUE IS	1.88892 AT ( 798209.50, 4121785.25, 141.94, 174.84, 0.00) DC
	8TH HIGHEST VALUE IS	1.86473 AT ( 817209.50, 4129785.25, 139.25, 182.02, 0.00) DC
	9TH HIGHEST VALUE IS	1.73162 AT ( 804209.50, 4120785.25, 136.45, 159.28, 0.00) DC
	10TH HIGHEST VALUE IS	1.70183 AT ( 800209.50, 4120785.25, 145.99, 152.26, 0.00) DC

BUZZI	1ST HIGHEST VALUE IS	11.28625 AT ( 807209.50, 4129785.25, 103.29, 109.25, 0.00) DC
	2ND HIGHEST VALUE IS	9.45021 AT ( 804209.50, 4129785.25, 110.62, 110.62, 0.00) DC
	3RD HIGHEST VALUE IS	9.24859 AT ( 805209.50, 4129785.25, 121.29, 138.81, 0.00) DC

4TH HIGHEST VALUE IS 9.08730 AT ( 806209.50, 4129785.25, 104.89, 104.89, 0.00) DC  
 5TH HIGHEST VALUE IS 8.85223 AT ( 803209.50, 4129785.25, 119.60, 121.87, 0.00) DC  
 6TH HIGHEST VALUE IS 8.72285 AT ( 807209.50, 4127785.25, 101.00, 101.00, 0.00) DC  
 7TH HIGHEST VALUE IS 8.49412 AT ( 808209.50, 4129785.25, 99.51, 99.51, 0.00) DC  
 8TH HIGHEST VALUE IS 8.30532 AT ( 807209.50, 4128785.25, 102.22, 102.22, 0.00) DC  
 9TH HIGHEST VALUE IS 8.29183 AT ( 800209.50, 4129785.25, 117.16, 131.62, 0.00) DC  
 10TH HIGHEST VALUE IS 8.27105 AT ( 802209.50, 4129785.25, 131.87, 140.49, 0.00) DC

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* SO2 SIKESTON POWER STATION (201-0017) Sikeston with Hourly CEMS fil \*\*\*  
 04/07/16  
 \*\*\* AERMET - VERSION 15181 \*\*\* \*\* 2013-2015 Met/CEMS And varying temp and velocity from facility \*\*\* 14:57:09  
 PAGE 3360

\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

QC 1ST HIGHEST VALUE IS 25.55744 AT ( 801209.50, 4126785.25, 101.69, 101.69, 0.00) DC  
 2ND HIGHEST VALUE IS 22.54204 AT ( 802209.50, 4126785.25, 100.70, 100.70, 0.00) DC  
 3RD HIGHEST VALUE IS 19.19756 AT ( 798209.50, 4121785.25, 141.94, 174.84, 0.00) DC  
 4TH HIGHEST VALUE IS 16.81207 AT ( 801209.50, 4127785.25, 100.44, 100.44, 0.00) DC  
 5TH HIGHEST VALUE IS 15.60943 AT ( 802209.50, 4127785.25, 100.16, 100.16, 0.00) DC  
 6TH HIGHEST VALUE IS 15.53999 AT ( 801209.50, 4125785.25, 100.90, 100.90, 0.00) DC  
 7TH HIGHEST VALUE IS 15.26076 AT ( 800209.50, 4126785.25, 102.32, 102.32, 0.00) DC  
 8TH HIGHEST VALUE IS 15.10877 AT ( 799209.50, 4121785.25, 149.29, 152.86, 0.00) DC  
 9TH HIGHEST VALUE IS 15.03967 AT ( 802209.50, 4125785.25, 101.20, 101.20, 0.00) DC  
 10TH HIGHEST VALUE IS 13.80512 AT ( 800209.50, 4120785.25, 145.99, 152.26, 0.00) DC

NORANDA 1ST HIGHEST VALUE IS 23.35244 AT ( 821209.50, 4129785.25, 202.43, 215.39, 0.00) DC  
 2ND HIGHEST VALUE IS 23.27028 AT ( 821209.50, 4128785.25, 208.38, 212.06, 0.00) DC  
 3RD HIGHEST VALUE IS 21.36951 AT ( 808209.50, 4066785.25, 92.57, 92.57, 0.00) DC  
 4TH HIGHEST VALUE IS 21.17817 AT ( 806209.50, 4066785.25, 94.19, 94.19, 0.00) DC  
 5TH HIGHEST VALUE IS 20.99877 AT ( 809209.50, 4066785.25, 92.97, 92.97, 0.00) DC  
 6TH HIGHEST VALUE IS 20.95595 AT ( 805209.50, 4066785.25, 88.49, 88.49, 0.00) DC  
 7TH HIGHEST VALUE IS 20.56458 AT ( 808209.50, 4067785.25, 92.96, 92.96, 0.00) DC  
 8TH HIGHEST VALUE IS 20.42746 AT ( 807209.50, 4066785.25, 93.02, 93.02, 0.00) DC  
 9TH HIGHEST VALUE IS 20.35764 AT ( 821209.50, 4126785.25, 188.38, 188.38, 0.00) DC  
 10TH HIGHEST VALUE IS 20.27038 AT ( 809209.50, 4067785.25, 93.04, 93.04, 0.00) DC

ALL 1ST HIGHEST VALUE IS 96.13588 AT ( 801459.50, 4089035.25, 100.58, 100.58, 0.00) DC  
 2ND HIGHEST VALUE IS 95.74763 AT ( 801709.50, 4089535.25, 100.73, 100.73, 0.00) DC  
 3RD HIGHEST VALUE IS 95.09257 AT ( 801459.50, 4089285.25, 101.48, 101.48, 0.00) DC  
 4TH HIGHEST VALUE IS 94.12717 AT ( 801709.50, 4089785.25, 100.70, 100.70, 0.00) DC  
 5TH HIGHEST VALUE IS 93.20476 AT ( 801709.50, 4089035.25, 101.03, 101.03, 0.00) DC  
 6TH HIGHEST VALUE IS 92.65962 AT ( 801709.50, 4088785.25, 100.67, 100.67, 0.00) DC  
 7TH HIGHEST VALUE IS 92.19156 AT ( 800709.50, 4089785.25, 91.60, 91.60, 0.00) DC  
 8TH HIGHEST VALUE IS 92.18148 AT ( 801709.50, 4089285.25, 100.70, 100.70, 0.00) DC  
 9TH HIGHEST VALUE IS 91.87248 AT ( 801459.50, 4089535.25, 100.70, 100.70, 0.00) DC  
 10TH HIGHEST VALUE IS 91.71063 AT ( 801709.50, 4088535.25, 100.12, 100.12, 0.00) DC

## Excerpt of AERMOD Input file for Sibley

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 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Control Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*

CO STARTING

TITLEONE SO2 Sibley Designations Modeling 3-28-16  
 CO TITLETWO Hourly CEMS emissions 2013-2015 for KCPL Sibley 20 km tiered grid around facility

\*\*Run with Interactive Sources and hourly CEMS for other sources as available

MODELOPT DFAULT CONC

AVERTIME 1

POLLUTID SO2

RUNORNOT RUN

ERRORFIL Sibley.err

CO FINISHED

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\*\* AERMOD Source Pathway

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SO STARTING

\*\*Interactive Sources

\*\*KS SOURCES

SO LOCATION BPUN1 POINT 353394 4337135 231

SO LOCATION BPUNCT4 POINT 353778 4337052 231

SO LOCATION BPUNNE VOLUME 353308 4337016 232

SO LOCATION BPUNAU X VOLUME 353370 4337090 232

SO LOCATION BPUNBSG VOLUME 353796 4337142 232

SO LOCATION BPUN480 VOLUME 353387 4337195 233

SO LOCATION BPUN481 VOLUME 353359 4337186 232

SO SRCPARAM BPUN1 367.8782966 121.92 424.8166667 13.4112 6.096

\*\*BPUNCT4 at ULSD

SO SRCPARAM BPUNCT4 0.182 17.0688 810.9277778 39.0144 4.51104

\*\*SO SRCPARAM BPUN1 367.8782966 121.92 424.8166667 13.4112 6.096

\*\*SO SRCPARAM BPUNCT4 3.971450656 17.0688 810.9277778 39.0144 4.51104

SO SRCPARAM BPUNNE 0.000057 5 1.1628 4.651

SO SRCPARAM BPUNAU X 0.004481 5 1.1628 4.651

SO SRCPARAM BPUNBSG 0.017704 5 1.1628 4.651

SO SRCPARAM BPUN480 0.000 5 1.1628 4.651

SO SRCPARAM BPUN481 0.000 5 1.1628 4.651

\*\*Quindaro

SO LOCATION BPUQ1 POINT 358576 4334818 236

SO LOCATION BPUQ2 POINT 358581 4334786 236

SO LOCATION BPUQCT1 POINT 358367 4334546 236

SO LOCATION BPUQCT2 POINT 358367 4334550 236

SO LOCATION BPUQCT3 POINT 358367 4334553 236

SO LOCATION BPUQAC VOLUME 358500 4334792 232

SO LOCATION BPUQDC VOLUME 358500 4334794 232

SO LOCATION BPUQAUX VOLUME 358502 4334844 232

\*\*Quindaro Units at CEMS

SO SRCPARAM BPUQ1 97.965 106.68 438.7055556 11.8872 2.538984

SO SRCPARAM BPUQ2 124.53 106.68 436.4833333 25.2984 3.3528

\*\*CT's at ULSD

SO SRCPARAM BPUQCT1 0.0494 12.74765 499.8167 16.82496 4.069385

SO SRCPARAM BPUQCT2 0.1256 9.7536 499.8167 16.82496 4.255008

SO SRCPARAM BPUQCT3 0.1256 9.7536 499.8167 16.82496 4.06908

SO SRCPARAM BPUQAC 0.043659 5 1.1628 4.651

SO SRCPARAM BPUQDC 0.001336 5 1.1628 4.651

SO SRCPARAM BPUQAUX 0.082183 5 1.1628 4.651

\*\*KCPL-Hawthorn

SO LOCATION HAWTH6 POINT 372276.71 4332321.199 225.8568

SO LOCATION HAWTH701 POINT 371923.1724 4332658.793 224.028

SO LOCATION HAWTH801 POINT 371898.7906 4332659.731 224.028

SO LOCATION HAWTH901 POINT 372377.0487 4332171.157 225.8568

\*\*Hawthorn 6 at CEMS (with actual stack height)

SO SRCPARAM HAWTH6 192.76 183.49 368.15 24.3545 6.2002

\*\*\*Hawth CTs at ULSD below

SO SRCPARAM HAWTH701 0.1641 17.0688 690.5574 41.799 4.49746

SO SRCPARAM HAWTH801 0.1641 17.0688 690.5574 41.799 4.49746

SO SRCPARAM HAWTH901 0.4942 62.1792 457.5944 18.5985 6.0944

\*\*SIBLEY

SO LOCATION SIB5A POINT 397714.92 4337276.49 221.89  
SO LOCATION SIB5B POINT 397714.92 4337276.49 221.89  
SO LOCATION SIB5C POINT 397714.92 4337276.49 221.89

\*\*SIBLEY 5A, 5B, 5C at CEMS

SO SRCPARAM SIB5A 254.35 212.14 427.761111 30.1212515 4.1148  
SO SRCPARAM SIB5B 250.66 212.14 427.761111 30.1212515 4.1148  
SO SRCPARAM SIB5C 1759.42 212.14 427.761111 30.1212515 4.1148

\*\*Veolia, KC, MO

SO LOCATION VEP1A POINT 363390.05 4330416.81 232.2576  
SO LOCATION VEP2 POINT 363376.5 4330434 232.2576  
SO LOCATION VEP3 POINT 363422.9 4330428 232.2576

\*\*Veolia at 2014 actuals

SO SRCPARAM VEP1A 0.0001245308 47.55 588.71 14.6 2.13  
SO SRCPARAM VEP2 223.818 85.95 395.93 1.81 5.11  
SO SRCPARAM VEP3 0.00012942 85.95 412.04 1.53 5.11

\*\*Interactive Sources

\*\*Not including IPL MO City shutting down

\*\*St. Mary's Hospital of Blue Springs (Not incl Em Gen)

SO LOCATION STMARY1 POINT 390663.646 4320101.739 286.512  
SO LOCATION STMARY2 POINT 390663.646 4320101.739 286.512  
SO SRCPARAM STMARY1 0.001546 6.096 344.2611 0.001 0.6096  
SO SRCPARAM STMARY2 0.0001839 6.096 344.2611 0.001 0.6096

\*\*Missouri Rock Inc - Orrick

SO LOCATION MR20 VOLUME 401944.943 4343861.337 249.94  
SO SRCPARAM MR20 0.016144 5 1.1628 4.651

\*\*Little Blue Valley Sewer District - Atherton (EXCL. Em Gen/Space heating/zero emitting units)

SO LOCATION LBV1 POINT 385527.547 4335529.775 224.028  
SO LOCATION LBV2 POINT 385527.547 4335529.775 224.028  
SO LOCATION LBV6 POINT 385527.547 4335529.775 224.028  
SO LOCATION LBV7 POINT 385527.547 4335529.775 224.028  
SO LOCATION LBV15 POINT 385527.547 4335529.775 224.028  
SO LOCATION LBV16 POINT 385527.547 4335529.775 224.028

SO SRCPARAM LBV1 2.012E-05 7.4676 433.15 6.5532 0.405384  
SO SRCPARAM LBV2 2.587E-05 7.4676 433.15 6.5532 0.405384  
SO SRCPARAM LBV6 0.001963 25.908 318.70556 17.16024 0.710184  
SO SRCPARAM LBV7 3.737E-05 13.716 755.3722 5.08 0.9144  
SO SRCPARAM LBV15 1.724E-05 7.62 608.4833 8.2296 0.583997  
SO SRCPARAM LBV16 0.007712954 25.908 316.48333 32.1858 0.70104

