

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File: C:\Lakes\AERMOD View\14775-04 HRA Modeling Files\14775 Construction\14775 Construction.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "14775 Construction.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Ethanac 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0009646713
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 482092.273, 3733680.890, 433.00, 3.49, 6.51
** 482570.497, 3733674.016, 434.00, 3.49, 6.51
** -----
LOCATION L0000487    VOLUME    482099.273 3733680.790 433.00
LOCATION L0000488    VOLUME    482113.271 3733680.589 433.00
LOCATION L0000489    VOLUME    482127.270 3733680.387 433.00
LOCATION L0000490    VOLUME    482141.268 3733680.186 433.00
LOCATION L0000491    VOLUME    482155.267 3733679.985 433.00
LOCATION L0000492    VOLUME    482169.265 3733679.784 433.00
LOCATION L0000493    VOLUME    482183.264 3733679.582 433.00
LOCATION L0000494    VOLUME    482197.262 3733679.381 433.00
LOCATION L0000495    VOLUME    482211.261 3733679.180 433.00
LOCATION L0000496    VOLUME    482225.259 3733678.979 433.00
LOCATION L0000497    VOLUME    482239.258 3733678.777 433.00
LOCATION L0000498    VOLUME    482253.257 3733678.576 433.00

```

LOCATION L0000499	VOLUME	482267.255	3733678.375	433.00
LOCATION L0000500	VOLUME	482281.254	3733678.174	433.00
LOCATION L0000501	VOLUME	482295.252	3733677.972	433.00
LOCATION L0000502	VOLUME	482309.251	3733677.771	433.00
LOCATION L0000503	VOLUME	482323.249	3733677.570	433.07
LOCATION L0000504	VOLUME	482337.248	3733677.369	433.36
LOCATION L0000505	VOLUME	482351.246	3733677.167	433.64
LOCATION L0000506	VOLUME	482365.245	3733676.966	433.82
LOCATION L0000507	VOLUME	482379.244	3733676.765	433.99
LOCATION L0000508	VOLUME	482393.242	3733676.564	434.00
LOCATION L0000509	VOLUME	482407.241	3733676.363	434.00
LOCATION L0000510	VOLUME	482421.239	3733676.161	434.00
LOCATION L0000511	VOLUME	482435.238	3733675.960	434.00
LOCATION L0000512	VOLUME	482449.236	3733675.759	434.00
LOCATION L0000513	VOLUME	482463.235	3733675.558	434.00
LOCATION L0000514	VOLUME	482477.233	3733675.356	434.00
LOCATION L0000515	VOLUME	482491.232	3733675.155	434.00
LOCATION L0000516	VOLUME	482505.231	3733674.954	434.00
LOCATION L0000517	VOLUME	482519.229	3733674.753	434.00
LOCATION L0000518	VOLUME	482533.228	3733674.551	434.00
LOCATION L0000519	VOLUME	482547.226	3733674.350	434.00
LOCATION L0000520	VOLUME	482561.225	3733674.149	434.00

\*\* End of LINE VOLUME Source ID = SLINE6

LOCATION VOL1	VOLUME	481940.900	3733621.669	433.000
LOCATION VOL2	VOLUME	481940.221	3733565.836	433.000
LOCATION VOL3	VOLUME	481939.881	3733510.679	433.000
LOCATION VOL4	VOLUME	481940.221	3733454.841	433.000
LOCATION VOL5	VOLUME	481940.221	3733399.004	433.000
LOCATION VOL6	VOLUME	481940.562	3733342.826	433.000
LOCATION VOL7	VOLUME	481939.540	3733286.988	433.000
LOCATION VOL8	VOLUME	481950.776	3733232.512	433.000
LOCATION VOL9	VOLUME	481967.800	3733207.317	433.000
LOCATION VOL10	VOLUME	481994.697	3733262.814	433.000
LOCATION VOL11	VOLUME	481994.357	3733318.311	433.000
LOCATION VOL12	VOLUME	482046.109	3733305.714	433.000
LOCATION VOL13	VOLUME	481993.676	3733374.149	433.000
LOCATION VOL14	VOLUME	481993.676	3733429.646	433.000
LOCATION VOL15	VOLUME	481994.016	3733484.803	433.000
LOCATION VOL16	VOLUME	481994.697	3733527.022	433.000
LOCATION VOL17	VOLUME	482043.385	3733526.682	433.000
LOCATION VOL18	VOLUME	482043.725	3733471.525	433.000
LOCATION VOL19	VOLUME	482046.109	3733361.211	433.000
LOCATION VOL20	VOLUME	482044.406	3733417.049	433.000

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE7

\*\* DESCRSRC

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0009646713

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482092.636, 3733667.305, 433.00, 3.49, 4.00

\*\* 482089.337, 3733275.697, 433.00, 3.49, 4.00

\*\* -----

LOCATION L0000351	VOLUME	482092.600	3733663.011	433.00
LOCATION L0000352	VOLUME	482092.527	3733654.421	433.00
LOCATION L0000353	VOLUME	482092.455	3733645.831	433.00
LOCATION L0000354	VOLUME	482092.383	3733637.242	433.00

LOCATION	L0000355	VOLUME	482092.310	3733628.652	433.00
LOCATION	L0000356	VOLUME	482092.238	3733620.062	433.00
LOCATION	L0000357	VOLUME	482092.166	3733611.472	433.00
LOCATION	L0000358	VOLUME	482092.093	3733602.883	433.00
LOCATION	L0000359	VOLUME	482092.021	3733594.293	433.00
LOCATION	L0000360	VOLUME	482091.948	3733585.703	433.00
LOCATION	L0000361	VOLUME	482091.876	3733577.114	433.00
LOCATION	L0000362	VOLUME	482091.804	3733568.524	433.00
LOCATION	L0000363	VOLUME	482091.731	3733559.934	433.00
LOCATION	L0000364	VOLUME	482091.659	3733551.345	433.00
LOCATION	L0000365	VOLUME	482091.587	3733542.755	433.00
LOCATION	L0000366	VOLUME	482091.514	3733534.165	433.00
LOCATION	L0000367	VOLUME	482091.442	3733525.576	433.00
LOCATION	L0000368	VOLUME	482091.370	3733516.986	433.00
LOCATION	L0000369	VOLUME	482091.297	3733508.396	433.00
LOCATION	L0000370	VOLUME	482091.225	3733499.806	433.00
LOCATION	L0000371	VOLUME	482091.153	3733491.217	433.00
LOCATION	L0000372	VOLUME	482091.080	3733482.627	433.00
LOCATION	L0000373	VOLUME	482091.008	3733474.037	433.00
LOCATION	L0000374	VOLUME	482090.936	3733465.448	433.00
LOCATION	L0000375	VOLUME	482090.863	3733456.858	433.00
LOCATION	L0000376	VOLUME	482090.791	3733448.268	433.00
LOCATION	L0000377	VOLUME	482090.718	3733439.679	433.00
LOCATION	L0000378	VOLUME	482090.646	3733431.089	433.00
LOCATION	L0000379	VOLUME	482090.574	3733422.499	433.00
LOCATION	L0000380	VOLUME	482090.501	3733413.909	433.00
LOCATION	L0000381	VOLUME	482090.429	3733405.320	433.00
LOCATION	L0000382	VOLUME	482090.357	3733396.730	433.00
LOCATION	L0000383	VOLUME	482090.284	3733388.140	433.00
LOCATION	L0000384	VOLUME	482090.212	3733379.551	433.00
LOCATION	L0000385	VOLUME	482090.140	3733370.961	433.00
LOCATION	L0000386	VOLUME	482090.067	3733362.371	433.00
LOCATION	L0000387	VOLUME	482089.995	3733353.782	433.00
LOCATION	L0000388	VOLUME	482089.923	3733345.192	433.00
LOCATION	L0000389	VOLUME	482089.850	3733336.602	433.00
LOCATION	L0000390	VOLUME	482089.778	3733328.013	433.00
LOCATION	L0000391	VOLUME	482089.705	3733319.423	433.00
LOCATION	L0000392	VOLUME	482089.633	3733310.833	433.00
LOCATION	L0000393	VOLUME	482089.561	3733302.243	433.00
LOCATION	L0000394	VOLUME	482089.488	3733293.654	433.00
LOCATION	L0000395	VOLUME	482089.416	3733285.064	433.00
LOCATION	L0000396	VOLUME	482089.344	3733276.474	433.00

\*\* End of LINE VOLUME Source ID = SLINE7

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE6

SRCPARAM	L0000487	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000488	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000489	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000490	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000491	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000492	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000493	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000494	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000495	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000496	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000497	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000498	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000499	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000500	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000501	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000502	0.0000283727	3.49	6.51	3.25

SRCPARAM	L0000503	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000504	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000505	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000506	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000507	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000508	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000509	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000510	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000511	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000512	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000513	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000514	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000515	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000516	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000517	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000518	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000519	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000520	0.0000283727	3.49	6.51	3.25

\*\*

SRCPARAM	VOL1	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL2	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL3	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL4	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL5	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL6	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL7	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL8	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL9	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL10	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL11	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL12	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL13	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL14	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL15	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL16	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL17	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL18	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL19	0.0013633365	5.000	12.828	1.400
SRCPARAM	VOL20	0.0013633365	5.000	12.828	1.400

\*\* LINE VOLUME Source ID = SLINE7

SRCPARAM	L0000351	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000352	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000353	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000354	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000355	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000356	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000357	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000358	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000359	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000360	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000361	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000362	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000363	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000364	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000365	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000366	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000367	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000368	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000369	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000370	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000371	0.0000209711	3.49	4.00	3.25

SRCPARAM	L0000372	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000373	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000374	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000375	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000376	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000377	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000378	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000379	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000380	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000381	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000382	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000383	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000384	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000385	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000386	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000387	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000388	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000389	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000390	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000391	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000392	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000393	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000394	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000395	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000396	0.0000209711	3.49	4.00	3.25

\*\* -----  
 URBANSRC ALL

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000487	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000488	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000489	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000490	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000491	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000492	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000493	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000493	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000493	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000493	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000494	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000494	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0

[illegible]

[illegible]

**\*\* Saturday:**

EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

[illegible]



[illegible]

**\*\* Sunday:**

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

EMISFACT	L0000393	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000394	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000394	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000394	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000394	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000395	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000395	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000395	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000395	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000395	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000396	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000396	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000396	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000396	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

[illegible]

[illegible]



[illegible]

