Appendix A Facility Emissions

First Sampling Period: January 25-26, 2022
Union Carbide Corporation
South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

DEP Monitoring Period Start (Date/Time)	1/25/22 12:30 p.m.
DEP Monitoring Period End (Date/Time)	1/26/22 12:30 p.m.

Oxide Adducts Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for DEP Monitoring Period (lb)
X		E704	0
X		E705	0
X		E706	0
X		E707	0
X		E708	0
x		T9120	0.0003229
x		T9121	0.0003229
x		T9128	0.0003229
x		T9129	0.0003229
	x	T9151	0
x		T9180	0.0003229
x		T9181	0.0003229
	x	T9182	0
x		T9186	0.0003229
x		T9187	0.0003229
	x	T9223	0
	x	T9228	0
x		T9502	0.0003229
x		T9504	0.0003229
	x	T9505	0
	x	T9507	0
x		T9509	0.0003229
x		T9510	0.0003229
x		T9511	0.0003229
x		T9512	0.0003229
x		T9553	0.0003229
x		T9554	0.0003229
x		T9555	0.0003229
x		T9556	0.0003229

x		T9562	0.0003229
x		T9563	0.0003229
x		T9565	0.0003229
x		T9568	0.0003229
x		T9569	0.0003229
x		T9612	0.0003229
x		T9614	0.0003229
x		T9615	0.0003229
x		T9616	0.0003229
x		T9617	0.0003229
x		T9619	0.0003229
x		T9622	0.0003229
x		T9624	0.0003229
x		T9625	0.0003229
	x	T9627	0
x		T9629	0.0003229
x		T9632	0.0003229
x		T9634	0.0003229
x		T9635	0.0003229
x		T9637	0.0003229
x		T9640	0.0003229
	x	T9643	0
	x	T9645	0
x		T9646	0.0003229
x		T9649	0.0003229
x		T9734	0.0003229
x		T9736	0.0003229
x		T9738	0.0003229
x		T9749	0.0003229
x		T9798	0.0003229
x		T9812	0.0003229
x		T9814	0.0003229
x		T9815	0.0003229
x		T9822	0.0003229
x		T9824	0.0003229
x		T9825	0.0003229

x		L001TT1	0.0003229
x		L001TT2	0.0003229
	x	L001TT3	0
	x	L001TT4	0

	x	L001TT5	0
	x	L001TT6	0

Oxide Adducts Fugitive Sources

x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

TRITON- DOW/UCC - South Charleston_WV - ALL Sources (Point and Fugitive)
TRITON- South Charleston_WV - Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
X		E10813	0.09
X		L001	0.003962
X		L002	0.003962
X		L003	0.003962
X		L004	0.003962
X		T8313	0.002211
X		T8314	0.002211
X		T8320	0.002211
X		T8322	0.002211
X		T8323	0.002211
X		T8331	0.002211
X		T8334	0.002211
X		T8343	0.002211
X		T8344	0.002211
X		T8360	0.002211
X		T8361	0.002211
X		T8363	0.002211
X		T8364	0.002211
X		T8373	0.002211
X		T8380	0.002211
X		T8381	0.002211
X		T8383	0.002211

TRITON Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		Chemical Mixing	0.013115
		Facility Total	0.524244934

First Sampling Period: January 25-26, 2022
Covestro LLC
South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	January 25th 12:30pm
Monitoring Period End (Date/Time)	January 26th 12:30pm

Operating w/EO? Yes	No	Point Source	Emissions for Monitoring Period (lb/hr)	Total:
	x	1RX	0	
	x	2RX	0	
	x	3RX	0	
2 of 3		789RX	0.0045	0.11
		Fugitive Source		
Yes		EO03 Fugitives - CEO03F	0.0041	0.099
Yes		PhaseIV Fugitives - CPIVF	0.007	0.16
Fugitives based on 5 year average. 2016 - 2020			Facility Total	0.369

First Sampling Period: January 25-26, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	1/25/2022 11:30 a.m.
DEP Monitoring Period End (Date/Time)	1/26/2022 11:30 a.m.

Operating? Yes	Operating? No	Point Source	Emissions for DEP Monitoring Period (lb)
x		EODISTFL	0.561718
		Fugitive Source	
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.005570

First Sampling Period: January 25-26, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	1/25/2022 11:00
Monitoring Period End (Date/Time)	1/26/2022 11:00

Polyox - Institute Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb/hr)
x		221A	0.0360
x		230M	0.0202
x		230L	0.0888
x		230K	0.0211
x		230O	0.0026
	x	230HH	0.0000

Polyox - Institute Fugitive Sources

x		POLYVOL1	0.0082	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr	0.1791
Facility Total	4.2988

Second Sampling Period: February 15-16, 2022
Union Carbide Corporation
South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	2/15/22; 1:00 p.m.
Monitoring Period End (Date/Time)	2/16/22; 1:00 p.m.

Oxide Adducts Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
X		E704	0
	X	E705	0
	X	E706	0
X		E707	0.65
X		E708	0.75
X		T9120	0.0003229
X		T9121	0.0003229
X		T9128	0.0003229
X		T9129	0.0003229
	X	T9151	0
X		T9180	0.0003229
X		T9181	0.0003229
X		T9182	0.0003229
X		T9186	0.0003229
X		T9187	0.0003229
X		T9223	0.0003229
X		T9228	0.0003229
X		T9502	0.0003229
X		T9504	0.0003229
X		T9505	0.0003229
X		T9507	0.0003229
X		T9509	0.0003229
X		T9510	0.0003229
X		T9511	0.0003229
X		T9512	0.0003229
X		T9553	0.0003229
X		T9554	0.0003229
X		T9555	0.0003229
X		T9556	0.0003229
X		T9562	0.0003229
X		T9563	0.0003229

X		T9565	0.0003229
X		T9568	0.0003229
X		T9569	0.0003229
X		T9612	0.0003229
X		T9614	0.0003229
X		T9615	0.0003229
	X	T9616	0
X		T9617	0.0003229
X		T9619	0.0003229
X		T9622	0.0003229
X		T9624	0.0003229
X		T9625	0.0003229
X		T9627	0.0003229
X		T9629	0.0003229
X		T9632	0.0003229
X		T9634	0.0003229
X		T9635	0.0003229
X		T9637	0.0003229
X		T9640	0.0003229
	X	T9643	0
X		T9645	0.0003229
X		T9646	0.0003229
X		T9649	0.0003229
X		T9734	0.0003229
X		T9736	0.0003229
X		T9738	0.0003229
X		T9749	0.0003229
X		T9798	0.0003229
X		T9812	0.0003229
X		T9814	0.0003229
X		T9815	0.0003229
X		T9822	0.0003229
X		T9824	0.0003229
X		T9825	0.0003229

X		L001TT1	0.0003229
X		L001TT2	0.0003229
	X	L001TT3	0
	X	L001TT4	0
	X	L001TT5	0
	X	L001TT6	0

Oxide Adducts Fugitive Sources

x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

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TRITON- DOW/UCC - South Charleston, WV - ALL Sources (Point and Fugitive)
TRITON- South Charleston, WV - Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
X		E10813	0.16
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
x		T8320	0.002211
x		T8322	0.002211
x		T8323	0.002211
x		T8331	0.002211
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
x		T8364	0.002211
x		T8373	0.002211
	x	T8380	0
x		T8381	0.002211
x		T8383	0.002211
x		T8390	0.002211
	x	T8391	0
x		T8392	0.002211
	x	T8393	0
x		T8420	0.002211

TRITON Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
x		Chemical Mixing	0.013115
		Facility Total	1.989550452

Second Sampling Period: February 15-16, 2022
Covestro LLC
South Charleston

Covestro
South Charleston,
WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	February 15th, 1:00pm
Monitoring Period End (Date/Time)	February 16th, 1:00pm

Operating w/EO? Yes	Operating w/EO? No	Point Source	Emissions for Monitoring Period (lb/hr)	Total/Day
	x	1RX		
	x	2RX		
	x	3RX		
x		789RX	0.007	0.17
		Fugitive Source		
Yes		EO03 Fugitives - CEO03F	0.0041	0.099
Yes		PhaseIV Fugitives - CPIVF	0.007	0.16
Fugitives based on 5 year average. 2016 - 2020			Facility Total	0.429

Second Sampling Period: February 15-16, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

Monitoring Period Start (Date/Time)	2/15/22; 11:00 a.m.
Monitoring Period End (Date/Time)	2/16/22; 11:00 a.m.

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
x		EODISTFL	0.892490
		Fugitive Source	
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.336342

Second Sampling Period: February 15-16, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	2/15/2022 11:00
Monitoring Period End (Date/Time)	2/16/2022 11:00

Polyox - Institute Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb/hr)
x		221A	0.0360
x		230M	0.0210
x		230L	0.0987
x		230K	0.0195
x		230O	0.0028
	x	230HH	0.0000

Polyox - Institute Fugitive Sources

x		POLYVOL1	0.0069	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr	0.1870
Facility Total	4.4887

Third Sampling Period: March 23-24, 2022

Union Carbide Corporation

South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	3/23/22; 12:00 p.m.
Monitoring Period End (Date/Time)	3/24/22; 12:00 p.m.