\*\*Alliant Techsystems Operations - Lake City Army Ammunitions Plant (Excl Em Gen/space heating units and zero emitters)

SO LOCATION AT1 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT2 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT3 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT4 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20A POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20B POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20C POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20D POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20E POINT 391390.445 4328793.502 227.076  
SO LOCATION AT20F POINT 391390.445 4328793.502 227.076  
SO LOCATION AT21 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT24B POINT 391390.445 4328793.502 227.076  
SO LOCATION AT44 POINT 391390.445 4328793.502 227.076  
SO LOCATION AT48 VOLUME 391390.445 4328793.502 227.076

SO SRCPARAM AT1 0.000316 20.7264 449.81667 2.159 1.8288  
SO SRCPARAM AT2 0.0003823 20.7264 449.81667 2.159 1.8288  
SO SRCPARAM AT3 0.000359 20.7264 449.81667 2.159 1.8288  
SO SRCPARAM AT4 0.00018225 20.7264 449.81667 2.159 1.8288  
SO SRCPARAM AT20 0.00165 17.73936 497.5944 8.41248 0.73152

SO SRCPARAM AT20A 0.0001437 7.3152 949.81667 11.16076 0.609  
SO SRCPARAM AT20B 5.1745E-05 2.4384 422.0388 11.41984 0.762  
SO SRCPARAM AT20C 0.00012074 2.4384 477.5944 6.18744 0.762  
SO SRCPARAM AT20D 0.000109241 7.3152 949.81667 11.16076 0.6096  
SO SRCPARAM AT20E 3.737E-05 7.3152 949.816667 11.16076 0.6096  
SO SRCPARAM AT20F 0.000091992 7.3152 949.81667 11.16076 0.6096  
SO SRCPARAM AT21 0.00012074 10.668 322.03889 14.58468 0.3048  
SO SRCPARAM AT24B 0.018639 11.1252 500.927778 6.2788 0.51816  
SO SRCPARAM AT44 0.0006238 4.2672 338.70556 22.12848 0.12192  
SO SRCPARAM AT48 0.000347845 5 1.1628 4.651

\*\*Kansas City Aggregate LLC

SO LOCATION KCA15 POINT 380524.85 4332004.45 235  
SO SRCPARAM KCA15 0.067 3.048 422.038 1.442 0.204

\*\*Courtney Ridge Landfill

SO LOCATION CRL09 VOLUME 380017.63 4333789.377 240  
SO SRCPARAM CRL09 0.0094 2.5 0.6977 2.3256  
SO LOCATION CRL11 VOLUME 380017.63 4333789.377 240  
SO SRCPARAM CRL11 0.0078 2.5 0.6977 2.3256

\*\*APAC-KS-095-0048

SO LOCATION APACKS6 VOLUME 380041.157 4333792.426 240  
SO SRCPARAM APACKS6 0.0316 5 1.1628 4.651

\*\*APAC-KS-095-0061

SO LOCATION APACKS3 POINT 380246.996 4332741.075 247.93  
SO LOCATION APACKS4 VOLUME 380246.996 4332741.075 247.93  
SO SRCPARAM APACKS3 0.0219 7.949 391.92 1.6 1.61  
SO SRCPARAM APACKS4 0.0752 5 1.1628 4.651

\*\*Audubon Materials

SO LOCATION AUD77 POINT 379109.3 4333859.45 243.58  
SO SRCPARAM AUD77 3.358 127.4064 432.15 15.1330152 2.7432

\*\*Blue Valley Units at reported 2014 actual emissions

SO LOCATION BV3 POINT 385311.902 4327808.31 238.22  
SO LOCATION BV4 POINT 385313.564 4327821.132 238.25  
SO LOCATION BV5 POINT 385329.948 4327832.292 238.16  
SO LOCATION BV9 POINT 385299.08 4327842.502 238.32  
\*\*SO SRCPARAM BV3 10.72 46.6344 434.8166667 14.35608 1.6764  
\*\*SO SRCPARAM BV4 21.113 46.6344 453.15 15.78864 1.6764  
\*\*SO SRCPARAM BV5 28.713 75.5 433.15 29.8267374 2.0574  
SO SRCPARAM BV9 0.00001725 34.1376 477.5944 6.88848 0.51816

\*\*Blue valley at natural gas rates as required by MACT by Jan 2016 and MO Rule by Jan 2017

SO SRCPARAM BV3 0.0209 46.6344 434.8166667 14.35608 1.6764  
SO SRCPARAM BV4 0.0209 46.6344 453.15 15.78864 1.6764  
SO SRCPARAM BV5 0.0400 75.5 433.15 29.8267374 2.0574

SO HOUREMIS Combined-Hourly-CEMS-13-15.txt BPUN1 BPUQ1 BPUQ2 HAWTH6 SIB5A SIB5B SIB5C

\*\*BPIP OUTPUTS DATED 3-4-15

SO BUILDHGT SIB5A	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5A	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5A	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5A	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5A	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5A	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDWID SIB5A	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5A	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5A	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDWID SIB5A	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5A	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5A	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDLEN SIB5A	78.79	57.39	76.59	80.43	81.84	80.76
SO BUILDLEN SIB5A	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5A	49.66	59.72	67.97	74.16	78.09	79.65
SO BUILDLEN SIB5A	78.79	57.39	76.59	80.43	81.84	80.76



SO BUILDLEN SIB5A	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5A	49.66	59.72	67.97	74.16	78.09	79.65
SO XBADJ SIB5A	-84.86	-62.44	-78.75	-76.52	-71.97	-65.23
SO XBADJ SIB5A	-56.51	-46.07	-34.23	-21.35	-7.82	2.03
SO XBADJ SIB5A	2.99	3.87	4.62	5.23	5.69	5.97
SO XBADJ SIB5A	6.07	5.05	2.16	-3.91	-9.87	-15.53
SO XBADJ SIB5A	-20.73	-25.29	-29.08	-31.99	-33.93	-40.12
SO XBADJ SIB5A	-52.65	-63.59	-72.59	-79.39	-83.78	-85.62
SO YBADJ SIB5A	-5.32	49.23	11.42	-27.82	-33.73	-38.61
SO YBADJ SIB5A	-42.31	-44.73	-45.79	-45.46	-43.75	-40.46
SO YBADJ SIB5A	-36.31	-31.05	-24.85	-17.89	-10.39	-2.57
SO YBADJ SIB5A	5.32	-49.23	-11.42	27.82	33.73	38.61
SO YBADJ SIB5A	42.31	44.73	45.80	45.46	43.75	40.46
SO YBADJ SIB5A	36.31	31.05	24.85	17.89	10.39	2.57

SO BUILDHGT SIB5B	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5B	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5B	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5B	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5B	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5B	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDWID SIB5B	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5B	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5B	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDWID SIB5B	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5B	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5B	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDLEN SIB5B	78.79	57.39	76.59	80.43	81.84	80.76
SO BUILDLEN SIB5B	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5B	49.66	59.72	67.97	74.16	78.09	79.65
SO BUILDLEN SIB5B	78.79	57.39	76.59	80.43	81.84	80.76
SO BUILDLEN SIB5B	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5B	49.66	59.72	67.97	74.16	78.09	79.65
SO XBADJ SIB5B	-84.86	-62.44	-78.75	-76.52	-71.97	-65.23
SO XBADJ SIB5B	-56.51	-46.07	-34.23	-21.35	-7.82	2.03
SO XBADJ SIB5B	2.99	3.87	4.62	5.23	5.69	5.97
SO XBADJ SIB5B	6.07	5.05	2.16	-3.91	-9.87	-15.53
SO XBADJ SIB5B	-20.73	-25.29	-29.08	-31.99	-33.93	-40.12
SO XBADJ SIB5B	-52.65	-63.59	-72.59	-79.39	-83.78	-85.62
SO YBADJ SIB5B	-5.32	49.23	11.42	-27.82	-33.73	-38.61
SO YBADJ SIB5B	-42.31	-44.73	-45.79	-45.46	-43.75	-40.46
SO YBADJ SIB5B	-36.31	-31.05	-24.85	-17.89	-10.39	-2.57
SO YBADJ SIB5B	5.32	-49.23	-11.42	27.82	33.73	38.61
SO YBADJ SIB5B	42.31	44.73	45.80	45.46	43.75	40.46
SO YBADJ SIB5B	36.31	31.05	24.85	17.89	10.39	2.57

SO BUILDHGT SIB5C	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5C	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5C	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5C	60.66	49.38	49.38	60.66	60.66	60.66
SO BUILDHGT SIB5C	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDHGT SIB5C	60.66	60.66	60.66	60.66	60.66	60.66
SO BUILDWID SIB5C	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5C	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5C	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDWID SIB5C	53.34	49.82	103.07	49.66	59.72	67.97
SO BUILDWID SIB5C	74.16	78.09	79.65	78.79	75.53	76.58
SO BUILDWID SIB5C	80.43	81.84	80.76	77.23	71.36	63.31
SO BUILDLEN SIB5C	78.79	57.39	76.59	80.43	81.84	80.76
SO BUILDLEN SIB5C	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5C	49.66	59.72	67.97	74.16	78.09	79.65
SO BUILDLEN SIB5C	78.79	57.39	76.59	80.43	81.84	80.76
SO BUILDLEN SIB5C	77.23	71.36	63.31	53.34	41.75	38.08
SO BUILDLEN SIB5C	49.66	59.72	67.97	74.16	78.09	79.65
SO XBADJ SIB5C	-84.86	-62.44	-78.75	-76.52	-71.97	-65.23
SO XBADJ SIB5C	-56.51	-46.07	-34.23	-21.35	-7.82	2.03
SO XBADJ SIB5C	2.99	3.87	4.62	5.23	5.69	5.97
SO XBADJ SIB5C	6.07	5.05	2.16	-3.91	-9.87	-15.53

SO XBADJ SIB5C -20.73 -25.29 -29.08 -31.99 -33.93 -40.12  
SO XBADJ SIB5C -52.65 -63.59 -72.59 -79.39 -83.78 -85.62  
SO YBADJ SIB5C -5.32 49.23 11.42 -27.82 -33.73 -38.61  
SO YBADJ SIB5C -42.31 -44.73 -45.79 -45.46 -43.75 -40.46  
SO YBADJ SIB5C -36.31 -31.05 -24.85 -17.89 -10.39 -2.57  
SO YBADJ SIB5C 5.32 -49.23 -11.42 27.82 33.73 38.61  
SO YBADJ SIB5C 42.31 44.73 45.80 45.46 43.75 40.46  
SO YBADJ SIB5C 36.31 31.05 24.85 17.89 10.39 2.57

BACKGRND ANNUAL 13.0  
BACKUNIT PPB

SO SRCGROUP BPUN BPUN1 BPUNCT4 BPUNNE BPUNAUx BPUNBSG BPUN480 BPUN481  
SO SRCGROUP BPUQ BPUQ1 BPUQ2 BPUQCT1 BPUQCT2 BPUQCT3 BPUQAC BPUQDC BPUQAUX  
SO SRCGROUP Hawthorn HAWTH6 HAWTH701 HAWTH801 HAWTH901  
SO SRCGROUP Veolia VEP1A VEP2 VEP3  
SO SRCGROUP STMARY STMARY1 STMARY2  
SO SRCGROUP MR MR20  
SO SRCGROUP LBV LBV1-LBV16  
SO SRCGROUP AT AT1-AT48  
SO SRCGROUP SIBLEY SIB5A SIB5B SIB5C  
SO SRCGROUP APACKS34 APACKS3 APACKS4  
SO SRCGROUP APACKS6 APACKS6  
SO SRCGROUP BV BV3 BV4 BV5 BV9  
SO SRCGROUP CRL CRL09 CRL11  
SO SRCGROUP AUD AUD77  
SO SRCGROUP KCA KCA15  
SO SRCGROUP ALL BACKGROUND

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*  
\*\*20 km tiered grid around Sibley  
\*\*

RE STARTING

\*\* AERMAP - VERSION 11103 03/03/15  
\*\* 16:40:55  
\*\* KCPL Sibley Elevation Extraction  
\*\* MDNR 3-3-15  
\*\* A total of 18 NED files were used  
\*\* A total of 4022 receptors were processed  
\*\* DOMAINXY 364205 4304582 15 427441 4365172 15  
\*\* ANCHORXY 397714.92 4337276.49 397714.92 4337276.49 15 4  
\*\* Terrain heights were extracted by default

RE ELEVUNIT METERS

\*\*Receptor Grid unchanged from original recommendation  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*Met data files dated 3-28-16

ME STARTING

SURFFILE KMCI-KTOP-13-15.SFC  
PROFFILE KMCI-KTOP-13-15.PFL  
SURFDATA 03947 2013 KCI 39.29 94.73  
UAIRDATA 13996 2013 TOPEKA/MUNICIPAL\_ARPT  
PROFBASE 313.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 4-10

OU SUMMFILE Sibley-CEMS-INT-MAXDCONTALL20kgrid-13-15.SUM

OU MAXDCONT ALL 4 THRESH 196.5 Sibley-CEMS-INT-MAXDCONTALL20kgrid-13-15.DAT

OU PLOTFILE 1 ALL 4TH Sibley-CEMS-INT-01H4GALL20kgrid-13-15.PLT

OU FINISHED

## Excerpt of Hourly Emissions File for Sibley (Includes Interactive Source Hourly Emissions; BPU Quindaro, BPU Nearman, and KCPL Hawthorn)