```

EMISFACT L0000393      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000393      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000393      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000394      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000394      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000394      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000394      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000395      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000395      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000395      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000395      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000396      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000396      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000396      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000396      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "14775 Construction.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE PERI_V9_ADJU\PERI_v9.SFC
  PROFFILE PERI_V9_ADJU\PERI_v9.PFL
  SURFDATA 3171 2010
  UAIRDATA 3190 2010
  SITEDATA 99999 2010
  PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE ANNUAL ALL "14775 CONSTRUCTION.AD\AN00GALL.PLT" 31
  SUMMFILE "14775 Construction.sum"
OU FINISHED

```

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

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

```

A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of      0 Informational Message(s)

```

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186 1565 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1565 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 1

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 100 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Assumes No FLAGPOLE Receptor Heights.
- \* The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 100 Source(s); 1 Source Group(s); and 22 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 100 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

EMISSION RATE SOURCE SCALAR VARY ID BY	NUMBER EMISSION RATE				BASE	RELEASE	INIT.	INIT.	URBAN
	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE
	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
L0000487 HRDOW	0	0.28373E-04	482099.3	3733680.8	433.0	3.49	6.51	3.25	YES
L0000488 HRDOW	0	0.28373E-04	482113.3	3733680.6	433.0	3.49	6.51	3.25	YES
L0000489 HRDOW	0	0.28373E-04	482127.3	3733680.4	433.0	3.49	6.51	3.25	YES
L0000490 HRDOW	0	0.28373E-04	482141.3	3733680.2	433.0	3.49	6.51	3.25	YES
L0000491 HRDOW	0	0.28373E-04	482155.3	3733680.0	433.0	3.49	6.51	3.25	YES

L0000492	0	0.28373E-04	482169.3	3733679.8	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000493	0	0.28373E-04	482183.3	3733679.6	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000494	0	0.28373E-04	482197.3	3733679.4	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000495	0	0.28373E-04	482211.3	3733679.2	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000496	0	0.28373E-04	482225.3	3733679.0	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000497	0	0.28373E-04	482239.3	3733678.8	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000498	0	0.28373E-04	482253.3	3733678.6	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000499	0	0.28373E-04	482267.3	3733678.4	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000500	0	0.28373E-04	482281.3	3733678.2	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000501	0	0.28373E-04	482295.3	3733678.0	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000502	0	0.28373E-04	482309.3	3733677.8	433.0	3.49	6.51	3.25	YES
HRDOW									
L0000503	0	0.28373E-04	482323.2	3733677.6	433.1	3.49	6.51	3.25	YES
HRDOW									
L0000504	0	0.28373E-04	482337.2	3733677.4	433.4	3.49	6.51	3.25	YES
HRDOW									
L0000505	0	0.28373E-04	482351.2	3733677.2	433.6	3.49	6.51	3.25	YES
HRDOW									
L0000506	0	0.28373E-04	482365.2	3733677.0	433.8	3.49	6.51	3.25	YES
HRDOW									
L0000507	0	0.28373E-04	482379.2	3733676.8	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000508	0	0.28373E-04	482393.2	3733676.6	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000509	0	0.28373E-04	482407.2	3733676.4	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000510	0	0.28373E-04	482421.2	3733676.2	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000511	0	0.28373E-04	482435.2	3733676.0	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000512	0	0.28373E-04	482449.2	3733675.8	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000513	0	0.28373E-04	482463.2	3733675.6	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000514	0	0.28373E-04	482477.2	3733675.4	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000515	0	0.28373E-04	482491.2	3733675.2	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000516	0	0.28373E-04	482505.2	3733675.0	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000517	0	0.28373E-04	482519.2	3733674.8	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000518	0	0.28373E-04	482533.2	3733674.6	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000519	0	0.28373E-04	482547.2	3733674.3	434.0	3.49	6.51	3.25	YES
HRDOW									
L0000520	0	0.28373E-04	482561.2	3733674.1	434.0	3.49	6.51	3.25	YES
HRDOW									
VOL1	0	0.13633E-02	481940.9	3733621.7	433.0	5.00	12.83	1.40	YES
HRDOW									
VOL2	0	0.13633E-02	481940.2	3733565.8	433.0	5.00	12.83	1.40	YES



L0000353	0	0.20971E-04	482092.5	3733645.8	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000354	0	0.20971E-04	482092.4	3733637.2	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000355	0	0.20971E-04	482092.3	3733628.7	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000356	0	0.20971E-04	482092.2	3733620.1	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000357	0	0.20971E-04	482092.2	3733611.5	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000358	0	0.20971E-04	482092.1	3733602.9	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000359	0	0.20971E-04	482092.0	3733594.3	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000360	0	0.20971E-04	482091.9	3733585.7	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000361	0	0.20971E-04	482091.9	3733577.1	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000362	0	0.20971E-04	482091.8	3733568.5	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000363	0	0.20971E-04	482091.7	3733559.9	