Oxide Adducts Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
X		E704	0
X		E705	1.22
X		E706	0
	X	E707	0
X		E708	0.64
X		T9120	0.0003229
X		T9121	0.0003229
X		T9128	0.0003229
	X	T9129	0
	X	T9151	0
X		T9180	0.0003229
X		T9181	0.0003229
X		T9182	0.0003229
X		T9186	0.0003229
X		T9187	0.0003229
X		T9223	0.0003229
X		T9228	0.0003229
X		T9502	0.0003229
X		T9504	0.0003229
X		T9505	0.0003229
X		T9507	0.0003229
X		T9509	0.0003229
X		T9510	0.0003229
X		T9511	0.0003229
X		T9512	0.0003229
X		T9553	0.0003229
X		T9554	0.0003229
X		T9555	0.0003229
X		T9556	0.0003229
X		T9562	0.0003229
X		T9563	0.0003229

X		T9565	0.0003229
X		T9568	0.0003229
X		T9569	0.0003229
X		T9612	0.0003229
X		T9614	0.0003229
X		T9615	0.0003229
	X	T9616	0
X		T9617	0.0003229
X		T9619	0.0003229
X		T9622	0.0003229
X		T9624	0.0003229
X		T9625	0.0003229
X		T9627	0.0003229
X		T9629	0.0003229
X		T9632	0.0003229
X		T9634	0.0003229
	X	T9635	0
X		T9637	0.0003229
X		T9640	0.0003229
X		T9643	0.0003229
X		T9645	0.0003229
X		T9646	0.0003229
X		T9649	0.0003229
X		T9734	0.0003229
X		T9736	0.0003229
X		T9738	0.0003229
X		T9749	0.0003229
X		T9798	0.0003229
X		T9812	0.0003229
X		T9814	0.0003229
X		T9815	0.0003229
X		T9822	0.0003229
X		T9824	0.0003229
X		T9825	0.0003229

X		L001TT1	0.0003229
X		L001TT2	0.0003229
X		L001TT3	0.0003229
X		L001TT4	0.0003229
X		L001TT5	0.0003229
	X	L001TT6	0

Oxide Adducts Fugitive Sources

x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

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TRITON- DOW/UCC - South Charleston, WV - ALL Sources (Point and Fugitive)
TRITON- South Charleston, WV - Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
X		E10813	0.12
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
x		T8320	0.002211
	x	T8322	0
x		T8323	0.002211
	x	T8331	0
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
	x	T8364	0
x		T8373	0.002211
x		T8380	0.002211
x		T8381	0.002211
x		T8383	0.002211
	x	T8390	0
	x	T8391	0
	x	T8392	0
x		T8393	0.002211
x		T8420	0.002211

TRITON Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

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Chemical Mixing - South Charleston

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
x		Chemical Mixing	0.013115
		Facility Total	2.403564362

Third Sampling Period: March 23-24, 2022
Covestro LLC
South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	March 23, 12:00pm
Monitoring Period End (Date/Time)	March 24, 12:00pm

Operating w/EO? Yes	No	Point Source	Emissions for Monitoring Period (lb/hr)	Total/Day
x		1RX	0.000416	0.01
	x	2RX		
	x	3RX		
x		789RX	0.00458	0.11
		Fugitive Source		
Yes		EO03 Fugitives - CEO03F	0.0041	0.099
Yes		PhaseIV Fugitives - CPIVF	0.007	0.16
Fugitives based on 5 year average. 2016 - 2020			Facility Total	0.379

Third Sampling Period: March 23-24, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	3/23/2022 10:30 a.m.
DEP Monitoring Period End (Date/Time)	3/24/2022 10:30 a.m.

Operating? Yes	Operating? No	Point Source	Emissions for DEP Monitoring Period (lb)
x		EODISTFL	0.987750
		Fugitive Source	
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.431602

Third Sampling Period: March 23-24, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	3/23/2022 10:30
Monitoring Period End (Date/Time)	3/24/2022 10:30

Polyox - Institute Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb/hr)
x		221A	0.0360
x		230M	0.0218
x		230L	0.1023
x		230K	0.0212
x		230O	0.0219
	x	230HH	0.0000

Polyox - Institute Fugitive Sources

x		POLYVOL1	0.0055	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr	0.2109
Facility Total	5.0621

Fourth Sampling Period: April 26-27, 2022
Union Carbide Corporation
South Charleston

Union Carbide Corporation
South Charleston, WV
Plant ID 03900003

Monitoring Period Start (Date/Time)	4/26/22; 2:00 p.m.
Monitoring Period End (Date/Time)	4/27/22; 2:00 p.m.

Oxide Adducts Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
x		E704	0
x		E705	0
x		E706	0
x		E707	0
x		E708	0
x		T9120	0.0003229
x		T9121	0.0003229
	x	T9128	0
	x	T9129	0
	x	T9151	0
	x	T9180	0
	x	T9181	0
	x	T9182	0
x		T9186	0.0003229
x		T9187	0.0003229
	x	T9223	0
	x	T9228	0
x		T9502	0.0003229
	x	T9504	0
	x	T9505	0
	x	T9507	0
x		T9509	0.0003229
x		T9510	0.0003229
x		T9511	0.0003229
x		T9512	0.0003229
x		T9553	0.0003229
x		T9554	0.0003229
x		T9555	0.0003229
x		T9556	0.0003229
x		T9562	0.0003229
x		T9563	0.0003229

x		T9565	0.0003229
x		T9568	0.0003229
x		T9569	0.0003229
	x	T9612	0
x		T9614	0.0003229
x		T9615	0.0003229
x		T9616	0.0003229
x		T9617	0.0003229
x		T9619	0.0003229
x		T9622	0.0003229
x		T9624	0.0003229
	x	T9625	0.0003229
x		T9627	0.0003229
x		T9629	0.0003229
	x	T9632	0
	x	T9634	0
	x	T9635	0
	x	T9637	0
x		T9640	0.0003229
x		T9643	0.0003229
x		T9645	0.0003229
x		T9646	0.0003229
x		T9649	0.0003229
x		T9734	0.0003229
x		T9736	0.0003229
x		T9738	0.0003229
x		T9749	0.0003229
x		T9798	0.0003229
	x	T9812	0
		T9814	0.0003229
	x	T9815	0
x		T9822	0.0003229
x		T9824	0.0003229
x		T9825	0.0003229

x		L001TT1	0.0003229
x		L001TT2	0.0003229
x		L001TT3	0.0003229
x		L001TT4	0.0003229
x		L001TT5	0.0003229
x		L001TT6	0.0003229

Oxide Adducts Fugitive Sources

x		EO Header and Reactor 2	0.07656
x		Reactors 4 and 5	0.12169
x		Reactor 6	0.02462
x		Reactor 7	0.01079
x		Western Tip of Island	0.04514
x		Lower Island Bridge	0.02699

******** **********
* **

TRITON- DOW/UCC - South Charleston, WV - ALL Sources (Point and Fugitive)
TRITON- South Charleston, WV - Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb)
x		E10813	0.33
x		L001	0.003962
x		L002	0.003962
x		L003	0.003962
x		L004	0.003962
x		T8313	0.002211
x		T8314	0.002211
	x	T8320	0
	x	T8322	0
x		T8323	0.002211
x		T8331	0.002211
x		T8334	0.002211
x		T8343	0.002211
x		T8344	0.002211
x		T8360	0.002211
x		T8361	0.002211
x		T8363	0.002211
x		T8364	0.002211
x		T8373	0.002211
	x	T8380	0
x		T8381	0.002211
x		T8383	0.002211
x		T8390	0.002211
x		T8391	0.002211
x		T8392	0.002211
x		T8393	0.002211
x		T8420	0.002211

TRITON Fugitive Sources

x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
x		Fugitives Near Covestro	0.008525

******** **********
* **

Chemical Mixing - South Charleston

Operating?		Point Source	Emissions for Monitoring Period (lb)
Yes	No		
x		Chemical Mixing	0.013115
		Facility Total	0.755998534

Fourth Sampling Period: April 26-27, 2022
Covestro LLC
South Charleston

Covestro
South Charleston, WV
Plant ID 0390102

Monitoring Period Start (Date/Time)	April 26, 2:00pm
Monitoring Period End (Date/Time)	April 27, 2:00pm

Operating w/EO? Yes	Operating w/EO? No	Point Source	Emissions for Monitoring Period (lb/hr)	Total/Day
	x	1RX		
	x	2RX		
	x	3RX		
x		789RX	0.0046	0.11
		Fugitive Source		
x		EO03 Fugitives - CEO03F	0.0041	0.099
x		PhaseIV Fugitives - CPIVF	0.007	0.16
Fugitives based on 5 year average. 2016 - 2020			Facility Total	0.369

Fourth Sampling Period: April 25-26, 2022
Union Carbide Corporation
Institute

Union Carbide Corporation - Institute, WV
Ethylene Oxide Distribution
Plant ID 3900005

DEP Monitoring Period Start (Date/Time)	4/25/2022 11:00 a.m.
DEP Monitoring Period End (Date/Time)	4/26/2022 11:00 a.m.