SO HOUREMIS	13	1	1	1	BPUN1	105.9888633	424.82	13.41
SO HOUREMIS	13	1	1	1	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	1	BPUQ2	43.22964694	436.48	25.3
SO HOUREMIS	13	1	1	1	HAWTH6	40.53330639	368.15	24.3545
SO HOUREMIS	13	1	1	1	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	1	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	1	SIB5C	140.3987047	427.76111	30.12125
SO HOUREMIS	13	1	1	2	BPUN1	109.1387939	424.82	13.41
SO HOUREMIS	13	1	1	2	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	2	BPUQ2	43.28004583	436.48	25.3
SO HOUREMIS	13	1	1	2	HAWTH6	68.45429083	368.15	24.3545
SO HOUREMIS	13	1	1	2	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	2	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	2	SIB5C	140.8144956	427.76111	30.12125
SO HOUREMIS	13	1	1	3	BPUN1	111.4193436	424.82	13.41
SO HOUREMIS	13	1	1	3	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	3	BPUQ2	43.96043083	436.48	25.3
SO HOUREMIS	13	1	1	3	HAWTH6	42.72565806	368.15	24.3545
SO HOUREMIS	13	1	1	3	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	3	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	3	SIB5C	140.8522947	427.76111	30.12125
SO HOUREMIS	13	1	1	4	BPUN1	112.4777203	424.82	13.41
SO HOUREMIS	13	1	1	4	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	4	BPUQ2	43.46904167	436.48	25.3
SO HOUREMIS	13	1	1	4	HAWTH6	43.75883528	368.15	24.3545
SO HOUREMIS	13	1	1	4	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	4	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	4	SIB5C	141.7972739	427.76111	30.12125
SO HOUREMIS	13	1	1	5	BPUN1	112.03673	424.82	13.41
SO HOUREMIS	13	1	1	5	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	5	BPUQ2	43.46904167	436.48	25.3
SO HOUREMIS	13	1	1	5	HAWTH6	46.26618	368.15	24.3545
SO HOUREMIS	13	1	1	5	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	5	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	5	SIB5C	154.67419	427.76111	30.12125
SO HOUREMIS	13	1	1	6	BPUN1	132.5112786	424.82	13.41
SO HOUREMIS	13	1	1	6	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	6	BPUQ2	43.98563028	436.48	25.3
SO HOUREMIS	13	1	1	6	HAWTH6	48.43333222	368.15	24.3545
SO HOUREMIS	13	1	1	6	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	6	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	6	SIB5C	169.8316558	427.76111	30.12125
SO HOUREMIS	13	1	1	7	BPUN1	163.6577919	424.82	13.41
SO HOUREMIS	13	1	1	7	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	7	BPUQ2	44.03602917	436.48	25.3
SO HOUREMIS	13	1	1	7	HAWTH6	47.26155806	368.15	24.3545
SO HOUREMIS	13	1	1	7	SIB5A	0	427.76111	30.12125
SO HOUREMIS	13	1	1	7	SIB5B	0	427.76111	30.12125
SO HOUREMIS	13	1	1	7	SIB5C	169.8568553	427.76111	30.12125
SO HOUREMIS	13	1	1	8	BPUN1	133.5696553	424.82	13.41
SO HOUREMIS	13	1	1	8	BPUQ1	0	438.71	11.89
SO HOUREMIS	13	1	1	8	BPUQ2	44.90541	436.48	25.3
SO HOUREMIS	13	1	1	8	HAWTH6	48.58452889	368.15	24.3545
SO HOUREMIS	13	1	1	8	SIB5A	0	427.76111	30.12125

SO HOUREMIS	13	1	1	8	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	8	SIB5C	176.1945156	427.76111	30.12125	
SO HOUREMIS	13	1	1	9	BPUN1	114.30468	424.82	13.41	
SO HOUREMIS	13	1	1	9	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	9	BPUQ2	48.21913694	436.48	25.3	
SO HOUREMIS	13	1	1	9	HAWTH6	44.30062333	368.15	24.3545	
SO HOUREMIS	13	1	1	9	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	9	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	9	SIB5C	172.8807886	427.76111	30.12125	
SO HOUREMIS	13	1	1	10	BPUN1	98.69362417	424.82	13.41	
SO HOUREMIS	13	1	1	10	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	10	BPUQ2	57.13974028	436.48	25.3	
SO HOUREMIS	13	1	1	10	HAWTH6	45.38419944	368.15	24.3545	
SO HOUREMIS	13	1	1	10	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	10	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	10	SIB5C	170.7010367	427.76111	30.12125	
SO HOUREMIS	13	1	1	11	BPUN1	92.25516611	424.82	13.41	
SO HOUREMIS	13	1	1	11	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	11	BPUQ2	61.72603917	436.48	25.3	
SO HOUREMIS	13	1	1	11	HAWTH6	44.46441972	368.15	24.3545	
SO HOUREMIS	13	1	1	11	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	11	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	11	SIB5C	170.4742417	427.76111	30.12125	
SO HOUREMIS	13	1	1	12	BPUN1	85.19932167	424.82	13.41	
SO HOUREMIS	13	1	1	12	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	12	BPUQ2	61.65044083	436.48	25.3	
SO HOUREMIS	13	1	1	12	HAWTH6	44.64081583	368.15	24.3545	
SO HOUREMIS	13	1	1	12	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	12	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	12	SIB5C	169.5166628	427.76111	30.12125	
SO HOUREMIS	13	1	1	13	BPUN1	85.98050444	424.82	13.41	
SO HOUREMIS	13	1	1	13	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	13	BPUQ2	62.63321917	436.48	25.3	
SO HOUREMIS	13	1	1	13	HAWTH6	43.62023833	368.15	24.3545	
SO HOUREMIS	13	1	1	13	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	13	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	13	SIB5C	168.3448886	427.76111	30.12125	
SO HOUREMIS	13	1	1	14	BPUN1	89.30683111	424.82	13.41	
SO HOUREMIS	13	1	1	14	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	14	BPUQ2	63.21280639	436.48	25.3	
SO HOUREMIS	13	1	1	14	HAWTH6	44.96840861	368.15	24.3545	
SO HOUREMIS	13	1	1	14	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	14	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	14	SIB5C	169.3906656	427.76111	30.12125	
SO HOUREMIS	13	1	1	15	BPUN1	93.86793056	424.82	13.41	
SO HOUREMIS	13	1	1	15	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	15	BPUQ2	62.62061944	436.48	25.3	
SO HOUREMIS	13	1	1	15	HAWTH6	45.57319528	368.15	24.3545	
SO HOUREMIS	13	1	1	15	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	15	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	15	SIB5C	173.044585	427.76111	30.12125	
SO HOUREMIS	13	1	1	16	BPUN1	96.40047472	424.82	13.41	
SO HOUREMIS	13	1	1	16	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	16	BPUQ2	62.16702944	436.48	25.3	
SO HOUREMIS	13	1	1	16	HAWTH6	43.79663444	368.15	24.3545	
SO HOUREMIS	13	1	1	16	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	16	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	16	SIB5C	172.7925906	427.76111	30.12125	
SO HOUREMIS	13	1	1	17	BPUN1	112.5785181	424.82	13.41	
SO HOUREMIS	13	1	1	17	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	17	BPUQ2	61.90243528	436.48	25.3	
SO HOUREMIS	13	1	1	17	HAWTH6	45.6991925	368.15	24.3545	
SO HOUREMIS	13	1	1	17	SIB5A	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	17	SIB5B	0	427.76111	30.12125	
SO HOUREMIS	13	1	1	17	SIB5C	173.0697844	427.76111	30.12125	
SO HOUREMIS	13	1	1	18	BPUN1	140.3105067	424.82	13.41	
SO HOUREMIS	13	1	1	18	BPUQ1	0	438.71	11.89	
SO HOUREMIS	13	1	1	18	BPUQ2	62.04103222	436.48	25.3	
SO HOUREMIS	13	1	1	18	HAWTH6	44.52741833	368.15	24.3545	
SO HOUREMIS	13	1	1	18	SIB5A	0	427.76111	30.12125	

SO HOUREMIS 13 1 1 18 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 18 SIB5C 178.0214753 427.76111 30.12125  
SO HOUREMIS 13 1 1 19 BPUN1 140.5877006 424.82 13.41  
SO HOUREMIS 13 1 1 19 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 19 BPUQ2 61.39844639 436.48 25.3  
SO HOUREMIS 13 1 1 19 HAWTH6 45.2456025 368.15 24.3545  
SO HOUREMIS 13 1 1 19 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 19 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 19 SIB5C 174.7203481 427.76111 30.12125  
SO HOUREMIS 13 1 1 20 BPUN1 138.9749361 424.82 13.41  
SO HOUREMIS 13 1 1 20 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 20 BPUQ2 61.81423722 436.48 25.3  
SO HOUREMIS 13 1 1 20 HAWTH6 45.05660667 368.15 24.3545  
SO HOUREMIS 13 1 1 20 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 20 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 20 SIB5C 171.7090144 427.76111 30.12125  
SO HOUREMIS 13 1 1 21 BPUN1 141.97367 424.82 13.41  
SO HOUREMIS 13 1 1 21 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 21 BPUQ2 61.52444361 436.48 25.3  
SO HOUREMIS 13 1 1 21 HAWTH6 44.52741833 368.15 24.3545  
SO HOUREMIS 13 1 1 21 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 21 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 21 SIB5C 168.9244758 427.76111 30.12125  
SO HOUREMIS 13 1 1 22 BPUN1 154.4095958 424.82 13.41  
SO HOUREMIS 13 1 1 22 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 22 BPUQ2 62.20482861 436.48 25.3  
SO HOUREMIS 13 1 1 22 HAWTH6 44.36362194 368.15 24.3545  
SO HOUREMIS 13 1 1 22 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 22 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 22 SIB5C 168.8614772 427.76111 30.12125  
SO HOUREMIS 13 1 1 23 BPUN1 144.7708083 424.82 13.41  
SO HOUREMIS 13 1 1 23 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 23 BPUQ2 61.90243528 436.48 25.3  
SO HOUREMIS 13 1 1 23 HAWTH6 45.45979778 368.15 24.3545  
SO HOUREMIS 13 1 1 23 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 23 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 23 SIB5C 170.9152319 427.76111 30.12125  
SO HOUREMIS 13 1 1 24 BPUN1 130.7095183 424.82 13.41  
SO HOUREMIS 13 1 1 24 BPUQ1 0 438.71 11.89  
SO HOUREMIS 13 1 1 24 BPUQ2 51.15487222 436.48 25.3  
SO HOUREMIS 13 1 1 24 HAWTH6 47.34975611 368.15 24.3545  
SO HOUREMIS 13 1 1 24 SIB5A 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 24 SIB5B 0 427.76111 30.12125  
SO HOUREMIS 13 1 1 24 SIB5C 170.1466489 427.76111 30.12125

## Excerpt of AERMOD Output file for Sibley

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* SO2 Sibley Designations Modeling 3-28-16 \*\*\* 04/04/16  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* Hourly CEMS emissions 2013-2015 for KCPL Sibley 20 km tiered grid ar \*\*\* 09:20:04  
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\*\*MODELOPTs: RegDEFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
BPUN	15.48971	AT( 377714.91, 4333276.50, 301.48, 302.10, 0.00) DC
2ND HIGHEST VALUE IS	14.89970	AT( 378714.91, 4333276.50, 265.88, 297.66, 0.00) DC
3RD HIGHEST VALUE IS	14.78827	AT( 377714.91, 4334276.50, 222.99, 311.99, 0.00) DC
4TH HIGHEST VALUE IS	14.56822	AT( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC
5TH HIGHEST VALUE IS	14.54065	AT( 377714.91, 4332276.50, 267.98, 289.51, 0.00) DC
6TH HIGHEST VALUE IS	14.42405	AT( 379714.91, 4332276.50, 276.48, 276.48, 0.00) DC
7TH HIGHEST VALUE IS	14.40166	AT( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC

8TH HIGHEST VALUE IS 14.26859 AT ( 378714.91, 4334276.50, 263.65, 300.65, 0.00) DC  
9TH HIGHEST VALUE IS 14.24339 AT ( 380714.91, 4332276.50, 258.14, 274.33, 0.00) DC  
10TH HIGHEST VALUE IS 14.20520 AT ( 377714.91, 4346276.50, 263.91, 302.48, 0.00) DC

BPUQ 1ST HIGHEST VALUE IS 12.28610 AT ( 377714.91, 4333276.50, 301.48, 302.10, 0.00) DC  
2ND HIGHEST VALUE IS 11.66383 AT ( 378714.91, 4333276.50, 265.88, 297.66, 0.00) DC  
3RD HIGHEST VALUE IS 11.57953 AT ( 377714.91, 4326276.50, 313.76, 313.76, 0.00) DC  
4TH HIGHEST VALUE IS 11.53196 AT ( 377714.91, 4332276.50, 267.98, 289.51, 0.00) DC  
5TH HIGHEST VALUE IS 11.43366 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC  
6TH HIGHEST VALUE IS 11.26586 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC  
7TH HIGHEST VALUE IS 11.17851 AT ( 377714.91, 4342276.50, 246.75, 251.19, 0.00) DC  
8TH HIGHEST VALUE IS 11.16609 AT ( 377714.91, 4323276.50, 285.22, 285.22, 0.00) DC  
9TH HIGHEST VALUE IS 11.11071 AT ( 379714.91, 4332276.50, 276.48, 276.48, 0.00) DC  
10TH HIGHEST VALUE IS 11.07901 AT ( 377714.91, 4334276.50, 222.99, 311.99, 0.00) DC

HAWTHORN 1ST HIGHEST VALUE IS 10.56864 AT ( 377714.91, 4335276.50, 221.67, 221.67, 0.00) DC  
2ND HIGHEST VALUE IS 10.33711 AT ( 377714.91, 4333276.50, 301.48, 302.10, 0.00) DC  
3RD HIGHEST VALUE IS 10.09959 AT ( 377714.91, 4337276.50, 221.43, 221.43, 0.00) DC  
4TH HIGHEST VALUE IS 10.07122 AT ( 378714.91, 4334276.50, 263.65, 300.65, 0.00) DC  
5TH HIGHEST VALUE IS 9.66188 AT ( 377714.91, 4343276.50, 249.11, 253.94, 0.00) DC  
6TH HIGHEST VALUE IS 9.64896 AT ( 377714.91, 4334276.50, 222.99, 311.99, 0.00) DC  
7TH HIGHEST VALUE IS 9.62940 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC  
8TH HIGHEST VALUE IS 9.51973 AT ( 379714.91, 4336276.50, 215.45, 222.47, 0.00) DC  
9TH HIGHEST VALUE IS 9.32592 AT ( 379714.91, 4338276.50, 221.69, 221.69, 0.00) DC  
10TH HIGHEST VALUE IS 9.22861 AT ( 377714.91, 4342276.50, 246.75, 251.19, 0.00) DC