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000364	0	0.20971E-04	482091.7	3733551.3	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000365	0	0.20971E-04	482091.6	3733542.8	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000366	0	0.20971E-04	482091.5	3733534.2	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000367	0	0.20971E-04	482091.4	3733525.6	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000368	0	0.20971E-04	482091.4	3733517.0	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000369	0	0.20971E-04	482091.3	3733508.4	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000370	0	0.20971E-04	482091.2	3733499.8	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000371	0	0.20971E-04	482091.2	3733491.2	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000372	0	0.20971E-04	482091.1	3733482.6	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000373	0	0.20971E-04	482091.0	3733474.0	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000374	0	0.20971E-04	482090.9	3733465.4	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000375	0	0.20971E-04	482090.9	3733456.9	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000376	0	0.20971E-04	482090.8	3733448.3	433.0	3.49	4.00	3.25	YES
HRDOW									

\*\*\* AERMOD - VERSION 22112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\*  
 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\* 15:28:00

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN
EMISSION RATE						

SOURCE SCALAR VARY ID BY	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE
-----------------------------------	----------------	-------------	---------------	---------------	-------------------	--------------------	----------------	----------------	--------

L0000377	0	0.20971E-04	482090.7	3733439.7	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000378	0	0.20971E-04	482090.6	3733431.1	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000379	0	0.20971E-04	482090.6	3733422.5	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000380	0	0.20971E-04	482090.5	3733413.9	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000381	0	0.20971E-04	482090.4	3733405.3	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000382	0	0.20971E-04	482090.4	3733396.7	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000383	0	0.20971E-04	482090.3	3733388.1	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000384	0	0.20971E-04	482090.2	3733379.6	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000385	0	0.20971E-04	482090.1	3733371.0	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000386	0	0.20971E-04	482090.1	3733362.4	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000387	0	0.20971E-04	482090.0	3733353.8	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000388	0	0.20971E-04	482089.9	3733345.2	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000389	0	0.20971E-04	482089.8	3733336.6	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000390	0	0.20971E-04	482089.8	3733328.0	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000391	0	0.20971E-04	482089.7	3733319.4	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000392	0	0.20971E-04	482089.6	3733310.8	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000393	0	0.20971E-04	482089.6	3733302.2	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000394	0	0.20971E-04	482089.5	3733293.7	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000395	0	0.20971E-04	482089.4	3733285.1	433.0	3.49	4.00	3.25	YES
HRDOW									
L0000396	0	0.20971E-04	482089.3	3733276.5	433.0	3.49	4.00	3.25	YES
HRDOW									

\*\*\* AERMOD - VERSION 22112 \*\*\*  
 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\*  
 \*\*\* 04/03/23 \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:28:00 \*\*\*

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

-----

-----



ALL L0000493	L0000487 , L0000494	, L0000488 ,	, L0000489	, L0000490	, L0000491	, L0000492	,
L0000501	L0000495 , L0000502	, L0000496 ,	, L0000497	, L0000498	, L0000499	, L0000500	,
L0000509	L0000503 , L0000510	, L0000504 ,	, L0000505	, L0000506	, L0000507	, L0000508	,
L0000517	L0000511 , L0000518	, L0000512 ,	, L0000513	, L0000514	, L0000515	, L0000516	,
	L0000519 , VOL6	, L0000520 ,	, VOL1	, VOL2	, VOL3	, VOL4	, VOL5
	VOL7 , VOL14	, VOL8 ,	, VOL9	, VOL10	, VOL11	, VOL12	, VOL13
L0000351	VOL15 , L0000352	, VOL16 ,	, VOL17	, VOL18	, VOL19	, VOL20	,
L0000359	L0000353 , L0000360	, L0000354 ,	, L0000355	, L0000356	, L0000357	, L0000358	,
L0000367	L0000361 , L0000368	, L0000362 ,	, L0000363	, L0000364	, L0000365	, L0000366	,
L0000375	L0000369 , L0000376	, L0000370 ,	, L0000371	, L0000372	, L0000373	, L0000374	,
L0000383	L0000377 , L0000384	, L0000378 ,	, L0000379	, L0000380	, L0000381	, L0000382	,
L0000391	L0000385 , L0000392	, L0000386 ,	, L0000387	, L0000388	, L0000389	, L0000390	,

L0000393 , L0000394 , L0000395 , L0000396 ,  
 \*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\14775 Ethanac and  
 Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 6

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0000492 L0000494	2189641. , L0000493 ,	L0000487 ,	, L0000488	, L0000489	, L0000490	, L0000491	,
L0000501	L0000495 , L0000502	, L0000496 ,	, L0000497	, L0000498	, L0000499	, L0000500	,
	L0000503	, L0000504	, L0000505	, L0000506	, L0000507	, L0000508	,

L0000509 , L0000510 ,  
 L0000517 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 ,  
 , L0000518 ,  
 , L0000519 , L0000520 , VOL1 , VOL2 , VOL3 , VOL4 , VOL5  
 , VOL6 ,  
 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13  
 , VOL14 ,  
 L0000351 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 ,  
 , L0000352 ,  
 L0000359 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 ,  
 , L0000360 ,  
 L0000367 , L0000361 , L0000362 , L0000363 , L0000364 , L0000365 , L0000366 ,  
 , L0000368 ,  
 L0000375 , L0000369 , L0000370 , L0000371 , L0000372 , L0000373 , L0000374 ,  
 , L0000376 ,  
 L0000383 , L0000377 , L0000378 , L0000379 , L0000380 , L0000381 , L0000382 ,  
 , L0000384 ,  
 L0000391 , L0000385 , L0000386 , L0000387 , L0000388 , L0000389 , L0000390 ,  
 , L0000392 ,

L0000393 , L0000394 , L0000395 , L0000396 ,  
 \*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
 Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 15:28:00

PAGE 7

\*\*\* MODELOPTs: RegFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000487 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00