Operating? Yes	Operating? No	Point Source	Emissions for DEP Monitoring Period (lb)
x		EODISTFL	0.932370
		Fugitive Source	
x		Railcar Unloading	0.376721
x		Pumps/Diked Area	0.611612
x		Tanks Area	0.343251
x		Flare Area	0.090246
x		Area Near Rt. 25	0.022022
		Facility Total	2.376222

Fourth Sampling Period: April 25-26, 2022
Specialty Products US, LLC
Institute

Specialty Products US, LLC (POLYOX)
Institute,
WV
Plant ID 03900682

Monitoring Period Start (Date/Time)	4/25/2022 11:00
Monitoring Period End (Date/Time)	4/26/2022 11:00

Polyox - Institute Point Sources

Operating? Yes	Operating? No	Point Source	Emissions for Monitoring Period (lb/hr)
	x	221A	0.0000
	x	230M	0.0000
	x	230L	0.0000
	x	230K	0.0000
	x	230O	0.0000
	x	230HH	0.0000

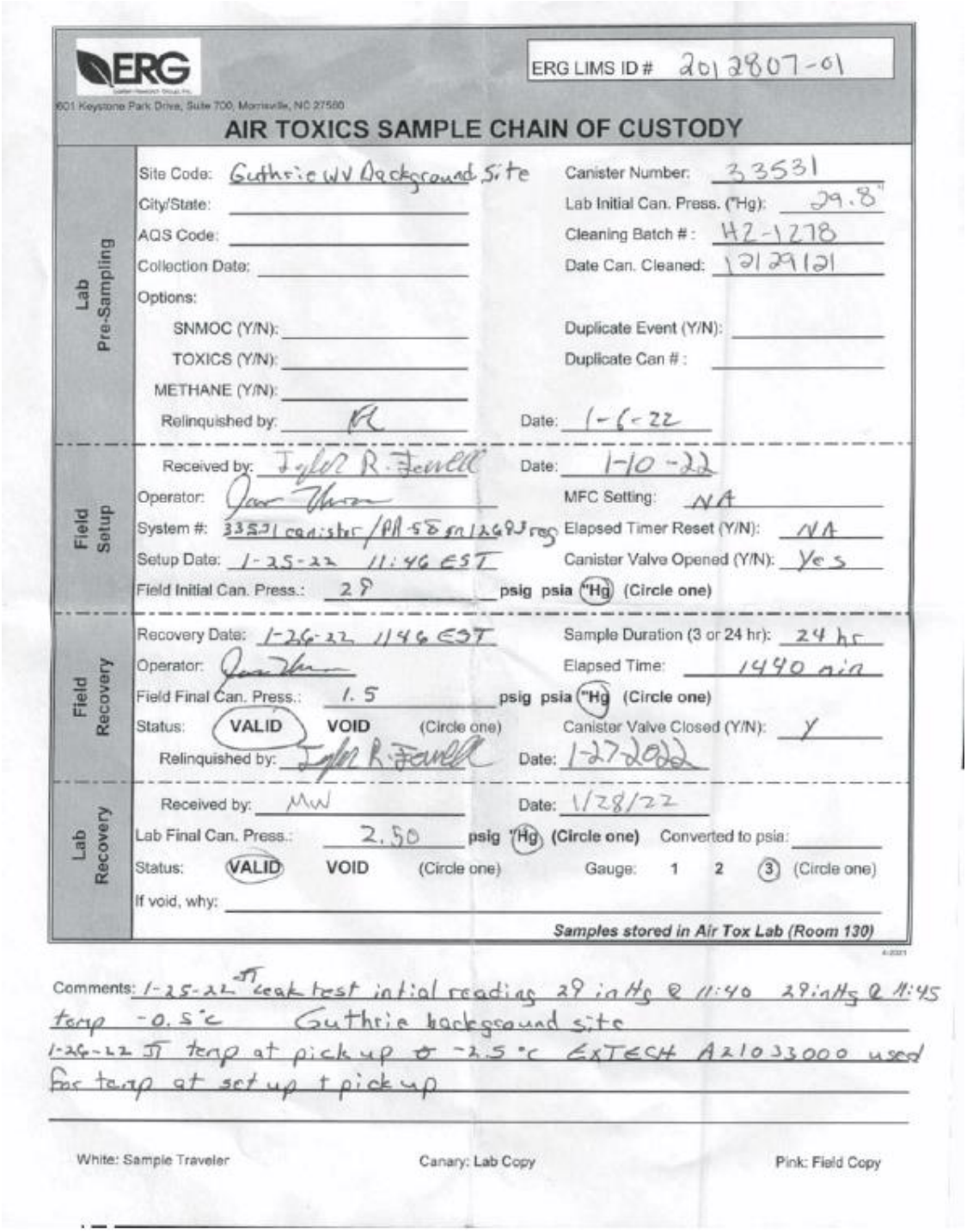
Polyox - Institute Fugitive Sources

x		POLYVOL1	0.0016	(0 - 30 feet release height)
x		BL8389A	0.0005	(30 - 60 feet release height)
x		BL8389B	0.0017	(60 - 90 feet release height)

Grand total lb/hr	0.0039
Facility Total	0.0929

Appendix B Chain of Custodies

First Sampling Period: January 25-26, 2022



ERG

ERG LIMS ID # 2012807-01

1601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: Guthrie WV Background Site — Canister Number: 33531
City/State: — Lab Initial Can. Press. ("Hg): 29.8"
AQS Code: — Cleaning Batch #: H2-1278
Collection Date: — Date Can. Cleaned: 12/29/21
Options:
SNMOC (Y/N): — Duplicate Event (Y/N): —
TOXICS (Y/N): — Duplicate Can #: —
METHANE (Y/N): —
Relinquished by: — Date: 1-6-22

Field Setup

Received by: Tyler R. Fennell — Date: 1-10-22
Operator: — MFC Setting: NA
System #: 33531 canister/PM-58 sn1268J reg — Elapsed Timer Reset (Y/N): NA
Setup Date: 1-25-22 11:46 EST — Canister Valve Opened (Y/N): Yes
Field Initial Can. Press.: 29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 1-26-22 1146 EST — Sample Duration (3 or 24 hr): 24 hr
Operator: — Elapsed Time: 1440 min
Field Final Can. Press.: 1.5 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) — Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fennell — Date: 1-27-2022

Lab Recovery

Received by: MW — Date: 1/28/22
Lab Final Can. Press.: 2.50 psig "Hg (Circle one) — Converted to psia: —
Status: VALID VOID (Circle one) — Gauge: 1 2 3 (Circle one)
If void, why: —

Samples stored in Air Tox Lab (Room 130)

Comments: 1-25-22 JT leak test initial reading 29 inHg @ 11:40 29 inHg @ 11:45 temp -0.5°c Guthrie background site
1-26-22 JT temp at pick up @ -2.5 °c EXTECH A21033000 used for temp at set up & pick up

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG LIMS ID # 20128107-02

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #0 South Charleston, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: KR
Canister Number: 19648
Lab Initial Can. Press. ("Hg): 29.8"
Cleaning Batch # : H1-1277
Date Can. Cleaned: 12/28/21
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 1-6-22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
System #: #0 PR-75
Setup Date: 1-25-2022 at 1215
Field Initial Can. Press.: 30 psig psia "Hg (Circle one)
Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 1-26-2022 at 1215
Operator: Tyler Fewell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: Tyler R. Fewell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-27-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.25 psig "Hg (Circle one)
Status: VALID VOID (Circle one)
If void, why: _____
Date: 1/28/22
Converted to psia: _____
Gauge: 1 2 3 (Circle one)

Samples stored in Air Tox Lab (Room 130)

4-2021

Comments: DHHR #0, Regulator # TF S/N - 15594
Leak Check passed.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG LIMS ID # 20128807-03

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #3 North Charleston, WV
City/State:
AQS Code:
Collection Date:
Options:
SNMOC (Y/N):
TOXICS (Y/N):
METHANE (Y/N):
Relinquished by: [illegible]
Canister Number: 18875
Lab Initial Can. Press. ("Hg): 29.7"
Cleaning Batch #: 12-1278
Date Can. Cleaned: 12/29/21
Duplicate Event (Y/N):
Duplicate Can #:
Date: 1-6-22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
System #: #3 PR-79
Setup Date: 1-25-2022 at 1300
Field Initial Can. Press.: 29.5 psig psia "Hg (Circle one)
Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 1-26-2022 at 1300
Operator: Tyler Fewell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: Tyler R Fewell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-27-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.6 psig "Hg (Circle one)
Status: VALID VOID (Circle one)
If void, why:
Date: 1/28/22
Converted to psia:
Gauge: 1 2 3 (Circle one)

Samples stored in Air Tox Lab (Room 130)

4-2021

Comments: North Charleston #3, Regulator S/N-15585
Leak Check passed.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG LIMS ID # 20178007-04

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #4 North Charleston, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Canister Number: 19280
Lab Initial Can. Press. ("Hg): 29.7"
Cleaning Batch # : H2-1277
Date Can. Cleaned: 12/28/21
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Relinquished by: [signature] Date: 1-6-22

Field Setup

Received by: Tyler R. Fewell Date: 1-10-22
Operator: Tyler Fewell
System #: #4, 15622 PR-76
Setup Date: 1-25-2022 at 1244
Field Initial Can. Press.: 29.2 psig psia "Hg (Circle one)
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 1-26-2022 at 1244
Operator: Tyler Fewell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fewell Date: 1-27-2022
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y

Lab Recovery

Received by: MW Date: 1/28/22
Lab Final Can. Press.: 0.6 (psig) "Hg (Circle one)
Converted to psia: _____
Status: (VALID) VOID (Circle one)
Gauge: 1 2 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

4-2021

Comments: North Charleston #4, Regulator S/N - 15584
Leak Check passed

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

Entech Flow Controller Calibration Report for 15597

Report Date:	Wednesday, October 13, 2021	**Operator Name:**	PB	**Location:**	Clean Room#1
Start Time:	1:42:34 PM	**Software Version:**	2.3.0.51	**Atmosphere:**	14.22 psia
Stop Time:	1:54:56 PM	**Firmware Version:**	1.0.0.6	**FP Serial No:**	0207
Duration:	12 min 22 sec	**Comm. Interval:**	400 ms	**FP App Id:**	1

Method Summary for #4_6L_24Hr.FP.Method

Flow Rate:	3.6 cc/min	**Recommended:**	#4	**Location:**	None
Canister Size:	6000 cc	**Restrictor Used:**	#4	**Atmosphere:**	14.7 psia
Duration:	1 Day	**Ballast Used:**	No Ballast	**Elevation:**	0 ft
Target:	-4 inHg(g)	**With Micro-QT™:**	No	**Temperature:**	25 °C
Controller:	CS1200E (New)	**With Extra Fitting:**	Yes	**Duplicate Fill:**	No