VEOLIA 1ST HIGHEST VALUE IS 155.92416 AT ( 377714.91, 4327276.50, 317.15, 317.15, 0.00) DC  
2ND HIGHEST VALUE IS 126.79148 AT ( 377714.91, 4326276.50, 313.76, 313.76, 0.00) DC  
3RD HIGHEST VALUE IS 115.42452 AT ( 377714.91, 4329276.50, 312.58, 312.58, 0.00) DC  
4TH HIGHEST VALUE IS 115.18735 AT ( 377714.91, 4325276.50, 311.19, 311.19, 0.00) DC  
5TH HIGHEST VALUE IS 93.27986 AT ( 377714.91, 4324276.50, 311.13, 311.13, 0.00) DC  
6TH HIGHEST VALUE IS 74.38667 AT ( 379714.91, 4330276.50, 305.71, 307.11, 0.00) DC  
7TH HIGHEST VALUE IS 73.77869 AT ( 378714.91, 4350276.50, 309.34, 309.34, 0.00) DC  
8TH HIGHEST VALUE IS 72.71642 AT ( 377714.91, 4328276.50, 304.84, 304.84, 0.00) DC  
9TH HIGHEST VALUE IS 71.00608 AT ( 402714.91, 4354276.50, 323.65, 323.65, 0.00) DC  
10TH HIGHEST VALUE IS 66.61897 AT ( 378714.91, 4329276.50, 304.54, 310.49, 0.00) DC

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* SO2 Sibley Designations Modeling 3-28-16 \*\*\* 04/04/16  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* Hourly CEMS emissions 2013-2015 for KCPL Sibley 20 km tiered grid ar \*\*\* 09:20:04  
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\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
-----

STMARY 1ST HIGHEST VALUE IS 3.14451 AT ( 390714.91, 4320276.50, 287.56, 287.56, 0.00) DC  
2ND HIGHEST VALUE IS 0.84340 AT ( 389714.91, 4320276.50, 292.64, 292.64, 0.00) DC  
3RD HIGHEST VALUE IS 0.58011 AT ( 389714.91, 4319276.50, 285.51, 285.51, 0.00) DC  
4TH HIGHEST VALUE IS 0.54889 AT ( 391714.91, 4320276.50, 285.03, 286.28, 0.00) DC  
5TH HIGHEST VALUE IS 0.48876 AT ( 390714.91, 4319276.50, 273.21, 278.08, 0.00) DC  
6TH HIGHEST VALUE IS 0.46733 AT ( 390714.91, 4321276.50, 282.04, 282.04, 0.00) DC  
7TH HIGHEST VALUE IS 0.44872 AT ( 389714.91, 4321276.50, 296.11, 296.11, 0.00) DC  
8TH HIGHEST VALUE IS 0.34597 AT ( 391714.91, 4319276.50, 273.96, 278.17, 0.00) DC  
9TH HIGHEST VALUE IS 0.31216 AT ( 391714.91, 4321276.50, 282.83, 282.83, 0.00) DC  
10TH HIGHEST VALUE IS 0.31010 AT ( 388714.91, 4320276.50, 286.98, 286.98, 0.00) DC

MR 1ST HIGHEST VALUE IS 16.67417 AT ( 401714.91, 4343776.50, 225.14, 300.01, 0.00) DC  
2ND HIGHEST VALUE IS 7.34093 AT ( 401714.91, 4343276.50, 220.46, 300.01, 0.00) DC  
3RD HIGHEST VALUE IS 6.17427 AT ( 401214.91, 4343776.50, 220.07, 220.07, 0.00) DC  
4TH HIGHEST VALUE IS 5.18919 AT ( 401214.91, 4343276.50, 220.85, 220.85, 0.00) DC  
5TH HIGHEST VALUE IS 5.02602 AT ( 402214.91, 4343276.50, 262.64, 300.01, 0.00) DC  
6TH HIGHEST VALUE IS 4.94819 AT ( 401214.91, 4344776.50, 246.96, 258.73, 0.00) DC  
7TH HIGHEST VALUE IS 4.86348 AT ( 401214.91, 4344276.50, 221.28, 289.72, 0.00) DC  
8TH HIGHEST VALUE IS 4.75444 AT ( 402714.91, 4344276.50, 241.35, 297.14, 0.00) DC

9TH HIGHEST VALUE IS 4.38133 AT ( 401714.91, 4344776.50, 261.27, 291.11, 0.00) DC  
10TH HIGHEST VALUE IS 4.00011 AT ( 402214.91, 4342776.50, 218.69, 300.01, 0.00) DC

LBV 1ST HIGHEST VALUE IS 0.27177 AT ( 383714.91, 4336276.50, 265.88, 273.73, 0.00) DC  
2ND HIGHEST VALUE IS 0.23536 AT ( 387714.91, 4333776.50, 270.30, 285.88, 0.00) DC  
3RD HIGHEST VALUE IS 0.23245 AT ( 384714.91, 4333276.50, 263.57, 265.73, 0.00) DC  
4TH HIGHEST VALUE IS 0.22924 AT ( 382714.91, 4335276.50, 267.50, 267.50, 0.00) DC  
5TH HIGHEST VALUE IS 0.22674 AT ( 388214.91, 4335776.50, 267.32, 267.32, 0.00) DC  
6TH HIGHEST VALUE IS 0.21635 AT ( 387714.91, 4335276.50, 265.83, 267.39, 0.00) DC  
7TH HIGHEST VALUE IS 0.21491 AT ( 383714.91, 4333276.50, 263.52, 268.95, 0.00) DC  
8TH HIGHEST VALUE IS 0.20327 AT ( 387714.91, 4334276.50, 277.69, 279.67, 0.00) DC  
9TH HIGHEST VALUE IS 0.19828 AT ( 388214.91, 4334776.50, 269.22, 274.10, 0.00) DC  
10TH HIGHEST VALUE IS 0.18348 AT ( 384714.91, 4334276.50, 257.19, 263.03, 0.00) DC

AT 1ST HIGHEST VALUE IS 0.64699 AT ( 391214.91, 4328776.50, 226.77, 226.77, 0.00) DC  
2ND HIGHEST VALUE IS 0.43022 AT ( 391714.91, 4328776.50, 226.35, 226.35, 0.00) DC  
3RD HIGHEST VALUE IS 0.34840 AT ( 391214.91, 4328276.50, 227.50, 227.50, 0.00) DC  
4TH HIGHEST VALUE IS 0.32590 AT ( 391214.91, 4329276.50, 224.38, 224.38, 0.00) DC  
5TH HIGHEST VALUE IS 0.30366 AT ( 390714.91, 4328776.50, 228.23, 228.23, 0.00) DC  
6TH HIGHEST VALUE IS 0.28674 AT ( 391714.91, 4329276.50, 225.12, 226.20, 0.00) DC  
7TH HIGHEST VALUE IS 0.28635 AT ( 391714.91, 4328276.50, 225.87, 274.15, 0.00) DC  
8TH HIGHEST VALUE IS 0.26831 AT ( 390714.91, 4328276.50, 227.46, 227.46, 0.00) DC  
9TH HIGHEST VALUE IS 0.26300 AT ( 392214.91, 4328776.50, 227.90, 287.16, 0.00) DC  
10TH HIGHEST VALUE IS 0.24872 AT ( 391214.91, 4329776.50, 229.79, 229.79, 0.00) DC

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\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
-----

SIBLEY 1ST HIGHEST VALUE IS 56.51757 AT ( 394214.91, 4337026.50, 251.81, 251.81, 0.00) DC  
2ND HIGHEST VALUE IS 56.00207 AT ( 394464.91, 4337026.50, 260.61, 260.61, 0.00) DC  
3RD HIGHEST VALUE IS 55.60451 AT ( 394714.91, 4337026.50, 258.95, 258.95, 0.00) DC  
4TH HIGHEST VALUE IS 55.55629 AT ( 394964.91, 4337026.50, 256.93, 256.93, 0.00) DC  
5TH HIGHEST VALUE IS 52.46254 AT ( 395214.91, 4337026.50, 246.30, 249.77, 0.00) DC  
6TH HIGHEST VALUE IS 51.16999 AT ( 394714.91, 4336776.50, 261.33, 261.33, 0.00) DC  
7TH HIGHEST VALUE IS 50.99695 AT ( 394464.91, 4336776.50, 261.20, 261.20, 0.00) DC  
8TH HIGHEST VALUE IS 50.63888 AT ( 394214.91, 4336776.50, 261.08, 261.08, 0.00) DC  
9TH HIGHEST VALUE IS 50.49220 AT ( 394214.91, 4337276.50, 257.69, 257.69, 0.00) DC  
10TH HIGHEST VALUE IS 50.22113 AT ( 394214.91, 4336526.50, 258.83, 258.83, 0.00) DC

APACKS34 1ST HIGHEST VALUE IS 36.26474 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC  
2ND HIGHEST VALUE IS 30.05753 AT ( 380714.91, 4332276.50, 258.14, 274.33, 0.00) DC  
3RD HIGHEST VALUE IS 15.49622 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC  
4TH HIGHEST VALUE IS 15.08462 AT ( 380714.91, 4334276.50, 254.38, 259.85, 0.00) DC  
5TH HIGHEST VALUE IS 13.09800 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC  
6TH HIGHEST VALUE IS 11.52920 AT ( 379714.91, 4332276.50, 276.48, 276.48, 0.00) DC  
7TH HIGHEST VALUE IS 9.72791 AT ( 381714.91, 4334276.50, 258.34, 263.05, 0.00) DC  
8TH HIGHEST VALUE IS 8.04515 AT ( 378714.91, 4334276.50, 263.65, 300.65, 0.00) DC  
9TH HIGHEST VALUE IS 7.93041 AT ( 380714.91, 4333276.50, 280.05, 284.26, 0.00) DC  
10TH HIGHEST VALUE IS 6.59464 AT ( 379714.91, 4335276.50, 222.72, 222.72, 0.00) DC

APACKS6 1ST HIGHEST VALUE IS 17.03571 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC  
2ND HIGHEST VALUE IS 10.07658 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC  
3RD HIGHEST VALUE IS 6.68007 AT ( 380714.91, 4334276.50, 254.38, 259.85, 0.00) DC  
4TH HIGHEST VALUE IS 5.62174 AT ( 379714.91, 4335276.50, 222.72, 222.72, 0.00) DC  
5TH HIGHEST VALUE IS 4.52102 AT ( 380714.91, 4335276.50, 221.03, 264.41, 0.00) DC  
6TH HIGHEST VALUE IS 3.90457 AT ( 378714.91, 4335276.50, 223.30, 225.87, 0.00) DC  
7TH HIGHEST VALUE IS 3.11522 AT ( 377714.91, 4334276.50, 222.99, 311.99, 0.00) DC  
8TH HIGHEST VALUE IS 3.07693 AT ( 381714.91, 4334276.50, 258.34, 263.05, 0.00) DC  
9TH HIGHEST VALUE IS 3.06387 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC

10TH HIGHEST VALUE IS 2.98816 AT ( 380714.91, 4332276.50, 258.14, 274.33, 0.00) DC

BV 1ST HIGHEST VALUE IS 0.13329 AT ( 377714.91, 4325276.50, 311.19, 311.19, 0.00) DC
2ND HIGHEST VALUE IS 0.13275 AT ( 377714.91, 4326276.50, 313.76, 313.76, 0.00) DC
3RD HIGHEST VALUE IS 0.13201 AT ( 377714.91, 4327276.50, 317.15, 317.15, 0.00) DC
4TH HIGHEST VALUE IS 0.13078 AT ( 377714.91, 4324276.50, 311.13, 311.13, 0.00) DC
5TH HIGHEST VALUE IS 0.12794 AT ( 385714.91, 4328276.50, 232.48, 232.48, 0.00) DC
6TH HIGHEST VALUE IS 0.12552 AT ( 377714.91, 4329276.50, 312.58, 312.58, 0.00) DC
7TH HIGHEST VALUE IS 0.11328 AT ( 384714.91, 4328276.50, 240.83, 240.83, 0.00) DC
8TH HIGHEST VALUE IS 0.11323 AT ( 385714.91, 4327276.50, 227.74, 227.74, 0.00) DC
9TH HIGHEST VALUE IS 0.10728 AT ( 384714.91, 4327276.50, 234.72, 234.72, 0.00) DC
10TH HIGHEST VALUE IS 0.09075 AT ( 379714.91, 4330276.50, 305.71, 307.11, 0.00) DC

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\* SO2 Sibley Designations Modeling 3-28-16 \*\*\* 04/04/16
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\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

CRL 1ST HIGHEST VALUE IS 12.01876 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC
2ND HIGHEST VALUE IS 7.42736 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC
3RD HIGHEST VALUE IS 4.37150 AT ( 380714.91, 4334276.50, 254.38, 259.85, 0.00) DC
4TH HIGHEST VALUE IS 3.80519 AT ( 379714.91, 4335276.50, 222.72, 222.72, 0.00) DC
5TH HIGHEST VALUE IS 2.98914 AT ( 380714.91, 4335276.50, 221.03, 264.41, 0.00) DC
6TH HIGHEST VALUE IS 2.70472 AT ( 378714.91, 4335276.50, 223.30, 225.87, 0.00) DC
7TH HIGHEST VALUE IS 2.16365 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC
8TH HIGHEST VALUE IS 2.03730 AT ( 380714.91, 4332276.50, 258.14, 274.33, 0.00) DC
9TH HIGHEST VALUE IS 1.99668 AT ( 381714.91, 4334276.50, 258.34, 263.05, 0.00) DC
10TH HIGHEST VALUE IS 1.97359 AT ( 377714.91, 4334276.50, 222.99, 311.99, 0.00) DC