```

.0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 8

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = L0000488 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 9

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = L0000489 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01

```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000490 ; SOURCE TYPE = VOLUME ;  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000491 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 12

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000492 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00  
▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000493 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 14

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000494 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY							
1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00	7 .0000E+00	8 .0000E+00
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\*

[illegible]

DAY OF WEEK = SATURDAY							
1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00	7 .0000E+00	8 .0000E+00
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

DAY OF WEEK = SUNDAY							
1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00	7 .0000E+00	8 .0000E+00
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

\*\*\* MODELOPTs: PAGE 16 RegDFAULT CONC ELEV URBAN ADJ U\*

[illegible]

```

SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

PAGE 17
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000497 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and

```



Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 18

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000498 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 19

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000499 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 20

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000500 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 21

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000501 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 22

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000502 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 23

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000503 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 24

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000504 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000505 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 26

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000506 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 27

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000507 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

- - - - -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 28

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000508 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000509 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

```

    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 30

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000510 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

```

- - - - - DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 31

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000511 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

```

- - - - - DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23

```



.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 32

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000512 ; SOURCE TYPE = VOLUME :

1	SCALAR	2	SCALAR	3	SCALAR	4	SCALAR	5	SCALAR	6	SCALAR	7
SCALAR	1	SCALAR	2	SCALAR	3	SCALAR	4	SCALAR	5	SCALAR	6	SCALAR

-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15
.1000E+01	16	.1000E+01										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000513 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\14775 Ethanac and  
 Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 34

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000514 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

.0000E+00 24 .0000E+00  
 \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 35

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000515 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000516 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7

.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 37

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000517 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 38

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000518 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

```

- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 39

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000519 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SCALAR	HOUR	SCALAR											

```

- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23

```

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 15:28:00

PAGE 40

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000520 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 41

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 42

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 43

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 44

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00



PAGE 45

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 46

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 47

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR
-----
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR
-----
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15

```

.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 49

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 50

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 51

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15

```

.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 52

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 53

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 54

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 55

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :



```

                                DAY OF WEEK = SATURDAY
      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5 .0000E+00      6 .0000E+00      7
      .0000E+00      8 .0000E+00

```



9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 59

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 60

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 61

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000351 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 15:28:00

PAGE 62

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000352 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 63

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000353 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00