Leak Check Passed

Start Time:	1:42:34 PM	**Duration:**	2 min 42 sec	**Wait Time:**	1 min 22 sec
Stop Time:	1:45:17 PM	**Pass/Fail Rate:**	0.05 cc/min	**Leak Rate:**	0 cc/min

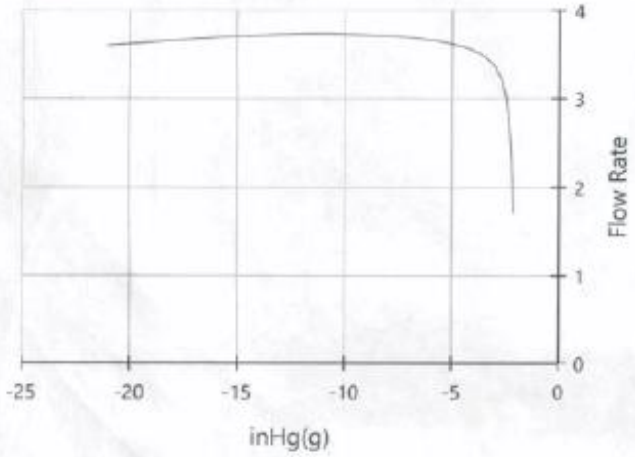
Calibration Summary

Start Time:	1:45:17 PM	**Duration:**	8 min 17 sec	**Initial Flow:**	8.8 cc/min
Stop Time:	1:53:34 PM	**Steps Moved:**	11334	**Final Flow:**	3.6 cc/min

Verification Summary

Start Time:	1:53:46 PM	**Duration:**	1 min 10 sec	**Drop Off:**	-3.41 inHg(g)
Stop Time:	1:54:56 PM	**Consistent Flow:**	Yes	**Avg. Flow:**	3.7 cc/min
Result Detail:	Optimal Range				

Flow Profile



Notes:

None

ERG

ERG LIMS ID # 2012807-05

501 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #10 Institute, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: KM
Canister Number: 40457
Lab Initial Can. Press. ("Hg): 29.7"
Cleaning Batch #: H2-1278
Date Can. Cleaned: 12/29/21
Duplicate Event (Y/N): _____
Duplicate Can #: _____
Date: 1-6-22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
System #: #10 T5b-22 PR-85 S/N 15589
Setup Date: 1-25-2022 at 1115
Field Initial Can. Press: 29 psig psia "Hg (Circle one)
Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 1-26-2022 at 1115
Operator: Tyler Fewell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: Tyler R. Fewell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-26-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.45 psig "Hg (Circle one)
Status: VALID VOID (Circle one)
If void, why: _____
Date: 1/28/22
Converted to psia: _____
Gauge: 1 2 3 (Circle one)

Samples stored in Air Tox Lab (Room 130)

4-2021

Comments: Institute #10 Regulator S/N - 15589
Leak check passed.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG

ERG LIMS ID # 20128 07-06

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #13 Institute, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: MC

Canister Number: 19656
Lab Initial Can. Press. ("Hg): 29.8"
Cleaning Batch # : H2-1278
Date Can. Cleaned: 12/29/21
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 1-6-22

Field Setup

Received by: Tyler R. Fennell
Operator: Tyler Fennell
System #: #13 PR-87
Setup Date: 1-25-2022 at 1055
Field Initial Can. Press.: 29 psig psia "Hg (Circle one)

Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Yes

Field Recovery

Recovery Date: 1-26-2022 at 1055
Operator: Tyler Fewell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fennell

Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-27-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.5 (psig) "Hg (Circle one)
Status: (VALID) VOID (Circle one)
If void, why: _____

Date: 1/28/22
Converted to psia: _____
Gauge: 1 2 (3) (Circle one)

Samples stored in Air Tox Lab (Room 130)

4/2021

Comments: # 13, Regulator S/N - 15586, Leak check passed

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG

ERG LIMS ID # 20128007-07

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #14 Institute, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: KR
Canister Number: 40451
Lab Initial Can. Press. ("Hg): 29.8"
Cleaning Batch # : #2-1278
Date Can. Cleaned: 12/29/21
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 1-6-22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
System #: TF 40451 TF #14 TF 1-26-22 PR-86
Setup Date: 1-25-2022 at 1034
Field Initial Can. Press.: 30 psig psia "Hg (Circle one)
Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): _____

Field Recovery

Recovery Date: 1-26-2022 at 1034
Operator: Tyler Fewell TF 1-26-22
Field Final Can. Press.: 2 0.5 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: Tyler R. Fewell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-27-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.5 (psig) "Hg (Circle one)
Status: VALID VOID (Circle one)
If void, why: _____
Date: 1/28/22
Converted to psia: _____
Gauge: 1 2 (3) (Circle one)

Samples stored in Air Tox Lab (Room 130)

6-2021

Comments: Institute #14, Regulator S/N - 15597
Leak Check passed.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG LIMS ID # 20128O7-08

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #15 Institute, WV
City/State: _____
AQS Code: _____
Collection Date: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: KR
Canister Number: 39938
Lab Initial Can. Press. ("Hg): 29.7"
Cleaning Batch # : H2-1277
Date Can. Cleaned: 12/28/21
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 1-6-22

Field Setup

Received by: Tyler R. Fennell
Operator: Tyler Fennell
System #: #15 PR-91 SN 15590
Setup Date: 1-25-2022 at 1140
Field Initial Can. Press.: 29.5 psig psia "Hg (Circle one)
Date: 1-10-22
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N/A
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 1-26-2022 at 1140
Operator: Tyler Fennell
Field Final Can. Press.: 0 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: Tyler R. Fennell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:00
Canister Valve Closed (Y/N): Y
Date: 1-27-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.85 psig "Hg (Circle one)
Status: VALID VOID (Circle one)
If void, why: _____
Date: 1/28/22
Converted to psia: _____
Gauge: 1 2 3 (Circle one)

Samples stored in Air Tox Lab (Room 130)

4-2021

Comments: Institute #15 Regulator S/N - 15590
Leak Check passed.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

Second Sampling Period: February 15-16, 2022

ERG
Eastern Research Group Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 2021802-01

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: Guthrie Background Site
Canister Number: 41635
City/State: _____
Lab Initial Can. Press. ("Hg): 30"
Options:
Cleaning Batch # : H2-1296
SNMOC (Y/N): _____
Date Can. Cleaned: 1/27/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: RMB
Date: 1/31/22

Field Setup

Received by: Tyler R. Fennell
Date: 2-1-2022
Operator: ~~EA~~ JT Jason Thomas
Start Date: 2-15-22
Probe ID #: ERG: PR58
Start Time: 1206 EST
Timer Used (Y/N): N
Timer ID #: N/A
Leak Check: (PASS) FAIL (Circle One)
Leak Check Rate: 0 (if applicable)
Field Initial Can. Press.: 29 in _____ "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
End Date: 2-16-2022
Operator: [signature]
End Time: 1206 GST
Field Final Can. Press.: 3 in Hg _____ "Hg
Status: (VALID) VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fennell
Date: 2-17-2022

Lab Recovery

Received by: GK
Date: 02-18-2022
Lab Final Can. Press.: 4.5 ("Hg)
Status: (VALID) VOID (Circle one)
Gauge: 1 2 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: 2-15-22 Leak check start 11:58 EST 29 in Hg end 1203 EST 29 in Hg 9°C sunny Dickson sn 15231184 JT
2-16-22 sunny 21°C Dickson sn 15231184 JT

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG

ERG Lab ID # 2021802-02

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #15 Institute, WV
Canister Number: 41558
City/State: _____
Lab Initial Can. Press. ("Hg): 30"
Options:
Cleaning Batch # : H1-1295
SNMOC (Y/N): _____
Date Can. Cleaned: 1/26/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: RMB
Date: 1/31/22

Field Setup

Received by: Tyler R. Fewell
Date: 2-1-22
Operator: Tyler Fewell
Start Date: 2-15-2022
Probe ID #: PR-87
Start Time: 1211
Timer Used (Y/N): N
Timer ID #: N/A 2-15-22 TF
Leak Check: **PASS** FAIL (Circle one)
Leak Check Rate: N/A 0 (if applicable)
Field Initial Can. Press.: 29.5 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
End Date: 2-16-2022
Operator: Tyler Fewell
End Time: 1211
Field Final Can. Press.: 1 "Hg
Status: **VALID** VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 2-17-2022

Lab Recovery

Received by: GK
Date: 02/18/2022
Lab Final Can. Press.: 3 "Hg
Status: **VALID** VOID (Circle one)
Gauge: 1 2 **3** (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak check at 1206 = 30 in Hg, at 1211 = 30 in Hg
Weather - 9.2°C, 757.3 mm Hg, Sunny (Streamline pro S19040)
Weather at pickup - 16.8°C, 753.3 mm Hg, Sunny, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 220218Z-03

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #13 Institute, WV
Canister Number: 41632
City/State: _____
Lab Initial Can. Press. ("Hg): 30"
Options:
Cleaning Batch # : H2-1296
SNMOC (Y/N): _____
Date Can. Cleaned: 1/27/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: RMB
Date: 1/31/22

Field Setup

Received by: Tyler R. Fewell
Date: 2-1-2022
Operator: Tyler Fewell
Start Date: 2-15-2022
Probe ID #: PR-85
Start Time: 1114
Timer Used (Y/N): N
Timer ID #: N/A
Leak Check: (PASS) FAIL (Circle One)
Leak Check Rate: ~~N/A~~ ~~2-15-22~~ TF 0 (if applicable)
Field Initial Can. Press.: 30 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
End Date: 2-16-2022
Operator: Tyler Fewell
End Time: 1114
Field Final Can. Press.: 1 "Hg
Status: (VALID) VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 2-17-2022