AUD 1ST HIGHEST VALUE IS 1.63532 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC
2ND HIGHEST VALUE IS 1.59084 AT ( 378714.91, 4333276.50, 265.88, 297.66, 0.00) DC
3RD HIGHEST VALUE IS 1.57904 AT ( 378714.91, 4334276.50, 263.65, 300.65, 0.00) DC
4TH HIGHEST VALUE IS 1.56195 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC
5TH HIGHEST VALUE IS 1.52617 AT ( 378714.91, 4336276.50, 221.11, 221.11, 0.00) DC
6TH HIGHEST VALUE IS 1.50547 AT ( 377714.91, 4333276.50, 301.48, 302.10, 0.00) DC
7TH HIGHEST VALUE IS 1.46315 AT ( 379714.91, 4337276.50, 221.72, 221.72, 0.00) DC
8TH HIGHEST VALUE IS 1.46286 AT ( 379714.91, 4336276.50, 215.45, 222.47, 0.00) DC
9TH HIGHEST VALUE IS 1.45577 AT ( 378714.91, 4331276.50, 277.63, 277.63, 0.00) DC
10TH HIGHEST VALUE IS 1.45053 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC

KCA 1ST HIGHEST VALUE IS 18.19540 AT ( 380714.91, 4332276.50, 258.14, 274.33, 0.00) DC
2ND HIGHEST VALUE IS 7.95163 AT ( 379714.91, 4333276.50, 253.22, 266.38, 0.00) DC
3RD HIGHEST VALUE IS 6.97266 AT ( 379714.91, 4334276.50, 249.62, 249.62, 0.00) DC
4TH HIGHEST VALUE IS 5.29293 AT ( 379714.91, 4332276.50, 276.48, 276.48, 0.00) DC
5TH HIGHEST VALUE IS 4.73863 AT ( 380714.91, 4334276.50, 254.38, 259.85, 0.00) DC
6TH HIGHEST VALUE IS 4.57006 AT ( 380714.91, 4331276.50, 284.30, 295.10, 0.00) DC
7TH HIGHEST VALUE IS 4.55097 AT ( 381714.91, 4328276.50, 244.80, 268.73, 0.00) DC
8TH HIGHEST VALUE IS 4.45160 AT ( 379714.91, 4335276.50, 222.72, 222.72, 0.00) DC
9TH HIGHEST VALUE IS 4.12246 AT ( 378714.91, 4335276.50, 223.30, 225.87, 0.00) DC
10TH HIGHEST VALUE IS 4.03041 AT ( 378714.91, 4332276.50, 256.80, 268.06, 0.00) DC

ALL 1ST HIGHEST VALUE IS 189.93019 AT ( 377714.91, 4327276.50, 317.15, 317.15, 0.00) DC
2ND HIGHEST VALUE IS 164.00217 AT ( 377714.91, 4326276.50, 313.76, 313.76, 0.00) DC
3RD HIGHEST VALUE IS 149.43043 AT ( 377714.91, 4329276.50, 312.58, 312.58, 0.00) DC
4TH HIGHEST VALUE IS 149.20741 AT ( 377714.91, 4325276.50, 311.19, 311.19, 0.00) DC
5TH HIGHEST VALUE IS 133.67974 AT ( 377714.91, 4324276.50, 311.13, 311.13, 0.00) DC
6TH HIGHEST VALUE IS 111.23659 AT ( 379714.91, 4330276.50, 305.71, 307.11, 0.00) DC
7TH HIGHEST VALUE IS 110.67340 AT ( 377714.91, 4328276.50, 304.84, 304.84, 0.00) DC
8TH HIGHEST VALUE IS 107.78456 AT ( 378714.91, 4350276.50, 309.34, 309.34, 0.00) DC
9TH HIGHEST VALUE IS 105.01823 AT ( 402714.91, 4354276.50, 323.65, 323.65, 0.00) DC
10TH HIGHEST VALUE IS 104.02545 AT ( 378714.91, 4329276.50, 304.54, 310.49, 0.00) DC



# Labadie Scenario 1: Modeled as Separate Source Releases

## Excerpt of AERMOD Input file for Ameren Labadie

CO STARTING  
CO TITLEONE Ameren Missouri Labadie Facility Hourly Emissions File Run 13-15 20 km multi tier rec grid  
CO TITLETWO Including Interactive sources  
CO MODELOPT DFAULT CONC  
CO AVERTIME 1  
CO POLLUTID SO2  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS

\*\*Ameren Labadie

\*\*Boiler #1

\*\*

SO LOCATION LABADIE1 Point 688352.17 4270445.59 149.66  
SO SRCPARAM LABADIE1 681.056344 213.36 443.0648912 34.72064305 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions.txt LABADIE1

\*\*Boiler #2

\*\*

SO LOCATION LABADIE2 Point 688387.01 4270400.40 149.66  
SO SRCPARAM LABADIE2 537.229763 213.36 442.4920016 35.55833613 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions.txt LABADIE2

\*\*Boiler #3

\*\*

SO LOCATION LABADIE3 Point 688435.47 4270332.33 149.66  
SO SRCPARAM LABADIE3 605.810409 213.36 433.2043723 34.51691769 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions.txt LABADIE3

\*\*Boiler #4

\*\*

SO LOCATION LABADIE4 Point 688439.28 4270327.43 149.66  
SO SRCPARAM LABADIE4 637.788672 213.36 441.7078451 34.94594478 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions.txt LABADIE4

\*\*Emergency Diesel Generator

\*\*operates 8736 hr per year so it was included. Emission are released through a stack

SO LOCATION LABADIE5 Point 688439.28 4270327.43 149.66  
SO SRCPARAM LABADIE5 0.002307653 9.144 866.4833333 7.112 0.3048

\*\*BPIP Outputs Dated January 11, 2012

SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19

SO XBADJ	LABADIE1	-88.14	-56.63	-23.40	10.55	44.17	41.54
SO XBADJ	LABADIE1	34.41	26.23	17.26	7.76	-1.97	-11.65
SO XBADJ	LABADIE1	-20.97	-30.23	-28.68	-57.59	-69.96	-80.21
SO XBADJ	LABADIE1	-88.02	-93.15	-95.46	-94.86	-91.38	-117.82
SO XBADJ	LABADIE1	-146.49	-170.71	-189.75	-203.02	-210.12	-210.84
SO XBADJ	LABADIE1	-205.15	-189.77	-200.83	-163.22	-142.26	-116.98
SO YBADJ	LABADIE1	-105.39	-104.07	-99.60	-92.09	-81.79	-67.87
SO YBADJ	LABADIE1	-52.81	-36.15	-18.38	-0.06	18.26	36.03
SO YBADJ	LABADIE1	52.71	25.71	-16.96	90.45	98.47	103.50
SO YBADJ	LABADIE1	105.39	104.07	99.60	92.09	81.79	67.87
SO YBADJ	LABADIE1	52.81	36.15	18.38	0.06	-18.26	-36.03
SO YBADJ	LABADIE1	-52.71	-25.71	16.96	-90.45	-98.47	-103.51

SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE2	-49.69	-26.08	-1.68	22.77	46.53	33.97
SO XBADJ	LABADIE2	17.13	-0.23	-17.58	-34.40	-50.17	-64.41
SO XBADJ	LABADIE2	-76.70	-87.24	-100.02	-111.97	-120.52	-125.40
SO XBADJ	LABADIE2	-126.47	-123.70	-117.17	-107.09	-93.74	-110.24
SO XBADJ	LABADIE2	-129.21	-144.25	-154.91	-160.86	-161.93	-158.07
SO XBADJ	LABADIE2	-149.41	-132.76	-122.66	-108.84	-91.71	-71.79
SO YBADJ	LABADIE2	-63.23	-55.88	-46.83	-36.35	-24.78	-11.32
SO YBADJ	LABADIE2	1.57	14.40	26.81	38.39	48.81	57.75
SO YBADJ	LABADIE2	64.93	28.07	72.10	73.17	72.01	68.66
SO YBADJ	LABADIE2	63.23	55.88	46.83	36.35	24.78	11.32
SO YBADJ	LABADIE2	-1.57	-14.40	-26.81	-38.39	-48.81	-57.75
SO YBADJ	LABADIE2	-64.93	-28.07	-72.10	-73.17	-72.01	-68.66

SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE3	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE3	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE3	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE3	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE3	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE3	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE3	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE3	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE3	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE3	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE3	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE3	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE3	8.93	21.31	33.04	43.77	53.16	26.03
SO XBADJ	LABADIE3	-5.13	-36.13	-66.04	-93.94	-118.99	-140.42
SO XBADJ	LABADIE3	-177.41	-174.21	-183.20	-192.51	-195.97	-193.47
SO XBADJ	LABADIE3	-185.09	-171.09	-151.89	-128.08	-100.38	-102.31
SO XBADJ	LABADIE3	-106.95	-108.35	-106.45	-101.32	-93.11	-82.07
SO XBADJ	LABADIE3	-53.30	-56.15	-39.48	-28.30	-16.26	-3.72

SO YBADJ	LABADIE3	-3.69	12.94	29.17	44.52	58.52	71.86
SO YBADJ	LABADIE3	82.11	89.86	94.88	97.01	96.20	92.47
SO YBADJ	LABADIE3	-13.38	-23.94	64.17	50.91	36.11	20.20
SO YBADJ	LABADIE3	3.69	-12.94	-29.17	-44.52	-58.52	-71.86
SO YBADJ	LABADIE3	-82.11	-89.86	-94.88	-97.01	-96.20	-92.47
SO YBADJ	LABADIE3	13.38	23.94	-64.17	-50.91	-36.11	-20.20

SO BUILDHGT	LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE4	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE4	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE4	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE4	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE4	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE4	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE4	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE4	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE4	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE4	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE4	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE4	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE4	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE4	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE4	13.09	24.61	35.38	45.07	53.39	25.18
SO XBADJ	LABADIE4	-7.03	-39.03	-69.85	-98.54	-124.24	-146.17
SO XBADJ	LABADIE4	-183.47	-180.41	-189.35	-198.42	-201.45	-198.37
SO XBADJ	LABADIE4	-189.26	-174.40	-154.23	-129.39	-100.61	-101.46
SO XBADJ	LABADIE4	-105.05	-105.45	-102.64	-96.72	-87.85	-76.32
SO XBADJ	LABADIE4	-47.23	-49.95	-33.33	-22.39	-10.77	1.18
SO YBADJ	LABADIE4	0.91	18.20	34.92	50.59	64.72	78.01
SO YBADJ	LABADIE4	88.01	95.34	99.78	101.18	99.50	94.81
SO YBADJ	LABADIE4	-12.08	-23.71	63.32	49.01	33.21	16.39
SO YBADJ	LABADIE4	-0.91	-18.20	-34.92	-50.59	-64.72	-78.01
SO YBADJ	LABADIE4	-88.01	-95.34	-99.78	-101.18	-99.50	-94.81
SO YBADJ	LABADIE4	12.08	23.71	-63.32	-49.01	-33.21	-16.39

\*\*Using Reported Actual 2013 Emissions for Interactive SOURces Below

\*\*Purina Animal Nutrition Center  
 \*\*Corrected UTM from aerial photo  
 \*\*100 HP Boiler  
 \*\*Reported as Stack but no release parameters given, assume volume paramters for boiler.  
 SO LOCATION EU\_10 VOLUME 689107.65 4262863.7 172  
 SO SRCPARAM EU\_10 0.0409 5 1.1628 4.651

\*\*N.B. West Contracting CO INC  
 \*\*Drag Slat Conveyer  
 \*\*No information regarding this source so assume volume source parameters for boiler w/o parameters.  
 SO LOCATION EP17 Volume 695196.752 4262475.068 159  
 SO SRCPARAM EP17 0.07385 5 1.1628 4.651

\*\*Aggregate Dryer w/Burner and rotary mixer  
 \*\*Corrected UTMs from aerial  
 SO LOCATION EP5 Point 695174.86 4262540.03 159  
 SO SRCPARAM EP5 0.0116 7.62 376.15 5.526 0.9144

\*\*AC Heater/Burner  
 \*\*Corrected UTMs from aerial  
 \*\*No exit temp or emission velocity provided. Assumed Temp=298.15K Emission Velocity=0.001 m/s  
 SO LOCATION S2 Point 695174.86 4262540.03 159  
 SO SRCPARAM S2 0.01759 2.7432 298.15 0.001 0.24384

BACKGRND ANNUAL 9.0  
 BACKUNIT PPB

SO SRCGROUP Purina EU\_10

SO SRCGROUP NBWEST EP17 EP5 S2  
SO SRCGROUP Lab LABADIE1 LABADIE2 LABADIE3 LABADIE4 LABADIE5  
SO SRCGROUP ALL BACKGROUND

SO FINISHED

RE STARTING

\*\*20 km Extent Tiered Rec Grid  
\*\* AERMAP - VERSION 11103 10/29/14  
\*\* 13:09:02  
\*\* Labadie  
\*\* Receptor Elevations  
\*\* A total of 5 NED files were used  
\*\* A total of 5628 receptors were processed  
\*\* DOMAINXY 665000 4245000 15 715000 4295000 15  
\*\* ANCHORXY 688484.5 4270373.88 688484.5 4270373.88 15 4  
\*\* Terrain heights were extracted by default

RE ELEVUNIT METERS

\*\*Receptor Grid unchanged from original recommendation  
RE FINISHED

ME STARTING

ME SURFFILE \JEFILX\_13-15.SFC  
ME PROFFILE \JEFILX\_13-15.PFL  
ME SURFDATA 03963 2013 Jefferson\_City,MO  
ME UAIRDATA 04833 2013 Lincoln, Ill  
ME PROFBASE 167 Meters  
ME FINISHED