.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 64

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000354 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 65

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000355 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7

.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 66

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000356 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 67

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000357 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR										

-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15
.1000E+01	16	.1000E+01										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 68

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000358 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR										

-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15
.1000E+01	16	.1000E+01										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------	---	-----------	---

```

.0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 69

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = L0000359 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7
.0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
                                     DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7
.0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
                                     DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7
.0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 70

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = L0000360 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7
.0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01

```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 71

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000361 ; SOURCE TYPE = VOLUME ;  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 72

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*



SOURCE ID = L0000362 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
 Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 73

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000363 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00  
▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 74

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000364 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 75

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000365 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ U\*

[illegible]

DAY OF WEEK = SATURDAY							
1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6 .0000E+00	7 .0000E+00	8 .0000E+00
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14 .0000E+00	15 .0000E+00	16 .0000E+00
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22 .0000E+00	23 .0000E+00	24 .0000E+00

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 ***                    04/03/23
*** AERMET - VERSION 16216 ***      ***
***                                15:28:00

```

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ U\*

[illegible]

```

SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

PAGE 78
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000368 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
                                DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
    17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00	26	.0000E+00	27	.0000E+00	28	.0000E+00
29	.0000E+00	30	.0000E+00	31	.0000E+00	32	.0000E+00	33	.0000E+00	34	.0000E+00	35	.0000E+00
36	.0000E+00	37	.0000E+00	38	.0000E+00	39	.0000E+00	40	.0000E+00	41	.0000E+00	42	.0000E+00
43	.0000E+00	44	.0000E+00	45	.0000E+00	46	.0000E+00	47	.0000E+00	48	.0000E+00	49	.0000E+00
50	.0000E+00	51	.0000E+00	52	.0000E+00	53	.0000E+00	54	.0000E+00	55	.0000E+00	56	.0000E+00
57	.0000E+00	58	.0000E+00	59	.0000E+00	60	.0000E+00	61	.0000E+00	62	.0000E+00	63	.0000E+00
64	.0000E+00	65	.0000E+00	66	.0000E+00	67	.0000E+00	68	.0000E+00	69	.0000E+00	70	.0000E+00
71	.0000E+00	72	.0000E+00	73	.0000E+00	74	.0000E+00	75	.0000E+00	76	.0000E+00	77	.0000E+00
78	.0000E+00	79	.0000E+00	80	.0000E+00	81	.0000E+00	82	.0000E+00	83	.0000E+00	84	.0000E+00
85	.0000E+00	86	.0000E+00	87	.0000E+00	88	.0000E+00	89	.0000E+00	90	.0000E+00	91	.0000E+00
92	.0000E+00	93	.0000E+00	94	.0000E+00	95	.0000E+00	96	.0000E+00	97	.0000E+00	98	.0000E+00
99	.0000E+00	100	.0000E+00	101	.0000E+00	102	.0000E+00	103	.0000E+00	104	.0000E+00	105	.0000E+00
106	.0000E+00	107	.0000E+00	108	.0000E+00	109	.0000E+00	110	.0000E+00	111	.0000E+00	112	.0000E+00
113	.0000E+00	114	.0000E+00	115	.0000E+00	116	.0000E+00	117	.0000E+00	118	.0000E+00	119	.0000E+00
120	.0000E+00	121	.0000E+00	122	.0000E+00	123	.0000E+00	124	.0000E+00	125	.0000E+00	126	.0000E+00
127	.0000E+00	128	.0000E+00	129	.0000E+00	130	.0000E+00	131	.0000E+00	132	.0000E+00	133	.0000E+00
134	.0000E+00	135	.0000E+00	136	.0000E+00	137	.0000E+00	138	.0000E+00	139	.0000E+00	140	.0000E+00
141	.0000E+00	142	.0000E+00	143	.0000E+00	144	.0000E+00	145	.0000E+00	146	.0000E+00	147	.0000E+00
148	.0000E+00	149	.0000E+00	150	.0000E+00	151	.0000E+00	152	.0000E+00	153	.0000E+00	154	.0000E+00
155	.0000E+00	156	.0000E+00	157	.0000E+00	158	.0000E+00	159	.0000E+00	160	.0000E+00	161	.0000E+00
162	.0000E+00	163	.0000E+00	164	.0000E+00	165	.0000E+00	166	.0000E+00	167	.0000E+00	168	.0000E+00
169	.0000E+00	170	.0000E+00	171	.0000E+00	172	.0000E+00	173	.0000E+00	174	.0000E+00	175	.0000E+00
176	.0000E+00	177	.0000E+00	178	.0000E+00	179	.0000E+00	180	.0000E+00	181	.0000E+00	182	.0000E+00
183	.0000E+00	184	.0000E+00	185	.0000E+00	186	.0000E+00	187	.0000E+00	188	.0000E+00	189	.0000E+00
190	.0000E+00	191	.0000E+00	192	.0000E+00	193	.0000E+00	194	.0000E+00	195	.0000E+00		

.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 81

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000371 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 82

\*\*\* MODELOPTS: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000372 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\*      04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\*      15:28:00

PAGE 83

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000373 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\*      04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\*      15:28:00

PAGE 84

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000374 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 85

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000375 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00



DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 86

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000376 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00		
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00														

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 87

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000377 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 88

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000378 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

- - - - -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 89

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000379 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 90

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000380 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

```

    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 91

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000381 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

```

- - - - - DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00  14 .0000E+00  15
.0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23
.0000E+00  24 .0000E+00

```

```

^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 92

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000382 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 SCALAR HOUR SCALAR

```

- - - - - DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00  6 .0000E+00  7
.0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01  14 .1000E+01  15
.1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00  22 .0000E+00  23

```

.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 93

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000383 ; SOURCE TYPE = VOLUME :