Lab Recovery

Received by: GK
Date: 02/18/2022
Lab Final Can. Press.: 2.1 "Hg
Status: ~~VALID~~ VOID (Circle one)
Gauge: 1 2 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak check at 1108 = 30 in Hg, Leak at 1113 = 30 in Hg
Weather - 4.5°C, 758.2mm Hg, Sunny at setup (Streamline pro 5/19/22)
weather - 16.3°C 753.8mm Hg, sunny, windy at take down.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2021802-04

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #14 Institute, WV
Canister Number: 41556
City/State: _____
Lab Initial Can. Press. ("Hg): 30"
Options:
Cleaning Batch # : H2-12960
SNMOC (Y/N): _____
Date Can. Cleaned: 1/27/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: RMB
Date: 1/31/22

Field Setup

Received by: Tyler R. Fewell
Date: 2-1-2022
Operator: Tyler Fewell
Start Date: 2-15-2022
Probe ID #: PR-75
Start Time: 1031
Timer Used (Y/N): N
Timer ID #: ~~N/A~~ TF N/A
Leak Check: **PASS** FAIL (Circle One)
Leak Check Rate: ~~N/A~~ 2-15-22 TF 0 (if applicable)
Field Initial Can. Press.: 30 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: ~~2-15~~ 2-15-22 TF 2-16-2022
End Date: 2-16-2022
Operator: Tyler Fewell
End Time: 1031
Field Final Can. Press.: 1 "Hg
Status: **VALID** VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 2-17-2022

Lab Recovery

Received by: MW
Date: 2/18/22
Lab Final Can. Press.: 0.5 "Hg
Status: **VALID** VOID (Circle one)
Gauge: 1 2 3 (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: leak check at 1025 = 30"Hg. Leak check at 1030 = 30"Hg
3.5°C, 757.9 mmHg, Sunny at setup. Streamline pro SP1040.
weather at pick up - 13.1°C, 753.7 mmHg, Sunny.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2021802-CS

ERG
Eastern Research Group Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #3 North Charleston
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: RMB Date: 1/31/22

Canister Number: 18831
Lab Initial Can. Press. ("Hg): 30"
Cleaning Batch # : H1-1294
Date Can. Cleaned: 1/25/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____

Field Setup

Received by: Tyler R. Fewell Date: 2-1-2022
Operator: Tyler Fewell
Probe ID #: PR-79
Timer Used (Y/N): N
Leak Check: (PASS) FAIL (Circle One)
Field Initial Can. Press.: 30 "Hg

Start Date: 2-15-2022
Start Time: 1303
Timer ID #: N/A 2-15-22 TF
Leak Check Rate: N/A 1.0 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
Operator: Tyler Fewell
Field Final Can. Press.: 1 "Hg
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fewell Date: 2-17-2022

End Date: 2-16-2022
End Time: 1303
Canister Valve Closed (Y/N): Y

Lab Recovery

Received by: GK Date: 02/18/2022
Lab Final Can. Press.: 0.3 "Hg
Status: (VALID) VOID (Circle one)
If void, why: _____

Gauge: 1 2 (3) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak at 1257 = 30 in Hg, Leak at TF 1302 = 29.0 in Hg
weather - 14.4°C, 756.8 mmHg, Sunny, Streamline pro S190402
weather at pick up - 18.6°C, 752.4 mmHg, Sunny, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2021802-06

ERG
Eastern Research Group Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #4 North Charleston
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: RMB Date: 1/31/22

Canister Number: 41569
Lab Initial Can. Press. ("Hg): 30"
Cleaning Batch # : H2-12796
Date Can. Cleaned: 1/27/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____

Field Setup

Received by: Tyler R. Fewell Date: 2-1-2022
Operator: Tyler Fewell
Probe ID #: PR-86
Timer Used (Y/N): N
Leak Check: **PASS** FAIL (Circle One)
Field Initial Can. Press.: 30 "Hg

Start Date: 2-15-2022
Start Time: 1242
Timer ID #: ~~TF~~ N/A N/A
Leak Check Rate: ~~N/A 2-15-22 TF~~ 0 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
Operator: Tyler Fewell
Field Final Can. Press.: 1.5 "Hg
Status: **VALID** VOID (Circle one)
Relinquished by: Tyler R. Fewell Date: 2-17-2022

End Date: 2-16-2022
End Time: 1242
Canister Valve Closed (Y/N): Y

Lab Recovery

Received by: GK Date: 2/18/2022
Lab Final Can. Press.: 0.6 "Hg
Status: **VALID** VOID (Circle one)
If void, why: _____

Gauge: 1 2 (3) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak at 1236 = 30 in Hg, Leak at 1241 = 30 in Hg
weather - 7.9°C, 757.3mmHg, Sunny (Streamline PO 5190402)
Had to tighten the corrector to get it to pass
the leak check. It initially was dropping too much
weather at pick up - 19.2°C, 753.0mmHg, Sunny, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 2021802-07

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #10 Institute, WV
City/State: _____
Options: _____
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: RMB
Canister Number: 411665
Lab Initial Can. Press. ("Hg): 30"
Cleaning Batch # : Hz-1296
Date Can. Cleaned: 11/27/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 1/31/22

Field Setup

Received by: Tyler R. Fewell
Date: 2-1-2022
Operator: Tyler Fewell
Probe ID #: PR-91
Timer Used (Y/N): N
Leak Check: (PASS) FAIL (Circle One)
Field Initial Can. Press.: 30 inHg "Hg
Start Date: 2-15-2022
Start Time: 1136
Timer ID #: N/A
Leak Check Rate: ~~N/A~~ 0 ~~2-15-22~~ TF (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 2-16-2022
Operator: Tyler Fewell
Field Final Can. Press.: 0 "Hg
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fewell
End Date: 2-16-2022
End Time: 1136
Canister Valve Closed (Y/N): Y
Date: 2-17-2022

Lab Recovery

Received by: GK
Date: 02/18/2022
Lab Final Can. Press.: 0.1 "Hg (5i)
Status: (VALID) VOID (Circle one)
Gauge: 1 2 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak check at 1130 = 30 inHg, Leak at 1035 = 30 inHg
weather- 5.0°C, 758.2 mmHg, sunny (Streamline pro S190402)
weather at pickup- 15.5°C, 753.3 mmHg, sunny, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

Third Sampling Period: March 23-24, 2022

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 2C32918-01

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #15 Institute, WV
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: CH
Canister Number: 41614
Lab Initial Can. Press. ("Hg): ~29.9
Cleaning Batch # : H2-1327
Date Can. Cleaned: 3/9/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
Probe ID #: PR-79
Timer Used (Y/N): N
Leak Check: **PASS** FAIL (Circle One)
Field Initial Can. Press.: 29.5 inHg "Hg
Date: 3-11-22
Start Date: 3-23-2022
Start Time: ~~3-23-2022 TF~~ 1113 EST
Timer ID #: N/A
Leak Check Rate: 0 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
Operator: Tyler Fewell
Field Final Can. Press.: 2.5 "Hg
Status: **VALID** VOID (Circle one)
Relinquished by: Tyler R. Fewell
End Date: 3-24-2022
End Time: 1113 EST
Canister Valve Closed (Y/N): Y
Date: 3-28-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 3.0 "Hg
Status: **VALID** VOID (Circle one)
If void, why: _____
Date: 3/29/22
Gauge: 1 2 (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak Check at 1106 EST t_{TF} = 29.5 inHg Check at 1111 EST t_{TF} = 29.5 inHg
Weather at set up 21.4°C, 734 736 H_{TF} inHg, Cloudy, windy
Weather at pick up 17.2°C, Partly Cloudy, Windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

C1

ERG Lab ID # 2032918-02

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #13 Institute, WV
City/State:
Options:
SNMOC (Y/N):
TOXICS (Y/N):
METHANE (Y/N):
Relinquished by: CH
Canister Number: 41619
Lab Initial Can. Press. ("Hg): -29.8
Cleaning Batch # : HI-1325
Date Can. Cleaned: 3/8/22
Duplicate Event (Y/N):
Duplicate Can # :
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
Probe ID #: PR-73
Timer Used (Y/N): N
Leak Check: (PASS) FAIL (Circle One)
Field Initial Can. Press.: 29 "Hg
Date: 3-11-22
Start Date: 3-23-2022
Start Time: 3-23-22 TF 1047 0947 EST
Timer ID #: N/A
Leak Check Rate: 1 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
Operator: Tyler Fewell
Field Final Can. Press.: 0 "Hg
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fewell
End Date: 3-24-2022
End Time: 0947 EST
Canister Valve Closed (Y/N): Y
Date: 3-28-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 0.30 ("Hg)
Status: (VALID) VOID (Circle one)
If void, why:
Date: 3/29/22
Gauge: 1 2 (1) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: leak Check at ~~1037~~ 0937 3-23-22 TF = 29 in Hg at ~~1042~~ 0942 3-23-22 TF = 28 in Hg
weather at set up 18.9°C, 737.7mm Hg, mostly cloudy
weather at pick up - 13.1°C, mostly cloudy, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

C2

ERG Lab ID # 2032918-03

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #13 C institute, WV
Canister Number: 18876
City/State: _____
Lab Initial Can. Press. ("Hg): -29.9
Options:
Cleaning Batch # : HI-1326
SNMOC (Y/N): _____
Date Can. Cleaned: 3/8/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: CG
Date: 3/10/22

Field Setup

Received by: Tyler R. Fennell
Date: 3-11-22
Operator: Tyler Fennell
Start Date: 3-23-22
Probe ID #: PR-41
Start Time: 3-23-22 TF 1047 0947 EST
Timer Used (Y/N): N
Timer ID #: N/A
Leak Check: **PASS** **FAIL** (Circle One)
Leak Check Rate: 1 (if applicable)
Field Initial Can. Press.: 29 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
End Date: 3-24-2022
Operator: Tyler Fennell
End Time: 0950 0947 EST to TF
Field Final Can. Press.: 8 "Hg
Status: **VALID** **VOID** (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fennell
Date: 3-28-2022