OU STARTING

OU RECTABLE ALLAVE 4-10  
OU SUMMFILE Ameren\_Labadie-20km-13-15-Int.SUM  
OU PLOTFILE 1 ALL 4 Ameren\_Labadie\_Plotfile\_20km-13-15-Int.PLT  
OU MAXDCONT All 4 THRESH 196.5 Ameren\_Labadie\_MAXDCONT\_20km-13-15-Int.DAT  
OU FINISHED

## Excerpt of Hourly Emissions File for Labadie

SO HOUREMIS	13	1	1	1	LABADIE1	422.3678883	443.06	34.72
SO HOUREMIS	13	1	1	1	LABADIE2	339.6129128	442.49	35.558
SO HOUREMIS	13	1	1	1	LABADIE3	244.6866056	433.204	34.52
SO HOUREMIS	13	1	1	1	LABADIE4	494.3123022	441.707	34.95
SO HOUREMIS	13	1	1	2	LABADIE1	428.3023575	443.06	34.72
SO HOUREMIS	13	1	1	2	LABADIE2	336.11019	442.49	35.558
SO HOUREMIS	13	1	1	2	LABADIE3	239.3191239	433.204	34.52
SO HOUREMIS	13	1	1	2	LABADIE4	485.6436933	441.707	34.95
SO HOUREMIS	13	1	1	3	LABADIE1	439.5665092	443.06	34.72
SO HOUREMIS	13	1	1	3	LABADIE2	340.7468878	442.49	35.558
SO HOUREMIS	13	1	1	3	LABADIE3	238.6387389	433.204	34.52
SO HOUREMIS	13	1	1	3	LABADIE4	486.7272694	441.707	34.95
SO HOUREMIS	13	1	1	4	LABADIE1	419.2557569	443.06	34.72
SO HOUREMIS	13	1	1	4	LABADIE2	340.419295	442.49	35.558
SO HOUREMIS	13	1	1	4	LABADIE3	342.5990469	433.204	34.52
SO HOUREMIS	13	1	1	4	LABADIE4	456.2863406	441.707	34.95
SO HOUREMIS	13	1	1	5	LABADIE1	397.1558442	443.06	34.72
SO HOUREMIS	13	1	1	5	LABADIE2	346.5553597	442.49	35.558
SO HOUREMIS	13	1	1	5	LABADIE3	423.879855	433.204	34.52
SO HOUREMIS	13	1	1	5	LABADIE4	436.3787794	441.707	34.95
SO HOUREMIS	13	1	1	6	LABADIE1	416.0176283	443.06	34.72
SO HOUREMIS	13	1	1	6	LABADIE2	350.17148	442.49	35.558
SO HOUREMIS	13	1	1	6	LABADIE3	429.6757272	433.204	34.52
SO HOUREMIS	13	1	1	6	LABADIE4	441.6832625	441.707	34.95
SO HOUREMIS	13	1	1	7	LABADIE1	425.6186167	443.06	34.72
SO HOUREMIS	13	1	1	7	LABADIE2	348.6847128	442.49	35.558
SO HOUREMIS	13	1	1	7	LABADIE3	433.3422464	433.204	34.52
SO HOUREMIS	13	1	1	7	LABADIE4	467.0339036	441.707	34.95
SO HOUREMIS	13	1	1	8	LABADIE1	441.6202639	443.06	34.72

SO HOUREMIS	13	1	1	8	LABADIE2	356.9249311	442.49	35.558
SO HOUREMIS	13	1	1	8	LABADIE3	458.4786922	433.204	34.52
SO HOUREMIS	13	1	1	8	LABADIE4	483.6277378	441.707	34.95
SO HOUREMIS	13	1	1	9	LABADIE1	447.3909367	443.06	34.72
SO HOUREMIS	13	1	1	9	LABADIE2	375.8245144	442.49	35.558
SO HOUREMIS	13	1	1	9	LABADIE3	468.7096667	433.204	34.52
SO HOUREMIS	13	1	1	9	LABADIE4	491.6285614	441.707	34.95
SO HOUREMIS	13	1	1	10	LABADIE1	480.578605	443.06	34.72
SO HOUREMIS	13	1	1	10	LABADIE2	376.93329	442.49	35.558
SO HOUREMIS	13	1	1	10	LABADIE3	473.321165	433.204	34.52
SO HOUREMIS	13	1	1	10	LABADIE4	516.4374144	441.707	34.95
SO HOUREMIS	13	1	1	11	LABADIE1	486.9540644	443.06	34.72
SO HOUREMIS	13	1	1	11	LABADIE2	376.9962886	442.49	35.558
SO HOUREMIS	13	1	1	11	LABADIE3	479.4194306	433.204	34.52
SO HOUREMIS	13	1	1	11	LABADIE4	524.0854458	441.707	34.95
SO HOUREMIS	13	1	1	12	LABADIE1	455.2153642	443.06	34.72
SO HOUREMIS	13	1	1	12	LABADIE2	379.1004422	442.49	35.558
SO HOUREMIS	13	1	1	12	LABADIE3	481.6999803	433.204	34.52
SO HOUREMIS	13	1	1	12	LABADIE4	486.7776683	441.707	34.95
SO HOUREMIS	13	1	1	13	LABADIE1	463.3547847	443.06	34.72
SO HOUREMIS	13	1	1	13	LABADIE2	369.1718611	442.49	35.558
SO HOUREMIS	13	1	1	13	LABADIE3	485.114505	433.204	34.52
SO HOUREMIS	13	1	1	13	LABADIE4	482.9599525	441.707	34.95
SO HOUREMIS	13	1	1	14	LABADIE1	456.7399306	443.06	34.72
SO HOUREMIS	13	1	1	14	LABADIE2	349.1761019	442.49	35.558
SO HOUREMIS	13	1	1	14	LABADIE3	461.2758306	433.204	34.52
SO HOUREMIS	13	1	1	14	LABADIE4	484.7491131	441.707	34.95
SO HOUREMIS	13	1	1	15	LABADIE1	469.5916472	443.06	34.72
SO HOUREMIS	13	1	1	15	LABADIE2	357.0887275	442.49	35.558
SO HOUREMIS	13	1	1	15	LABADIE3	475.7025125	433.204	34.52
SO HOUREMIS	13	1	1	15	LABADIE4	475.4379183	441.707	34.95
SO HOUREMIS	13	1	1	16	LABADIE1	465.7739314	443.06	34.72
SO HOUREMIS	13	1	1	16	LABADIE2	356.4587414	442.49	35.558
SO HOUREMIS	13	1	1	16	LABADIE3	468.2308772	433.204	34.52
SO HOUREMIS	13	1	1	16	LABADIE4	464.4383608	441.707	34.95
SO HOUREMIS	13	1	1	17	LABADIE1	458.0251022	443.06	34.72
SO HOUREMIS	13	1	1	17	LABADIE2	341.7548656	442.49	35.558
SO HOUREMIS	13	1	1	17	LABADIE3	460.4190494	433.204	34.52
SO HOUREMIS	13	1	1	17	LABADIE4	468.2056778	441.707	34.95
SO HOUREMIS	13	1	1	18	LABADIE1	454.8625719	443.06	34.72
SO HOUREMIS	13	1	1	18	LABADIE2	341.7170664	442.49	35.558
SO HOUREMIS	13	1	1	18	LABADIE3	430.683705	433.204	34.52
SO HOUREMIS	13	1	1	18	LABADIE4	463.9469717	441.707	34.95
SO HOUREMIS	13	1	1	19	LABADIE1	443.2834272	443.06	34.72
SO HOUREMIS	13	1	1	19	LABADIE2	337.5087592	442.49	35.558
SO HOUREMIS	13	1	1	19	LABADIE3	435.4715994	433.204	34.52
SO HOUREMIS	13	1	1	19	LABADIE4	434.2872256	441.707	34.95
SO HOUREMIS	13	1	1	20	LABADIE1	440.7634828	443.06	34.72
SO HOUREMIS	13	1	1	20	LABADIE2	320.1841411	442.49	35.558
SO HOUREMIS	13	1	1	20	LABADIE3	427.0423853	433.204	34.52
SO HOUREMIS	13	1	1	20	LABADIE4	450.8936594	441.707	34.95
SO HOUREMIS	13	1	1	21	LABADIE1	438.394735	443.06	34.72
SO HOUREMIS	13	1	1	21	LABADIE2	315.1694517	442.49	35.558
SO HOUREMIS	13	1	1	21	LABADIE3	419.3691544	433.204	34.52
SO HOUREMIS	13	1	1	21	LABADIE4	441.1036753	441.707	34.95
SO HOUREMIS	13	1	1	22	LABADIE1	434.8794125	443.06	34.72
SO HOUREMIS	13	1	1	22	LABADIE2	316.5302217	442.49	35.558
SO HOUREMIS	13	1	1	22	LABADIE3	406.8954294	433.204	34.52
SO HOUREMIS	13	1	1	22	LABADIE4	440.4484897	441.707	34.95
SO HOUREMIS	13	1	1	23	LABADIE1	433.1910497	443.06	34.72
SO HOUREMIS	13	1	1	23	LABADIE2	312.9015017	442.49	35.558
SO HOUREMIS	13	1	1	23	LABADIE3	400.1797775	433.204	34.52
SO HOUREMIS	13	1	1	23	LABADIE4	424.3964436	441.707	34.95
SO HOUREMIS	13	1	1	24	LABADIE1	404.8920736	443.06	34.72
SO HOUREMIS	13	1	1	24	LABADIE2	304.3336906	442.49	35.558
SO HOUREMIS	13	1	1	24	LABADIE3	361.6876261	433.204	34.52
SO HOUREMIS	13	1	1	24	LABADIE4	338.2773422	441.707	34.95

# Excerpt of AERMOD Output File for Labadie

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* Ameren Missouri Labadie Facility Hourly Emissions File Run 13-15 20 \*\*\* 03/21/16  
\*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* Including Interactive sources \*\*\* 14:16:51

PAGE 2060

\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
-----

PURINA 1ST HIGHEST VALUE IS 42.66702 AT ( 688846.44, 4263075.50, 165.70, 178.75, 0.00) DC  
2ND HIGHEST VALUE IS 41.82770 AT ( 689346.44, 4262575.50, 181.07, 202.63, 0.00) DC  
3RD HIGHEST VALUE IS 23.59439 AT ( 688346.44, 4263075.50, 175.90, 175.90, 0.00) DC  
4TH HIGHEST VALUE IS 23.59439 AT ( 688346.44, 4263075.50, 175.90, 175.90, 0.00) DC  
5TH HIGHEST VALUE IS 20.81422 AT ( 688346.44, 4262575.50, 179.35, 182.68, 0.00) DC  
6TH HIGHEST VALUE IS 19.26734 AT ( 689346.44, 4262075.50, 183.19, 183.19, 0.00) DC  
7TH HIGHEST VALUE IS 19.26734 AT ( 689346.44, 4262075.50, 183.19, 183.19, 0.00) DC  
8TH HIGHEST VALUE IS 18.38084 AT ( 688846.44, 4263575.50, 182.34, 182.34, 0.00) DC  
9TH HIGHEST VALUE IS 16.80324 AT ( 689846.44, 4262575.50, 183.79, 203.43, 0.00) DC  
10TH HIGHEST VALUE IS 16.73039 AT ( 689346.44, 4263075.50, 188.46, 188.46, 0.00) DC

NBWEST 1ST HIGHEST VALUE IS 127.20166 AT ( 695346.44, 4262575.50, 166.43, 247.17, 0.00) DC  
2ND HIGHEST VALUE IS 104.20032 AT ( 695346.44, 4262075.50, 157.77, 196.69, 0.00) DC  
3RD HIGHEST VALUE IS 104.20032 AT ( 695346.44, 4262075.50, 157.77, 196.69, 0.00) DC  
4TH HIGHEST VALUE IS 103.69656 AT ( 694846.44, 4262575.50, 162.23, 245.02, 0.00) DC  
5TH HIGHEST VALUE IS 72.04175 AT ( 695846.44, 4262075.50, 156.96, 156.96, 0.00) DC  
6TH HIGHEST VALUE IS 65.72825 AT ( 694846.44, 4262075.50, 164.99, 221.97, 0.00) DC  
7TH HIGHEST VALUE IS 39.96304 AT ( 695346.44, 4261575.50, 146.36, 146.36, 0.00) DC  
8TH HIGHEST VALUE IS 38.20016 AT ( 695846.44, 4261575.50, 152.29, 152.29, 0.00) DC  
9TH HIGHEST VALUE IS 31.31004 AT ( 695846.44, 4261075.50, 163.11, 163.11, 0.00) DC  
10TH HIGHEST VALUE IS 30.68238 AT ( 696346.44, 4261575.50, 146.89, 229.43, 0.00) DC

LAB 1ST HIGHEST VALUE IS 177.61451 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
2ND HIGHEST VALUE IS 177.61451 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
3RD HIGHEST VALUE IS 176.96240 AT ( 686096.44, 4272825.50, 164.71, 266.77, 0.00) DC  
4TH HIGHEST VALUE IS 176.54238 AT ( 686096.44, 4272075.50, 164.47, 164.47, 0.00) DC  
5TH HIGHEST VALUE IS 176.11487 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
6TH HIGHEST VALUE IS 176.11487 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
7TH HIGHEST VALUE IS 174.62512 AT ( 686096.44, 4272325.50, 160.92, 259.59, 0.00) DC  
8TH HIGHEST VALUE IS 174.49146 AT ( 686596.44, 4272575.50, 182.88, 259.59, 0.00) DC  
9TH HIGHEST VALUE IS 174.11406 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
10TH HIGHEST VALUE IS 174.11406 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC

ALL 1ST HIGHEST VALUE IS 201.16975 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
2ND HIGHEST VALUE IS 201.16975 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
3RD HIGHEST VALUE IS 200.52429 AT ( 686096.44, 4272825.50, 164.71, 266.77, 0.00) DC  
4TH HIGHEST VALUE IS 200.09267 AT ( 686096.44, 4272075.50, 164.47, 164.47, 0.00) DC  
5TH HIGHEST VALUE IS 199.67232 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
6TH HIGHEST VALUE IS 199.67232 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
7TH HIGHEST VALUE IS 198.18543 AT ( 686096.44, 4272325.50, 160.92, 259.59, 0.00) DC  
8TH HIGHEST VALUE IS 198.04969 AT ( 686596.44, 4272575.50, 182.88, 259.59, 0.00) DC  
9TH HIGHEST VALUE IS 197.67566 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
10TH HIGHEST VALUE IS 197.67566 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC

# Labadie Scenario 2: Modeled as Merged/Single Source Release

## Excerpt of AERMOD Input file for Ameren Labadie

CO STARTING  
CO TITLEONE Ameren Missouri Labadie Facility Hourly Emissions File Run 13-15 20 km multi tier rec grid  
CO TITLETWO Including Interactive sources Merged Plume  
CO MODELOPT DFAULT CONC  
CO AVERTIME 1  
CO POLLUTID SO2  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS

\*\*Ameren Labadie

\*\*Boiler #1  
\*\*

SO LOCATION LABADIE1 Point 688352.17 4270445.59 149.66  
SO SRCPARAM LABADIE1 681.056344 213.36 443.0648912 34.72064305 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions-Merged.txt LABADIE1

\*\*Boiler #2  
\*\*

SO LOCATION LABADIE2 Point 688387.01 4270400.40 149.66  
SO SRCPARAM LABADIE2 537.229763 213.36 442.4920016 35.55833613 6.2484  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions-Merged.txt LABADIE2

\*\*Boiler #3 & 4 Merged Plume according to email from Ken on how to merge plumes  
\*\*

SO LOCATION LAB34 Point 688435.47 4270332.33 149.66  
SO SRCPARAM LAB34 605.810409 213.36 441.71 34.95 8.84  
SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions-Merged.txt LAB34

\*\*Boiler #4  
\*\*

\*\*SO LOCATION LABADIE4 Point 688439.28 4270327.43 149.66  
\*\*SO SRCPARAM LABADIE4 637.788672 213.36 441.7078451 34.94594478 6.2484  
\*\*SO HOUREMIS \Labadie\_13-15\_Hourly\_Emissions.txt LABADIE4

\*\*Emergency Diesel Generator

\*\*operates 8736 hr per year so it was included. Emission are released through a stack  
SO LOCATION LABADIE5 Point 688439.28 4270327.43 149.66  
SO SRCPARAM LABADIE5 0.002307653 9.144 866.4833333 7.112 0.3048

\*\*BPIP Outputs Dated January 11, 2012

SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO XBADJ LABADIE1	-88.14	-56.63	-23.40	10.55	44.17	41.54

SO XBADJ	LABADIE1	34.41	26.23	17.26	7.76	-1.97	-11.65
SO XBADJ	LABADIE1	-20.97	-30.23	-28.68	-57.59	-69.96	-80.21
SO XBADJ	LABADIE1	-88.02	-93.15	-95.46	-94.86	-91.38	-117.82
SO XBADJ	LABADIE1	-146.49	-170.71	-189.75	-203.02	-210.12	-210.84
SO XBADJ	LABADIE1	-205.15	-189.77	-200.83	-163.22	-142.26	-116.98
SO YBADJ	LABADIE1	-105.39	-104.07	-99.60	-92.09	-81.79	-67.87
SO YBADJ	LABADIE1	-52.81	-36.15	-18.38	-0.06	18.26	36.03
SO YBADJ	LABADIE1	52.71	25.71	-16.96	90.45	98.47	103.50
SO YBADJ	LABADIE1	105.39	104.07	99.60	92.09	81.79	67.87
SO YBADJ	LABADIE1	52.81	36.15	18.38	0.06	-18.26	-36.03
SO YBADJ	LABADIE1	-52.71	-25.71	16.96	-90.45	-98.47	-103.51

SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE2	-49.69	-26.08	-1.68	22.77	46.53	33.97
SO XBADJ	LABADIE2	17.13	-0.23	-17.58	-34.40	-50.17	-64.41
SO XBADJ	LABADIE2	-76.70	-87.24	-100.02	-111.97	-120.52	-125.40
SO XBADJ	LABADIE2	-126.47	-123.70	-117.17	-107.09	-93.74	-110.24
SO XBADJ	LABADIE2	-129.21	-144.25	-154.91	-160.86	-161.93	-158.07
SO XBADJ	LABADIE2	-149.41	-132.76	-122.66	-108.84	-91.71	-71.79
SO YBADJ	LABADIE2	-63.23	-55.88	-46.83	-36.35	-24.78	-11.32
SO YBADJ	LABADIE2	1.57	14.40	26.81	38.39	48.81	57.75
SO YBADJ	LABADIE2	64.93	28.07	72.10	73.17	72.01	68.66
SO YBADJ	LABADIE2	63.23	55.88	46.83	36.35	24.78	11.32
SO YBADJ	LABADIE2	-1.57	-14.40	-26.81	-38.39	-48.81	-57.75
SO YBADJ	LABADIE2	-64.93	-28.07	-72.10	-73.17	-72.01	-68.66

SO BUILDHGT	LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LAB34	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT	LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LAB34	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LAB34	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID	LAB34	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LAB34	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LAB34	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID	LAB34	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LAB34	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LAB34	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLEN	LAB34	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LAB34	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LAB34	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLEN	LAB34	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LAB34	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LAB34	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ	LAB34	8.93	21.31	33.04	43.77	53.16	26.03
SO XBADJ	LAB34	-5.13	-36.13	-66.04	-93.94	-118.99	-140.42
SO XBADJ	LAB34	-177.41	-174.21	-183.20	-192.51	-195.97	-193.47
SO XBADJ	LAB34	-185.09	-171.09	-151.89	-128.08	-100.38	-102.31
SO XBADJ	LAB34	-106.95	-108.35	-106.45	-101.32	-93.11	-82.07
SO XBADJ	LAB34	-53.30	-56.15	-39.48	-28.30	-16.26	-3.72
SO YBADJ	LAB34	-3.69	12.94	29.17	44.52	58.52	71.86



SO YBADJ LAB34 82.11 89.86 94.88 97.01 96.20 92.47  
SO YBADJ LAB34 -13.38 -23.94 64.17 50.91 36.11 20.20  
SO YBADJ LAB34 3.69 -12.94 -29.17 -44.52 -58.52 -71.86  
SO YBADJ LAB34 -82.11 -89.86 -94.88 -97.01 -96.20 -92.47  
SO YBADJ LAB34 13.38 23.94 -64.17 -50.91 -36.11 -20.20

\*\*Using Reported Actual 2013 Emissions for Interactive SOURces Below

\*\*Purina Animal Nutrition Center  
\*\*Corrected UTM from aerial photo  
\*\*100 HP Boiler  
\*\*Reported as Stack but no release parameters given, assume volume paramters for boiler.  
SO LOCATION EU\_10 VOLUME 689107.65 4262863.7 172  
SO SRCPARAM EU\_10 0.0409 5 1.1628 4.651

\*\*N.B. West Contracting CO INC  
\*\*Drag Slat Conveyer  
\*\*No information regarding this source so assume volume source parameters for boiler w/o parameters.  
SO LOCATION EP17 Volume 695196.752 4262475.068 159  
SO SRCPARAM EP17 0.07385 5 1.1628 4.651

\*\*Aggregate Dryer w/Burner and rotary mixer  
\*\*Corrected UTM's from aerial  
SO LOCATION EP5 Point 695174.86 4262540.03 159  
SO SRCPARAM EP5 0.0116 7.62 376.15 5.526 0.9144

\*\*AC Heater/Burner  
\*\*Corrected UTM's from aerial  
\*\*No exit temp or emission velocity provided. Assumed Temp=298.15K Emission Velocity=0.001 m/s  
SO LOCATION S2 Point 695174.86 4262540.03 159  
SO SRCPARAM S2 0.01759 2.7432 298.15 0.001 0.24384

BACKGRND ANNUAL 9.0  
BACKUNIT PPB

SO SRCGROUP Purina EU\_10  
SO SRCGROUP NBWEST EP17 EP5 S2  
SO SRCGROUP Lab1 LABADIE1  
SO SRCGROUP Lab2 LABADIE2  
SO SRCGROUP Lab34 LAB34  
SO SRCGROUP Lab5 LABADIE5  
SO SRCGROUP Lab LABADIE1 LABADIE2 LAB34 LABADIE5  
SO SRCGROUP ALL BACKGROUND

SO FINISHED

RE STARTING

\*\*20 km Extent Tiered Rec Grid  
\*\* AERMAP - VERSION 11103 10/29/14  
\*\* 13:09:02  
\*\* Labadie  
\*\* Receptor Elevations  
\*\* A total of 5 NED files were used  
\*\* A total of 5628 receptors were processed  
\*\* DOMAINXY 665000 4245000 15 715000 4295000 15  
\*\* ANCHORXY 688484.5 4270373.88 688484.5 4270373.88 15 4  
\*\* Terrain heights were extracted by default

RE ELEVUNIT METERS

\*\*Receptor Grid unchanged from original recommendation  
RE FINISHED

ME STARTING

ME SURFFILE .\JEFILX\_13-15.SFC  
ME PROFFILE .\JEFILX\_13-15.PFL  
ME SURFDATA 03963 2013 Jefferson\_City,MO  
ME UAIRDATA 04833 2013 Lincoln, Ill

ME PROFBASE 167 Meters  
ME FINISHED

OU STARTING  
OU RECTABLE ALLAVE 4-10  
OU SUMMFILE Ameren\_Labadie-20km-13-15-Int-Merge.SUM  
OU PLOTFILE 1 ALL 4 Ameren\_Labadie\_Plotfile\_20km-13-15-Int-Merge.PLT  
OU MAXDCONT All 4 THRESH 196.5 Ameren\_Labadie\_MAXDCONT\_20km-13-15-Int-Merge.DAT  
OU FINISHED

## Excerpt of Hourly Emissions File for Labadie

SO HOUREMIS	13	1	1	1	LABADIE1	422.377	443.06	34.72
SO HOUREMIS	13	1	1	1	LABADIE2	339.62	442.49	35.558
SO HOUREMIS	13	1	1	1	LAB34	739.015	437.4818156	34.72584349
SO HOUREMIS	13	1	1	2	LABADIE1	428.312	443.06	34.72
SO HOUREMIS	13	1	1	2	LABADIE2	336.118	442.49	35.558
SO HOUREMIS	13	1	1	2	LAB34	724.979	437.4818156	34.72584349
SO HOUREMIS	13	1	1	3	LABADIE1	439.576	443.06	34.72
SO HOUREMIS	13	1	1	3	LABADIE2	340.754	442.49	35.558
SO HOUREMIS	13	1	1	3	LAB34	725.382	437.4818156	34.72584349
SO HOUREMIS	13	1	1	4	LABADIE1	419.265	443.06	34.72
SO HOUREMIS	13	1	1	4	LABADIE2	340.427	442.49	35.558
SO HOUREMIS	13	1	1	4	LAB34	798.903	437.4818156	34.72584349
SO HOUREMIS	13	1	1	5	LABADIE1	397.165	443.06	34.72
SO HOUREMIS	13	1	1	5	LABADIE2	346.563	442.49	35.558
SO HOUREMIS	13	1	1	5	LAB34	860.278	437.4818156	34.72584349
SO HOUREMIS	13	1	1	6	LABADIE1	416.027	443.06	34.72
SO HOUREMIS	13	1	1	6	LABADIE2	350.179	442.49	35.558
SO HOUREMIS	13	1	1	6	LAB34	871.378	437.4818156	34.72584349
SO HOUREMIS	13	1	1	7	LABADIE1	425.628	443.06	34.72
SO HOUREMIS	13	1	1	7	LABADIE2	348.692	442.49	35.558
SO HOUREMIS	13	1	1	7	LAB34	900.396	437.4818156	34.72584349
SO HOUREMIS	13	1	1	8	LABADIE1	441.63	443.06	34.72
SO HOUREMIS	13	1	1	8	LABADIE2	356.933	442.49	35.558
SO HOUREMIS	13	1	1	8	LAB34	942.127	437.4818156	34.72584349
SO HOUREMIS	13	1	1	9	LABADIE1	447.401	443.06	34.72
SO HOUREMIS	13	1	1	9	LABADIE2	375.833	442.49	35.558
SO HOUREMIS	13	1	1	9	LAB34	960.359	437.4818156	34.72584349
SO HOUREMIS	13	1	1	10	LABADIE1	480.589	443.06	34.72
SO HOUREMIS	13	1	1	10	LABADIE2	376.942	442.49	35.558
SO HOUREMIS	13	1	1	10	LAB34	989.78	437.4818156	34.72584349
SO HOUREMIS	13	1	1	11	LABADIE1	486.965	443.06	34.72
SO HOUREMIS	13	1	1	11	LABADIE2	377.005	442.49	35.558
SO HOUREMIS	13	1	1	11	LAB34	1003.527	437.4818156	34.72584349
SO HOUREMIS	13	1	1	12	LABADIE1	455.225	443.06	34.72
SO HOUREMIS	13	1	1	12	LABADIE2	379.109	442.49	35.558
SO HOUREMIS	13	1	1	12	LAB34	968.499	437.4818156	34.72584349
SO HOUREMIS	13	1	1	13	LABADIE1	463.365	443.06	34.72
SO HOUREMIS	13	1	1	13	LABADIE2	369.18	442.49	35.558
SO HOUREMIS	13	1	1	13	LAB34	968.096	437.4818156	34.72584349
SO HOUREMIS	13	1	1	14	LABADIE1	456.75	443.06	34.72
SO HOUREMIS	13	1	1	14	LABADIE2	349.184	442.49	35.558
SO HOUREMIS	13	1	1	14	LAB34	946.046	437.4818156	34.72584349
SO HOUREMIS	13	1	1	15	LABADIE1	469.602	443.06	34.72
SO HOUREMIS	13	1	1	15	LABADIE2	357.097	442.49	35.558
SO HOUREMIS	13	1	1	15	LAB34	951.161	437.4818156	34.72584349
SO HOUREMIS	13	1	1	16	LABADIE1	465.784	443.06	34.72
SO HOUREMIS	13	1	1	16	LABADIE2	356.467	442.49	35.558
SO HOUREMIS	13	1	1	16	LAB34	932.69	437.4818156	34.72584349
SO HOUREMIS	13	1	1	17	LABADIE1	458.035	443.06	34.72
SO HOUREMIS	13	1	1	17	LABADIE2	341.762	442.49	35.558
SO HOUREMIS	13	1	1	17	LAB34	928.645	437.4818156	34.72584349
SO HOUREMIS	13	1	1	18	LABADIE1	454.873	443.06	34.72
SO HOUREMIS	13	1	1	18	LABADIE2	341.725	442.49	35.558
SO HOUREMIS	13	1	1	18	LAB34	894.65	437.4818156	34.72584349
SO HOUREMIS	13	1	1	19	LABADIE1	443.293	443.06	34.72
SO HOUREMIS	13	1	1	19	LABADIE2	337.516	442.49	35.558