1	SCALAR	2	SCALAR	3	SCALAR	4	SCALAR	5	SCALAR	6	SCALAR	7
SCALAR	1	SCALAR	2	SCALAR	3	SCALAR	4	SCALAR	5	SCALAR	6	SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15
.1000E+01	16	.1000E+01										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7
.0000E+00	8	.0000E+00										
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15
.0000E+00	16	.0000E+00										
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23
.0000E+00	24	.0000E+00										

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 94

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000384 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
 Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 95

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000385 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00

.0000E+00 24 .0000E+00  
 \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 96

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000386 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR  
 -----  
 -----  
 DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00  
 \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 15:28:00

PAGE 97

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000387 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR  
 -----  
 -----  
 DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7

.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 98

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000388 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 99

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000389 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR



```

- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23
*** AERMET - VERSION 16216 *** ***
*** 15:28:00

```

PAGE 100

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

```

SOURCE ID = L0000390 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR

```

```

- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15
.1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7
.0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15
.0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23
.0000E+00 24 .0000E+00

```

```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and
Barnett\14775 *** 04/03/23

```

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 15:28:00

PAGE 101

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000391 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 102

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000392 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 103

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000393 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 104

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000394 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 105

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000395 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	
.1000E+01	16	.1000E+01											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	
.0000E+00	8	.0000E+00											
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	
.0000E+00	16	.0000E+00											
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	
.0000E+00	24	.0000E+00											

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 106

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000396 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15  
.1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7  
.0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15  
.0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23  
.0000E+00 24 .0000E+00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and  
Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 107

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 481674.7, 3733528.2, 432.6, 432.6, 0.0); ( 481678.5, 3733485.2,  
433.0, 433.0, 0.0);  
( 482332.4, 3733529.2, 434.0, 434.0, 0.0); ( 482109.7, 3733729.3,  
433.0, 433.0, 0.0);  
( 482224.9, 3733718.8, 433.0, 433.0, 0.0); ( 481358.9, 3733604.3,  
432.0, 432.0, 0.0);  
( 481263.4, 3733447.0, 432.0, 432.0, 0.0); ( 481263.1, 3733556.7,  
431.8, 431.8, 0.0);  
( 481632.2, 3732857.9, 433.0, 433.0, 0.0); ( 482685.2, 3732853.1,  
435.0, 435.0, 0.0);  
( 482130.0, 3732676.5, 435.0, 435.0, 0.0); ( 482403.3, 3732672.4,  
435.8, 435.8, 0.0);  
( 481674.8, 3732799.4, 433.0, 433.0, 0.0); ( 482838.5, 3733632.3,  
435.0, 435.0, 0.0);  
( 483293.6, 3733685.7, 436.0, 436.0, 0.0); ( 483197.2, 3731112.9,  
441.2, 651.0, 0.0);  
( 483154.3, 3731089.9, 441.0, 651.0, 0.0); ( 484158.5, 3733886.5,  
441.5, 441.5, 0.0);

```
Upper air station no.:    3190
                        Name: UNKNOWN
                        Year: 2010
```

## First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD
HT	REF	TA		HT														
-----																		
-----																		
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.		
9.1	282.5			5.5														
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.		
9.1	280.9			5.5														
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.		
9.1	280.4			5.5														
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.		
9.1	278.8			5.5														
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.		
9.1	278.1			5.5														
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.		
9.1	277.0			5.5														
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.		
9.1	277.0			5.5														
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.		
9.1	278.8			5.5														
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.		
9.1	284.2			5.5														
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.		
9.1	289.2			5.5														
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.		
9.1	290.9			5.5														
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.		
9.1	293.1			5.5														
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.		
9.1	293.8			5.5														
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.		
9.1	294.2			5.5														
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.		
9.1	293.8			5.5														
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.		
9.1	292.5			5.5														
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.		
9.1	290.4			5.5														
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.		
9.1	287.5			5.5														
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.		
9.1	285.9			5.5														
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.		
9.1	285.4			5.5														
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.		
9.1	284.9			5.5														
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.		
9.1	283.1			5.5														
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.		
9.1	281.4			5.5														
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.		
9.1	280.9			5.5														

## First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 110

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE  
GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): L0000487 , L0000488 , L0000489 ,  
L0000490 , L0000491 ,  
L0000492 , L0000493 , L0000494 , L0000495 , L0000496 , L0000497 ,  
L0000498 , L0000499 ,  
L0000500 , L0000501 , L0000502 , L0000503 , L0000504 , L0000505 ,  
L0000506 , L0000507 ,  
L0000508 , L0000509 , L0000510 , L0000511 , L0000512 , L0000513 ,  
L0000514 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

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

\*\*

	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)
CONC					
0.01034	481674.68	3733528.18	0.00945	481678.55	3733485.20
0.02028	482332.42	3733529.19	0.00982	482109.67	3733729.33
0.00228	482224.88	3733718.77	0.01732	481358.93	3733604.26
0.00184	481263.43	3733447.05	0.00194	481263.12	3733556.71
0.00255	481632.16	3732857.88	0.00371	482685.25	3732853.15
0.00423	482129.97	3732676.48	0.00464	482403.26	3732672.44
0.00145	481674.81	3732799.36	0.00344	482838.46	3733632.31
0.00061	483293.65	3733685.67	0.00073	483197.16	3731112.95
0.00038	483154.33	3731089.88	0.00061	484158.53	3733886.47
0.00081	484127.24	3733944.44	0.00038	480863.49	3734010.10
0.01798	481969.25	3732847.29	0.00696	481994.88	3733761.91