Lab Recovery

Received by: MW
Date: 3/29/22
Lab Final Can. Press.: 7.93 "Hg
Status: **VALID** **VOID** (Circle one)
Gauge: 1 2 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Collocated Sample. Leak check at ~~1037~~ 0937 TF 3-23-22 = -29 in Hg at 1042 0942 TF 3-23-22 = -28.0 in
weather at set up 18.9°C, 737.7 mm Hg, mostly cloudy.
weather at pick up 13.1°C, mostly cloudy, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2032918-04

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #3 North Charleston, WV
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: CH
Canister Number: 33506
Lab Initial Can. Press. ("Hg): ~29.9
Cleaning Batch # : H2-1327
Date Can. Cleaned: 3/9/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
Probe ID #: PR-87 ~~87~~ TF 3-23-2022
Timer Used (Y/N): N
Leak Check: **PASS** FAIL (Circle One)
Field Initial Can. Press.: 29 "Hg
Date: 3-11-22
Start Date: 3-23-2022
Start Time: 3-23-22 TF 1309 - 1209 EST
Timer ID #: N/A
Leak Check Rate: 0 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
Operator: Tyler Fewell
Field Final Can. Press.: 2.5 "Hg
Status: **VALID** VOID (Circle one)
Relinquished by: Tyler R. Fewell
End Date: 3-24-2022
End Time: 1209 EST
Canister Valve Closed (Y/N): Y
Date: 3-28-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 3.00 "Hg
Status: **VALID** VOID (Circle one)
If void, why: _____
Date: 3/29/22
Gauge: 1 2 (?) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: First regulator failed the leak check. Replaced with PR-87. Leak at 1302 = 29 in Hg, leak at 1307 = 29 in Hg
weather at set up = 23.4°C, 735.9 mmHg, cloudy, windy
weather at pick up = 18.5°C, Sunny, light wind

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2032918-05

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #D South Charleston, WV
Canister Number: 19296
City/State: _____
Lab Initial Can. Press. ("Hg): -29.9
Options:
Cleaning Batch # : H1-1326
SNMOC (Y/N): _____
Date Can. Cleaned: 3/9/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: CG
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Date: 3-11-22
Operator: Tyler Fewell
Start Date: 3-23-2022
Probe ID #: PR-77
Start Time: 3-23-22 TF 1335 1235 EST
Timer Used (Y/N): N
Timer ID #: N/A
Leak Check: (PASS) FAIL (Circle One)
Leak Check Rate: 0 (if applicable)
Field Initial Can. Press.: 29 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
End Date: 3-24-2022
Operator: Tyler Fewell
End Time: 1235 EST
Field Final Can. Press.: 7 "Hg
Status: (VALID) VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 3-28-2022

Lab Recovery

Received by: MW
Date: 3/29/22
Lab Final Can. Press.: 7.00 (Hg)
Status: (VALID) VOID (Circle one)
Gauge: 1 2 (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-3020

Comments: leak check at ~~1327 TE~~ 1227 EST 29 in Hg, at ~~1332 TE~~ 1232 EST 29 in Hg
weather at set up - 24.8°C, 735.2mm Hg, cloudy, windy
weather at pick up 20.3°C, cloudy, light wind

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2032918-06

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #4 North Charleston, WV
Canister Number: 18879
City/State: _____
Lab Initial Can. Press. ("Hg): -29.9
Options:
Cleaning Batch # : H1-1326
SNMOC (Y/N): _____
Date Can. Cleaned: 3/8/22
TOXICS (Y/N): _____
Duplicate Event (Y/N): _____
METHANE (Y/N): _____
Duplicate Can # : _____
Relinquished by: CG
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Date: 3-11-22
Operator: Tyler Fewell
Start Date: 3-23-2022
Probe ID #: PR-85
Start Time: 3-23-22 TF 1243 1143 EST
Timer Used (Y/N): N
Timer ID #: N/A
Leak Check: (PASS) FAIL (Circle One)
Leak Check Rate: 1 (if applicable)
Field Initial Can. Press.: 29 "Hg
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
End Date: 3-24-2022
Operator: Tyler Fewell
End Time: 1143 EST
Field Final Can. Press.: 2 "Hg
Status: (VALID) VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 3-28-2022

Lab Recovery

Received by: MW
Date: 3/29/22
Lab Final Can. Press.: 3.00 "Hg
Status: (VALID) VOID (Circle one)
Gauge: 1 2 (S) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak check at 1234 TF 29 inHg 1134 EST Leak at 1239 TF 28 inHg 1139 EST
weather at set up 22.4°C 736.2mm Hg, Sunny windy
weather at pick up 17.6°C, Sunny, light wind

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2072918-07

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #10 Institute, WV
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: CG
Canister Number: 19661
Lab Initial Can. Press. ("Hg): ≈29.8
Cleaning Batch # : H1-1326
Date Can. Cleaned: 3/8/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
Probe ID #: PR-91
Timer Used (Y/N): NA
Leak Check: (PASS) FAIL (Circle One)
Field Initial Can. Press.: 29.2 "Hg
Date: 3-11-22
Start Date: 3-23-2022
Start Time: 3-23-22 TE HH3 1013 EST
Timer ID #: N/A
Leak Check Rate: 0 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
Operator: Tyler Fewell
Field Final Can. Press.: 2 "Hg
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R Fewell
End Date: 3-24-2022
End Time: 1013 EST
Canister Valve Closed (Y/N): Y
Date: 3-28-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 2.50 (Hg)
Status: (VALID) VOID (Circle one)
If void, why: _____
Date: 3/29/22
Gauge: 1 2 (?) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak Check at 1006 EST 3-23-22 HH6 TE = 29.2 in Hg at 1011 EST 3-23-22 HH TE = 29.2 in Hg
Weather at setup = 18.9°C, 737.2 mm Hg, mostly cloudy
Weather at pick up 13.8°C, partly cloudy, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG
Eastern Research Group Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 2032918-08

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: #14 Institute, WV
City/State: _____
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: CG
Canister Number: 18878
Lab Initial Can. Press. ("Hg): 29.9
Cleaning Batch # : H2-1327
Date Can. Cleaned: 3/9/22
Duplicate Event (Y/N): _____
Duplicate Can # : _____
Date: 3/10/22

Field Setup

Received by: Tyler R. Fewell
Operator: Tyler Fewell
Probe ID #: PR-75
Timer Used (Y/N): N
Leak Check: (PASS) FAIL (Circle One)
Field Initial Can. Press.: 29.5 "Hg
Date: 3-11-22
Start Date: 3-23-2022
Start Time: ~~3-23-22 TF=1146~~ 1046 EST
Timer ID #: N/A
Leak Check Rate: 0.7 (if applicable)
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 3-24-2022
Operator: Tyler Fewell
Field Final Can. Press.: 3.5 "Hg
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fewell
End Date: 3-24-2022
End Time: 1046 EST
Canister Valve Closed (Y/N): Y
Date: 3-28-2022

Lab Recovery

Received by: MW
Lab Final Can. Press.: 3.50 ("Hg)
Status: (VALID) VOID (Circle one)
If void, why: _____
Date: 3/29/22
Gauge: 1 2 (?) (Circle one)

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: Leak check at 1039 EST TF=1139 29.9 inHg, check at 1044 EST TF=1144 =29.2
Weather at set up 20.9°C, 737 mmHg, windy, cloudy
Weather at pick up 15.3°C, sunny, windy

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 2032918-09

801 Keystone Park Drive, Suite 700, Morrisville, NC 27560

PASSIVE SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site: _____ Canister Number: 14300

City/State: _____ Lab Initial Can. Press. ("Hg): ~29.9

Options: Cleaning Batch # : H2-1327

SNMOC (Y/N): _____ Date Can. Cleaned: 3/9/22

TOXICS (Y/N): _____ Duplicate Event (Y/N): _____

METHANE (Y/N): _____ Duplicate Can # : _____

Relinquished by: CL Date: 3/10/22

Field Setup

Received by: Tyler R. Ferrell Date: 3-11-22

Operator: JT 3-24-22 Start Date: 3-24-22

Probe ID #: ~~RA 5A SN 12882 SN 15586~~ Start Time: 1:55 EST

Timer Used (Y/N): NA Timer ID #: NA

Leak Check: PASS FAIL (Circle One) Leak Check Rate: ~~>1 inHg in 5 min~~ (if applicable) 0 in Hg on 3-24-22 JT

3-24-22 JT

Field Initial Can. Press.: 28.5 "Hg Canister Valve Opened (Y/N): Y 3-24-22 JT

Field Recovery

Recovery Date: 3-25-22 End Date: 3-25-22

Operator: End Time: 1:55 EST

Field Final Can. Press.: 2 "Hg

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: Tyler R. Ferrell Date: 3-28-2022

Lab Recovery

Received by: MW Date: 3/29/22

Lab Final Can. Press.: 2.50 "Hg

Status: VALID VOID (Circle one) Gauge: 1 2 3 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

1-2020

Comments: 3-23-22 Leak check start at 1:07 EST, failed >1 inHg in 5 min. Tightened all fittings, Leak check start 1:16 EST failed >1 inHg in 5 min Not set up to sample on 3-23-22 due to no spare regulator. JT

3-24-22 Set up to sample on 3-24-22 with regulator sn 15586 Leak check start 1:47 EST 28 ~~in~~ in Hg Stop 1:52 EST 28 in Hg

28.5 ~~sent~~ in Hg start press JT

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

Fourth Sampling Period: April 25-26*, 2022
*April 26-27 for #0 South Charleston, #3 South Charleston, #4 North Charleston
UPDATE with Final from ERG