SO HOUREMIS	13	1	1	19	LAB34	869.778	437.4818156	34.72584349
SO HOUREMIS	13	1	1	20	LABADIE1	440.773	443.06	34.72
SO HOUREMIS	13	1	1	20	LABADIE2	320.191	442.49	35.558
SO HOUREMIS	13	1	1	20	LAB34	877.955	437.4818156	34.72584349
SO HOUREMIS	13	1	1	21	LABADIE1	438.404	443.06	34.72
SO HOUREMIS	13	1	1	21	LABADIE2	315.176	442.49	35.558
SO HOUREMIS	13	1	1	21	LAB34	860.492	437.4818156	34.72584349
SO HOUREMIS	13	1	1	22	LABADIE1	434.889	443.06	34.72
SO HOUREMIS	13	1	1	22	LABADIE2	316.537	442.49	35.558
SO HOUREMIS	13	1	1	22	LAB34	847.363	437.4818156	34.72584349
SO HOUREMIS	13	1	1	23	LABADIE1	433.201	443.06	34.72
SO HOUREMIS	13	1	1	23	LABADIE2	312.908	442.49	35.558
SO HOUREMIS	13	1	1	23	LAB34	824.594	437.4818156	34.72584349
SO HOUREMIS	13	1	1	24	LABADIE1	404.901	443.06	34.72
SO HOUREMIS	13	1	1	24	LABADIE2	304.34	442.49	35.558
SO HOUREMIS	13	1	1	24	LAB34	699.98	437.4818156	34.72584349

## Excerpt of AERMOD Output File for Labadie

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* Ameren Missouri Labadie Facility Hourly Emissions File Run 13-15 20 \*\*\* 03/24/16  
 \*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* Including Interactive sources Merged Plume \*\*\* 11:35:08  
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\*\*MODELOPTs: RegDEFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
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PURINA 1ST HIGHEST VALUE IS 42.66702 AT ( 688846.44, 4263075.50, 165.70, 178.75, 0.00) DC  
 2ND HIGHEST VALUE IS 41.82770 AT ( 689346.44, 4262575.50, 181.07, 202.63, 0.00) DC  
 3RD HIGHEST VALUE IS 23.59439 AT ( 688346.44, 4263075.50, 175.90, 175.90, 0.00) DC  
 4TH HIGHEST VALUE IS 23.59439 AT ( 688346.44, 4263075.50, 175.90, 175.90, 0.00) DC  
 5TH HIGHEST VALUE IS 20.81422 AT ( 688346.44, 4262575.50, 179.35, 182.68, 0.00) DC  
 6TH HIGHEST VALUE IS 19.26734 AT ( 689346.44, 4262075.50, 183.19, 183.19, 0.00) DC  
 7TH HIGHEST VALUE IS 19.26734 AT ( 689346.44, 4262075.50, 183.19, 183.19, 0.00) DC  
 8TH HIGHEST VALUE IS 18.38084 AT ( 688846.44, 4263575.50, 182.34, 182.34, 0.00) DC  
 9TH HIGHEST VALUE IS 16.80324 AT ( 689846.44, 4262575.50, 183.79, 203.43, 0.00) DC  
 10TH HIGHEST VALUE IS 16.73039 AT ( 689346.44, 4263075.50, 188.46, 188.46, 0.00) DC

NBWEST 1ST HIGHEST VALUE IS 127.20166 AT ( 695346.44, 4262575.50, 166.43, 247.17, 0.00) DC  
 2ND HIGHEST VALUE IS 104.20032 AT ( 695346.44, 4262075.50, 157.77, 196.69, 0.00) DC  
 3RD HIGHEST VALUE IS 104.20032 AT ( 695346.44, 4262075.50, 157.77, 196.69, 0.00) DC  
 4TH HIGHEST VALUE IS 103.69656 AT ( 694846.44, 4262575.50, 162.23, 245.02, 0.00) DC  
 5TH HIGHEST VALUE IS 72.04175 AT ( 695846.44, 4262075.50, 156.96, 156.96, 0.00) DC  
 6TH HIGHEST VALUE IS 65.72825 AT ( 694846.44, 4262075.50, 164.99, 221.97, 0.00) DC  
 7TH HIGHEST VALUE IS 39.96304 AT ( 695346.44, 4261575.50, 146.36, 146.36, 0.00) DC  
 8TH HIGHEST VALUE IS 38.20016 AT ( 695846.44, 4261575.50, 152.29, 152.29, 0.00) DC  
 9TH HIGHEST VALUE IS 31.31004 AT ( 695846.44, 4261075.50, 163.11, 163.11, 0.00) DC  
 10TH HIGHEST VALUE IS 30.68238 AT ( 696346.44, 4261575.50, 146.89, 229.43, 0.00) DC

LAB1 1ST HIGHEST VALUE IS 48.14743 AT ( 685846.44, 4272825.50, 171.70, 220.14, 0.00) DC  
 2ND HIGHEST VALUE IS 48.14330 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
 3RD HIGHEST VALUE IS 48.14330 AT ( 685846.44, 4272575.50, 165.60, 165.60, 0.00) DC  
 4TH HIGHEST VALUE IS 48.03805 AT ( 685846.44, 4272325.50, 160.08, 160.08, 0.00) DC  
 5TH HIGHEST VALUE IS 47.99712 AT ( 684846.44, 4272575.50, 214.95, 237.81, 0.00) DC  
 6TH HIGHEST VALUE IS 47.99712 AT ( 684846.44, 4272575.50, 214.95, 237.81, 0.00) DC  
 7TH HIGHEST VALUE IS 47.64460 AT ( 686096.44, 4272575.50, 159.10, 265.93, 0.00) DC  
 8TH HIGHEST VALUE IS 47.37300 AT ( 686096.44, 4272075.50, 164.47, 164.47, 0.00) DC  
 9TH HIGHEST VALUE IS 47.23412 AT ( 686096.44, 4272325.50, 160.92, 259.59, 0.00) DC  
 10TH HIGHEST VALUE IS 47.11491 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC

LAB2 1ST HIGHEST VALUE IS 47.41555 AT ( 686096.44, 4273075.50, 177.20, 266.77, 0.00) DC  
 2ND HIGHEST VALUE IS 47.11723 AT ( 686346.44, 4272825.50, 171.18, 266.77, 0.00) DC

3RD HIGHEST VALUE IS 46.28026 AT ( 685846.44, 4273325.50, 176.26, 266.77, 0.00) DC  
 4TH HIGHEST VALUE IS 45.61637 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 5TH HIGHEST VALUE IS 45.61637 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 6TH HIGHEST VALUE IS 45.58764 AT ( 686596.44, 4272575.50, 182.88, 259.59, 0.00) DC  
 7TH HIGHEST VALUE IS 45.44779 AT ( 686096.44, 4272825.50, 164.71, 266.77, 0.00) DC  
 8TH HIGHEST VALUE IS 45.16708 AT ( 686596.44, 4272325.50, 171.86, 259.59, 0.00) DC  
 9TH HIGHEST VALUE IS 45.12449 AT ( 685846.44, 4272325.50, 160.08, 160.08, 0.00) DC  
 10TH HIGHEST VALUE IS 45.03828 AT ( 686846.44, 4272825.50, 187.85, 266.77, 0.00) DC

\*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* Ameren Missouri Labadie Facility Hourly Emissions File Run 13-15 20 \*\*\* 03/24/16

\*\*\* AERMET - VERSION 15181 \*\*\* \*\*\* Including Interactive sources Merged Plume \*\*\* 11:35:08

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\*\*MODELOPTs: RegDFAULT CONC ELEV RURAL

\*\*\* THE SUMMARY OF MAXIMUM 4TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 3 YEARS \*\*\*

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

NETWORK  
 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

LAB34 1ST HIGHEST VALUE IS 70.96686 AT ( 686096.44, 4272575.50, 159.10, 265.93, 0.00) DC  
 2ND HIGHEST VALUE IS 70.85822 AT ( 685846.44, 4272825.50, 171.70, 220.14, 0.00) DC  
 3RD HIGHEST VALUE IS 69.88410 AT ( 686096.44, 4273325.50, 201.59, 266.77, 0.00) DC  
 4TH HIGHEST VALUE IS 69.67560 AT ( 686346.44, 4272325.50, 170.81, 259.59, 0.00) DC  
 5TH HIGHEST VALUE IS 69.58261 AT ( 686346.44, 4273325.50, 203.41, 266.77, 0.00) DC  
 6TH HIGHEST VALUE IS 69.39269 AT ( 686346.44, 4273575.50, 221.41, 266.77, 0.00) DC  
 7TH HIGHEST VALUE IS 69.39269 AT ( 686346.44, 4273575.50, 221.41, 266.77, 0.00) DC  
 8TH HIGHEST VALUE IS 69.22568 AT ( 685846.44, 4273575.50, 170.35, 266.77, 0.00) DC  
 9TH HIGHEST VALUE IS 69.22568 AT ( 685846.44, 4273575.50, 170.35, 266.77, 0.00) DC  
 10TH HIGHEST VALUE IS 69.18338 AT ( 686346.44, 4273075.50, 181.79, 266.77, 0.00) DC

LAB5 1ST HIGHEST VALUE IS 0.31066 AT ( 690846.44, 4268575.50, 174.43, 238.58, 0.00) DC  
 2ND HIGHEST VALUE IS 0.31066 AT ( 690846.44, 4268575.50, 174.43, 238.58, 0.00) DC  
 3RD HIGHEST VALUE IS 0.30358 AT ( 690096.44, 4268325.50, 177.78, 215.37, 0.00) DC  
 4TH HIGHEST VALUE IS 0.30358 AT ( 690096.44, 4268325.50, 177.78, 215.37, 0.00) DC  
 5TH HIGHEST VALUE IS 0.27364 AT ( 689596.44, 4267575.50, 175.98, 245.21, 0.00) DC  
 6TH HIGHEST VALUE IS 0.27364 AT ( 689596.44, 4267575.50, 175.98, 245.21, 0.00) DC  
 7TH HIGHEST VALUE IS 0.26272 AT ( 690346.44, 4267575.50, 173.18, 245.21, 0.00) DC  
 8TH HIGHEST VALUE IS 0.26272 AT ( 690346.44, 4267575.50, 173.18, 245.21, 0.00) DC  
 9TH HIGHEST VALUE IS 0.26195 AT ( 689346.44, 4267575.50, 179.53, 245.21, 0.00) DC  
 10TH HIGHEST VALUE IS 0.26195 AT ( 689346.44, 4267575.50, 179.53, 245.21, 0.00) DC

LAB 1ST HIGHEST VALUE IS 151.86308 AT ( 686096.44, 4272825.50, 164.71, 266.77, 0.00) DC  
 2ND HIGHEST VALUE IS 151.57891 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 3RD HIGHEST VALUE IS 151.57891 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 4TH HIGHEST VALUE IS 150.27113 AT ( 685846.44, 4272825.50, 171.70, 220.14, 0.00) DC  
 5TH HIGHEST VALUE IS 150.25145 AT ( 687346.44, 4273325.50, 189.99, 266.77, 0.00) DC  
 6TH HIGHEST VALUE IS 149.75333 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
 7TH HIGHEST VALUE IS 149.75333 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
 8TH HIGHEST VALUE IS 149.65462 AT ( 687096.44, 4273325.50, 215.37, 266.77, 0.00) DC  
 9TH HIGHEST VALUE IS 149.38163 AT ( 687096.44, 4273575.50, 238.37, 264.41, 0.00) DC  
 10TH HIGHEST VALUE IS 148.77844 AT ( 687346.44, 4272825.50, 189.15, 259.59, 0.00) DC

ALL 1ST HIGHEST VALUE IS 175.41317 AT ( 686096.44, 4272825.50, 164.71, 266.77, 0.00) DC  
 2ND HIGHEST VALUE IS 175.12435 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 3RD HIGHEST VALUE IS 175.12435 AT ( 686346.44, 4272575.50, 172.33, 259.59, 0.00) DC  
 4TH HIGHEST VALUE IS 173.81933 AT ( 685846.44, 4272825.50, 171.70, 220.14, 0.00) DC  
 5TH HIGHEST VALUE IS 173.79840 AT ( 687346.44, 4273325.50, 189.99, 266.77, 0.00) DC  
 6TH HIGHEST VALUE IS 173.30314 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
 7TH HIGHEST VALUE IS 173.30314 AT ( 685846.44, 4273075.50, 174.41, 266.61, 0.00) DC  
 8TH HIGHEST VALUE IS 173.20776 AT ( 687096.44, 4273325.50, 215.37, 266.77, 0.00) DC  
 9TH HIGHEST VALUE IS 172.92853 AT ( 687096.44, 4273575.50, 238.37, 264.41, 0.00) DC  
 10TH HIGHEST VALUE IS 172.33163 AT ( 687346.44, 4272825.50, 189.15, 259.59, 0.00) DC