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 111

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS

\*\*\*



\*\* CONC OF DPM

IN MICROGRAMS/M\*\*3

\*\*

GROUP	NETWORK ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF
TYPE	GRID-ID			
ALL	1ST HIGHEST VALUE IS	0.02028 AT (	482109.67, 3733729.33, 433.00, 433.00,	
0.00)	DC			
	2ND HIGHEST VALUE IS	0.01798 AT (	481994.88, 3733761.91, 433.00, 433.00,	
0.00)	DC			
	3RD HIGHEST VALUE IS	0.01732 AT (	482224.88, 3733718.77, 433.00, 433.00,	
0.00)	DC			
	4TH HIGHEST VALUE IS	0.01034 AT (	481678.55, 3733485.20, 433.00, 433.00,	
0.00)	DC			
	5TH HIGHEST VALUE IS	0.00982 AT (	482332.42, 3733529.19, 434.00, 434.00,	
0.00)	DC			
	6TH HIGHEST VALUE IS	0.00945 AT (	481674.68, 3733528.18, 432.59, 432.59,	
0.00)	DC			
	7TH HIGHEST VALUE IS	0.00696 AT (	481969.25, 3732847.29, 434.00, 434.00,	
0.00)	DC			
	8TH HIGHEST VALUE IS	0.00464 AT (	482129.97, 3732676.48, 435.00, 435.00,	
0.00)	DC			
	9TH HIGHEST VALUE IS	0.00423 AT (	482403.26, 3732672.44, 435.80, 435.80,	
0.00)	DC			
	10TH HIGHEST VALUE IS	0.00371 AT (	481632.16, 3732857.88, 433.00, 433.00,	
0.00)	DC			

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

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775 \*\*\* 04/03/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 15:28:00

PAGE 112

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 4 Warning Message(s)  
A Total of 2028 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 978 Calm Hours Identified  
  
A Total of 1050 Missing Hours Identified ( 2.40 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

ME W186	1565	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	1565	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	14010101
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

\*\*\*\*\*

\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

Emergency Diesel Fire Pumps:

Table 1  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
0-2 Age Bin Exposure Scenario - Construction Activity

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
					(ug/m <sup>3</sup> ) <sup>-1</sup>	(mg/kg/day) <sup>-1</sup>	(mg/kg-day)	(i)	(ug/m <sup>3</sup> )	(mg/kg/day)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01796	1.80E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-05	1.5E-06	5.0E+00	1.4E-03	3.6E-03							
TOTAL					1.5E-06				3.6E-03		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

1.51

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN           Kidney  
GI/LV          Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES           Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	240
exposure duration (years)	0.92
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
					(ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	(mg/kg/day) <sup>-1</sup> ( g )	(mg/kg-day) ( h )	 ( i )	(ug/m <sup>3</sup> ) ( j )	(mg/kg/day) ( k )	 ( l )	 ( m )	 ( n )	 ( o )	 ( p )	 ( q )	 ( r )	 ( s )
( a )	( b )	( c )	( d )	( e )	( f )	( g )	( h )	( i )	( j )	( k )	( l )	( m )	( n )	( o )	( p )	( q )	( r )	( s )
	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.5E-07	1.5E-07	5.0E+00	1.4E-03	1.3E-04							
TOTAL								1.5E-07			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.15

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN           Kidney  
GI/LV           Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES           Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	13.23
inhalation rate (L/kg-day)	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years)	3

Table 4  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
16-30 Age Bin Exposure Scenario

Source  ( a )	Mass GLC		Weight Fraction  ( d )	Contaminant  ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )
	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.6E-07	2.4E-08	5.0E+00	1.4E-03	1.3E-04							
TOTAL								2.4E-08			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.02

\*\* Key to Toxicological Endpoints

RESP      Respiratory System  
CNS/PNS    Central/Peripheral Nervous System  
CV/BL      Cardiovascular/Blood System  
IMMUN      Immune System  
KIDN        Kidney  
GI/LV        Gastrointestinal System/Liver  
REPRO      Reproductive System (e.g. teratogenic and developmental effects)  
EYES        Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
exposure duration (years)                    14  
inhalation rate (L/kg-day))                  261  
inhalation absorption factor                  1  
averaging time (years)                        70  
fraction of time at home                      0.73  
age sensitivity factor (ages 16 to 30 years old)            1

Total Risk for All Age Bins (per million)            1.68

Table 1  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
					(ug/m <sup>3</sup> ) <sup>-1</sup>	(mg/kg/day) <sup>-1</sup>	(mg/kg-day)		(ug/m <sup>3</sup> )	(mg/kg/day)								
( a )	( b )	( c )	( d )	( e )	( f )	( g )	( h )	( i )	( j )	( k )	( l )	( m )	( n )	( o )	( p )	( q )	( r )	( s )
	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.2E-07	7.0E-09	5.0E+00	1.4E-03	1.3E-04							
TOTAL					7.0E-09				1.3E-04			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN        Immune System  
KIDN           Kidney  
GI/LV          Gastrointestinal System/Liver  
REPRO        Reproductive System (e.g. teratogenic and developmental effects)  
EYES          Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day)	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester)	10

Table 2  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
					(ug/m <sup>3</sup> ) <sup>-1</sup>	(mg/kg/day) <sup>-1</sup>	(mg/kg-day)	(i)	(ug/m <sup>3</sup> )	(mg/kg/day)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.6E-07	1.7E-07	5.0E+00	1.4E-03	1.3E-04							
TOTAL					1.7E-07				1.3E-04				0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN           Kidney  
GI/LV           Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
					(ug/m <sup>3</sup> ) <sup>-1</sup> (f)	(mg/kg/day) <sup>-1</sup> (g)	(mg/kg-day) (h)	(i)	(ug/m <sup>3</sup> ) (j)	(mg/kg/day) (k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
(a)	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.5E-07	1.6E-07	5.0E+00	1.4E-03	1.3E-04							
TOTAL								1.6E-07			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS       Central/Peripheral Nervous System  
CV/BL          Cardiovascular/Blood System  
IMMUN         Immune System  
KIDN           Kidney  
GI/LV          Gastrointestinal System/Liver  
REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
EYES           Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years)	3



Table 4  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
16-30 Age Bin Exposure Scenario

Source  ( a )	Mass GLC		Weight Fraction  ( d )	Contaminant  ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )
	0.00063	6.30E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.6E-07	2.4E-08	5.0E+00	1.4E-03	1.3E-04							
TOTAL								2.4E-08			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.02