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG LIMS ID # 2042901-01

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #0 South Charleston, WV
Canister Number: 411642
City/State:
Lab Initial Can. Press. ("Hg): 30
AQS Code:
Cleaning Batch # : H2-1359
Collection Date:
Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N):
Duplicate Event (Y/N):
TOXICS (Y/N): xtox
Duplicate Can # :
METHANE (Y/N):
Relinquished by: MB
Date: 4/20/22

Field Setup

Received by: Tyler R. Fewell
Date: 4-21-22
Operator: Tyler Fewell
MFC Setting: N/A
System #: PR-SS 73
Elapsed Timer Reset (Y/N): N
Setup Date: 4-26-2022 at 1413 EST
Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.0 psig psia (Hg) (Circle one)

Field Recovery

Recovery Date: 4-27-22
Sample Duration (3 or 24 hr): 24hr
Operator: M. DRAKE
Elapsed Time: 1440 min
Field Final Can. Press.: 2.1 psig psia (Hg) (Circle one)
Status: (VALID) VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 4-28-2022

Lab Recovery

Received by: GK
Date: 4/29/22
Lab Final Can. Press.: 3.75 psig (Hg) (Circle one)
Status: (VALID) VOID (Circle one)
Gauge: 1 (3) (Circle one)
If void, why:

Samples stored in Air Tox Lab (Room 130)

01-2022

FIXED THREADS ARE STRIPPED, REPLACED VALVE

Comments: Possible threading Issue
Leak check at 1404 P=29.3 inHg, Leak at 1409=29.0 inHg
Weather at setup - 16.0°C, 749.4mmHg, Cloudy
used updated leak check procedure
Closed VALVE AT 14:13 EST. CROSS THREADED VALVE (GK 4/29/22

White: Sample Traveler
Canary: Lab Copy
Pink: Field Copy

ERG

ERG LIMS ID # ~~H~~ 2042901-02

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #3 North Charleston WV
Canister Number: 01605
City/State:
Lab Initial Can. Press. ("Hg): 30
AQS Code:
Cleaning Batch #: H2-1354
Collection Date:
Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N):
Duplicate Event (Y/N):
TOXICS (Y/N): etex
Duplicate Can #:
METHANE (Y/N):
Relinquished by: RMB
Date: 4/20/22

Field Setup

Received by: Tyler R. Fewell
Date: 4-21-22
Operator: Tyler Fewell
MFC Setting: N/A
System #: PR-65
Elapsed Timer Reset (Y/N): N
Setup Date: 4-26-2022 at 1336 EST
Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.0 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 4-27-22
Sample Duration (3 or 24 hr): 24
Operator: M. DRM
Elapsed Time: 1443 min
Field Final Can. Press.: 6 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell
Date: 4-28-2022

Lab Recovery

Received by: GK
Date: 4/28/22
Lab Final Can. Press.: 5.5 psig "Hg (Circle one)
Status: VALID VOID (Circle one)
Gauge: 1 (3) (Circle one)
If void, why:

Samples stored in Air Tox Lab (Room 130)

Comments: Possible threading Issue
Leak at 1329 EST = 29.5 in Hg, Leak at 1334 EST = 29.4 in Hg
weather at setup ~ 16.0°C, 749.4 mm Hg, cloudy
Used the updated leak check procedure
Temp = 21.4°C 756.5 psi Turned off Valve at 13:39 est
Threads on canister are striped Replace Valve.

White: Sample Traveler
Canary: Lab Copy
Pink: Field Copy

ERG

ERG LIMS ID # 2042901-03

5001 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #15 Institute, WV — Canister Number: 11610
City/State: — Lab Initial Can. Press. ("Hg): 30
AQS Code: — Cleaning Batch # : H2-1387
Collection Date: — Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N): — Duplicate Event (Y/N): —
TOXICS (Y/N): etex — Duplicate Can # : —
METHANE (Y/N): —
Relinquished by: MB — Date: 4/20/22 TF

Field Setup

Received by: Tyler R Fewell — Date: 4-21-22 ~~at~~ 1247 EST
Operator: Tyler Fewell — MFC Setting: N/A
System #: FR-21 — Elapsed Timer Reset (Y/N): N
Setup Date: 4-25-2022 at 1241 EST — Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.5 psig psia (Hg) (Circle one)

Field Recovery

Recovery Date: 4-26-2022 at — Sample Duration (3 or 24 hr): 24
Operator: Tyler Fewell — Elapsed Time: 24:00 hours
Field Final Can. Press.: 8 psig psia (Hg) (Circle one)
Status: VALID VOID (Circle one) — Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R Fewell — Date: 4-28-2022

Lab Recovery

Received by: GK — Date: 4/29/22
Lab Final Can. Press.: 7.5 psig (Hg) (Circle one)
Status: VALID VOID (Circle one) — Gauge: 1 (3) (Circle one)
If void, why: —

Samples stored in Air Tox Lab (Room 130)

Comments: leak at 1232 = 29.8 in Hg, Leak at 1237 = 29.0 in Hg
Weather at set up 31.0°C, Cloudy, light wind, 745.4 mmHg
Weather at pick up - 18.3°C, 749.8 mmHg, cloudy, light wind
We had heavy rain overnight

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

ERG

ERG LIMS ID # 2042901-04

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 41623

City/State: _____ Lab Initial Can. Press. ("Hg): 30

AQS Code: _____ Cleaning Batch # : H2-1359

Collection Date: _____ Date Can. Cleaned: 1/11/22

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): etch Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RWB Date: 4/20/22

Field Setup

Received by: Tyler R. Fowler Date: 4-21-2022

Operator: _____ MFC Setting: NA

System #: Can 41623 reg 15586 Elapsed Timer Reset (Y/N): NA

Setup Date: 4-25-22 Sample start 1158 EST Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: 29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 4-26-22 1158 EST Sample Duration (3 or 24 hr): 24 hr

Operator: _____ Elapsed Time: 1440 min

Field Final Can. Press.: 4 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: Tyler R. Fowler Date: 4-26-2022

Lab Recovery

Received by: GK Date: 4/27/22

Lab Final Can. Press.: 4 psig "Hg (Circle one)

Status: VALID VOID (Circle one) Gauge: 1 3 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

Comments: 4-25-22 Sunny 21°C Dickson 1522 1184 Leak check start 1149 EST 29 in Hg stop 1154 EST 29 in Hg JT

4-26-22 cloudy 10°C Dickson 1523 1184 heavy rain overnight JT

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG

ERG LIMS ID # 2042901-05

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #13 Institute, WV — Canister Number: 41582
City/State: — Lab Initial Can. Press. ("Hg): 30
AQS Code: — Cleaning Batch # : H2-1359
Collection Date: — Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N): — Duplicate Event (Y/N): —
TOXICS (Y/N): etox — Duplicate Can # : —
METHANE (Y/N): —
Relinquished by: RWB — Date: 4/26/22

Field Setup

Received by: Tyler R. Fewell — Date: 4-21-22 ~~at 1019 EST~~ TF
Operator: Tyler Fewell — MFC Setting: N/A
System #: PR-75 — Elapsed Timer Reset (Y/N): N
Setup Date: 4-25-2022 at 1019 EST — Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.9 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 4-26-2022 at 1120 EST — Sample Duration (3 or 24 hr): 24
Operator: Tyler Fewell — Elapsed Time: 25:01 hours
Field Final Can. Press.: 4 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) — Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell — Date: 4-28-2022

Lab Recovery

Received by: GK — Date: 4/29/22
Lab Final Can. Press.: 3 psig "Hg (Circle one)
Status: VALID VOID (Circle one) — Gauge: 1 (3) (Circle one)
If void, why: —

Samples stored in Air Tox Lab (Room 130)

21-2023

Comments: Leak at 1009=29.9 inHg, Leak at 1014=29.5 inHg
weather at setup ~ 29.4°C, 746.8 inHg,
weather at pickup ~ 14.9°C, 750.8 mmHg, cloudy, light wind
We had heavy rain overnight.

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

ERG

ERG LIMS ID # 2042901-06

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #14 Institute, WV — Canister Number: 01651
City/State: ____ — Lab Initial Can. Press. ("Hg): 30
AQS Code: ____ — Cleaning Batch #: 42-1359
Collection Date: ____ — Date Can. Cleaned: 11/8/22
Options:
SNMOC (Y/N): ____ — Duplicate Event (Y/N): ____
TOXICS (Y/N): xtox — Duplicate Can #: ____
METHANE (Y/N): ____
Relinquished by: RMB — Date: 11/20/22

Field Setup

Received by: Tyler R. Fewell — Date: 4-21-22 at ~~0927 EST~~ TF
Operator: Tyler Fewell — MFC Setting: N/A
System #: PR-77 — Elapsed Timer Reset (Y/N): N
Setup Date: 4-25-2022 at 0927 EST — Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.9 psig psia ("Hg) (Circle one)

Field Recovery

Recovery Date: 4-26-2022 at 1059 EST — Sample Duration (3 or 24 hr): 24
Operator: Tyler Fewell — Elapsed Time: 25.32 hours
Field Final Can. Press.: 7 psig psia ("Hg) (Circle one)
Status: (VALID) VOID (Circle one) — Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell — Date: 4/26-2022

Lab Recovery

Received by: GK — Date: 4/29/22
Lab Final Can. Press.: 5.5 psig ("Hg) (Circle one)
Status: (VALID) VOID (Circle one) — Gauge: 1 (3) (Circle one)
If void, why: ____

Samples stored in Air Tox Lab (Room 130)

Comments: Leak Check at 0959 EST TF = 29.8 in Hg, Leak Check at 0924 = 28.8 in Hg
weather at set up - 30°C, 746.4 mm Hg, Sunny
weather at pick up - 14.8°C, 750.5 mm Hg, Cloudy, light wind
we had heavy rain overnight.