\*\* Key to Toxicological Endpoints

RESP      Respiratory System  
CNS/PNS    Central/Peripheral Nervous System  
CV/BL      Cardiovascular/Blood System  
IMMUN      Immune System  
KIDN        Kidney  
GI/LV        Gastrointestinal System/Liver  
REPRO      Reproductive System (e.g. teratogenic and developmental effects)  
EYES        Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)            350  
exposure duration (years)                    14  
inhalation rate (L/kg-day))                  261  
inhalation absorption factor                  1  
averaging time (years)                        70  
fraction of time at home                      0.73  
age sensitivity factor (ages 16 to 30 years old)            1

Total Risk for All Age Bins (per million)            0.36

# Emergency Diesel Fire Pump Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
- 4. Operations Emissions Details
  - 4.1. Mobile Emissions by Land Use
    - 4.1.1. Unmitigated
  - 4.2. Energy
    - 4.2.1. Electricity Emissions By Land Use - Unmitigated
    - 4.2.3. Natural Gas Emissions By Land Use - Unmitigated
  - 4.3. Area Emissions by Source

4.3.2. Unmitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 5.10.2. Architectural Coatings

#### 5.10.3. Landscape Equipment

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

### 5.12. Operational Water and Wastewater Consumption

#### 5.12.1. Unmitigated

### 5.13. Operational Waste Generation

#### 5.13.1. Unmitigated

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

### 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Emergency Diesel Fire Pump
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	Menifee, CA, USA
County	Riverside-South Coast
City	Menifee
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5507
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.7

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0.00	—	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.34	0.31	0.87	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	160	160	0.01	< 0.005	0.00	160
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.34	0.31	0.87	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	160	160	0.01	< 0.005	0.00	160
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.04	0.12	0.11	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	22.7	22.7	< 0.005	< 0.005	0.00	22.8
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.76	3.76	< 0.005	< 0.005	0.00	3.77

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Total	0.34	0.31	0.87	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	160	160	0.01	< 0.005	0.00	160
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Total	0.34	0.31	0.87	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	160	160	0.01	< 0.005	0.00	160
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.05	0.04	0.12	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.7	22.7	< 0.005	< 0.005	—	22.8
Total	0.05	0.04	0.12	0.11	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	22.7	22.7	< 0.005	< 0.005	0.00	22.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.01	0.01	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.76	3.76	< 0.005	< 0.005	—	3.77
Total	0.01	0.01	0.02	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	3.76	3.76	< 0.005	< 0.005	0.00	3.77

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

## 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

## 4.3. Area Emissions by Source

## 4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.7. Offroad Emissions By Equipment Type

## 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.8. Stationary Emissions By Equipment Type

## 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Total	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Total	0.34	0.31	0.87	0.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	160	160	0.01	< 0.005	—	160
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.76	3.76	< 0.005	< 0.005	—	3.77
Total	0.01	0.01	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.76	3.76	< 0.005	< 0.005	—	3.77

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
--------	------	-------

Snow Days	day/yr	0.00
Summer Days	day/yr	0.00

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
User Defined Industrial	0.00	349	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
User Defined Industrial	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
User Defined Industrial	0.00	0.00

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
---------------	----------------	-------------	-----	---------------	----------------------	-------------------	----------------

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	2.00	0.50	26.0	190	0.73

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1. Biomass Cover Type

## 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	9.89	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.



The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	88.7
AQ-PM	49.9
AQ-DPM	38.9
Drinking Water	10.2
Lead Risk Housing	9.16
Pesticides	0.00
Toxic Releases	21.9
Traffic	85.7
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	22.1
Haz Waste Facilities/Generators	58.3
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	70.4
Cardio-vascular	93.4

Low Birth Weights	8.60
Socioeconomic Factor Indicators	—
Education	43.1
Housing	79.6
Linguistic	9.46
Poverty	58.9
Unemployment	—

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	47.83780316
Employed	0.859745926
Median HI	13.7944309
Education	—
Bachelor's or higher	28.35878352
High school enrollment	100
Preschool enrollment	18.51661748
Transportation	—
Auto Access	42.71782369
Active commuting	49.45463878
Social	—
2-parent households	87.5914282
Voting	83.07455409
Neighborhood	—
Alcohol availability	91.32554857

Park access	2.194276915
Retail density	24.6888233
Supermarket access	20.23610933
Tree canopy	1.873476197
Housing	—
Homeownership	53.58655203
Housing habitability	51.93122033
Low-inc homeowner severe housing cost burden	84.28076479
Low-inc renter severe housing cost burden	15.01347363
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	44.48864365
Arthritis	0.2
Asthma ER Admissions	65.8
High Blood Pressure	0.2
Cancer (excluding skin)	0.2
Asthma	37.3
Coronary Heart Disease	0.2
Chronic Obstructive Pulmonary Disease	0.4
Diagnosed Diabetes	0.9
Life Expectancy at Birth	4.8
Cognitively Disabled	6.4
Physically Disabled	0.3
Heart Attack ER Admissions	21.4
Mental Health Not Good	72.2
Chronic Kidney Disease	0.2
Obesity	41.1

Pedestrian Injuries	52.8
Physical Health Not Good	12.8
Stroke	0.4
Health Risk Behaviors	—
Binge Drinking	99.6
Current Smoker	80.3
No Leisure Time for Physical Activity	20.7
Climate Change Exposures	—
Wildfire Risk	3.5
SLR Inundation Area	0.0
Children	94.0
Elderly	0.5
English Speaking	66.0
Foreign-born	18.5
Outdoor Workers	16.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	52.2
Traffic Density	61.7
Traffic Access	23.0
Other Indices	—
Hardship	80.3
Other Decision Support	—
2016 Voting	79.4

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	39.0

Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.  
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Landscape Equipment	o
Operations: Emergency Generators and Fire Pumps	2 emergency diesel generators