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

ERG

ERG LIMS ID # 2042901-07

501 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #4 North Charleston, WV Canister Number: 11670
City/State: _____ Lab Initial Can. Press. ("Hg): 30
AQS Code: _____ Cleaning Batch # : H2-1396
Collection Date: _____ Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): _____
TOXICS (Y/N): etox Duplicate Can # : _____
METHANE (Y/N): _____
Relinquished by: RMB Date: 4/20/22

Field Setup

Received by: Tyler R. Fewell Date: 4-21-22
Operator: Tyler Fewell MFC Setting: N/A
System #: PR-79 Elapsed Timer Reset (Y/N): N
Setup Date: 4-26-2022 at 1314 EST Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: ~~30~~ 30 psig psia (Hg) (Circle one)

Field Recovery

Recovery Date: 4.27.22 Sample Duration (3 or 24 hr): 24 hr
Operator: M. DRAKE Elapsed Time: 24:0-5mp
Field Final Can. Press.: 2 psig psia (Hg) (Circle one) 1445 min
Status: (VALID) VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R. Fewell Date: 4-28-2022

Lab Recovery

Received by: GK Date: 4/29/22
Lab Final Can. Press.: 1.75 psig "Hg (Circle one)
Status: (VALID) VOID (Circle one) Gauge: 1 (3) (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

Comments: Leak check at ~~Noon~~ 1314 EST = 30 in Hg, Leak at 1311 = 29.4 in Hg
Weather at setup ~ 16.2°C, 749.5 mm Hg, Cloudy
We used the updated leak check procedure.
Closed valve @ 13:14 25T Temp = 20.1°C Pressure = 7.5 mm Hg
STEM IS TILTING OFF TO THE RIGHT OF THE VALVE GK 4/29/22

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG LIMS ID # 2042901-08

ERG
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #10 Institute, WV
City/State:
AQS Code:
Collection Date:
Options:
SNMOC (Y/N):
TOXICS (Y/N): etox
METHANE (Y/N):
Relinquished by: RMB
Canister Number: 41659
Lab Initial Can. Press. ("Hg): 30.0
Cleaning Batch # : H2-1359
Date Can. Cleaned: 4/18/22
Duplicate Event (Y/N):
Duplicate Can # :
Date: 4/20/22

Field Setup

Received by: Tyler R. Fennell
Operator: Tyler Fennell
System #: PR-91
Setup Date: 4-25-2022 at 1045 EST
Field Initial Can. Press.: 30 in Hg psig psia "Hg (Circle one)
Date: 4-21-22 at ~~1045 EST~~ TT
MFC Setting: N/A
Elapsed Timer Reset (Y/N): N
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: ~~4-27~~ 4-26-22 at 1136 EST
Operator: Tyler Fennell
Field Final Can. Press.: 2 psig psia "Hg (Circle one)
Status: (VALID) VOID (Circle one)
Relinquished by: Tyler R. Fennell
Sample Duration (3 or 24 hr): 24
Elapsed Time: 24:51 hours
Canister Valve Closed (Y/N): Y
Date: 4-26-22

Lab Recovery

Received by: GK
Lab Final Can. Press.: .5 psig "Hg (Circle one)
Status: (VALID) VOID (Cirde one)
If void, why:
Date: 4/27/22
Gauge: 1 (3) (Circle one)

Samples stored in Air Tox Lab (Room 130)

01.0000

Comments: Leak at 1037 = 30.0 in Hg, Leak at 1042 = 30.0 in Hg
Weather at setup 26.8°C, 746.4°C, sunny, light wind
weather at pick up 14.7°C, ~~1F~~ 750.5 mmHg, cloudy, light wind
We had heavy rain overnight.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG

ERG LIMS ID # 2042901 - 09

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #16 Buffalo, WV Background — Canister Number: 41607

City/State: — Lab Initial Can. Press. ("Hg): 30

AQS Code: — Cleaning Batch # : H2-1359

Collection Date: — Date Can. Cleaned: 4/18/22

Options:

SNMOC (Y/N): — Duplicate Event (Y/N): —

TOXICS (Y/N): Y — Duplicate Can # : —

METHANE (Y/N): —

Relinquished by: RMB — Date: 4/20/22

Field Setup

Received by: Tyler R. Fennell — Date: 4-21-22 at ~~0515 EST~~ TF

Operator: Tyler Fennell — MFC Setting: N/A

System #: ~~FR-53~~ FR-36 — Elapsed Timer Reset (Y/N): N

Setup Date: 4-25-2022 at 0518 EST — Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: 29.0 psig psia ("Hg) (Circle one)

Field Recovery

Recovery Date: 4-26-2022 at 0518 EST — Sample Duration (3 or 24 hr): 24

Operator: Tyler Fennell — Elapsed Time: 24:00

Field Final Can. Press.: 7 psig psia ("Hg) (Circle one)

Status: (VALID) VOID (Circle one) — Canister Valve Closed (Y/N): Y

Relinquished by: Tyler R. Fennell — Date: 4-26-2022

Lab Recovery

Received by: GK — Date: 4/27/22

Lab Final Can. Press.: 7.5 psig ("Hg) (Circle one)

Status: (VALID) VOID (Circle one) — Gauge: 1 (3) (Circle one)

If void, why: —

Samples stored in Air Tox Lab (Room 130)

Comments: Leak Check at ~~0609~~ TF 0509 EST = 29.5 in Hg, Leak at 0514 EST = 29.0 in Hg
weather at setup - 55°F, weather at pickup - 56.0°F
FR-53 Regulator Failed. Replaced with FR-36
Turned On at 0518 EST

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

ERG

ERG LIMS ID # 2042901-10

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: #13 Institute, WV Trip Blank — Canister Number: 41574
City/State: — Lab Initial Can. Press. ("Hg): 30.0
AQS Code: — Cleaning Batch # : 42-1351
Collection Date: — Date Can. Cleaned: 4/18/22
Options:
SNMOC (Y/N): — Duplicate Event (Y/N): —
TOXICS (Y/N): elex — Duplicate Can # : —
METHANE (Y/N): —
Relinquished by: RMB — Date: 4/20/22

Field Setup

Received by: TF Tyler Fewell — Date: 4-21-22 at 1019 EST TF
Operator: Tyler Fewell — MFC Setting: N/A
System #: N/A — Elapsed Timer Reset (Y/N): N
Setup Date: 4-25-2022 at 1019 EST — Canister Valve Opened (Y/N): N
Field Initial Can. Press.: N/A psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 4-26-2022 at 1130 EST — Sample Duration (3 or 24 hr): N/A
Operator: Tyler Fewell — Elapsed Time: N/A
Field Final Can. Press.: N/A psig psia "Hg (Circle one)
Status: (VALID) VOID (Circle one) — Canister Valve Closed (Y/N): Y
Relinquished by: Tyler R Fewell — Date: 4-28-2022

Lab Recovery

Received by: GK — Date: 4/29/22
Lab Final Can. Press.: 30 psig ("Hg) (Circle one)
Status: (VALID) VOID (Circle one) — Gauge: 1 (3) (Circle one)
If void, why: —

Samples stored in Air Tox Lab (Room 130)

04-2022

Comments: TF 4-25-2022 Used at ~~Lab~~ weather at setup ~~29.4°C, 746.9mmHg~~, Sunny, light wind
Regulator S/N 15599 failed, replaced w/ 15589
Used as Trip blank.
Weather at pick up - 14.9°C, 752.8mmHg, cloudy, light wind

White: Sample Traveler — Canary: Lab Copy — Pink: Field Copy

Appendix C Analytical Results

First Sampling Period: January 25-26, 2022

ERG

Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

February 07, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 01/28/22 10:55.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	Matrix	Sampled	Received
Guthrie WV Background Site	2012807-01	Air	01/25/22 23:59	01/28/22 10:55
#0 South Charleston, WV	2012807-02	Air	01/25/22 23:59	01/28/22 10:55
#3 North Charleston, WV	2012807-03	Air	01/25/22 23:59	01/28/22 10:55
#4 North Charleston, WV	2012807-04	Air	01/25/22 23:59	01/28/22 10:55
#10 Institute, WV	2012807-05	Air	01/25/22 23:59	01/28/22 10:55
#13 Institute, WV	2012807-06	Air	01/25/22 23:59	01/28/22 10:55
#14 Institute, WV	2012807-07	Air	01/25/22 23:59	01/28/22 10:55
#15 Institute, WV	2012807-08	Air	01/25/22 23:59	01/28/22 10:55

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: Guthrie WV Background Site **Lab ID:** 2012807-01 **Sampled:** 01/25/22 23:59
Pressure @ Receipt: 2.50 "Hg **Canister #:** 33531 **Received:** 01/28/22 10:55
Comments: **Analyzed:** 01/31/22 20:35

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0361	0.07		0.0261

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #0 South Charleston, WV **Lab ID:** 2012807-02 **Sampled:** 01/25/22 23:59
Pressure @ Receipt: 0.25 psig **Canister #:** 19648 **Received:** 01/28/22 10:55
Comments: Regulator S/N-15594 **Analyzed:** 01/31/22 21:37

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	ND	ND	U	0.0261

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U.S. Environmental Protection Agency, Region 3
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ATTN: Ms. Renu Chakrabarty
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FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #3 North Charleston, WV **Lab ID:** 2012807-03 **Sampled:** 01/25/22 23:59
Pressure @ Receipt: 0.6 psig **Canister #:** 18875 **Received:** 01/28/22 10:55
Comments: Regulator S/N-15585 **Analyzed:** 01/31/22 22:38

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0165	0.03	U	0.0261

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FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #4 North Charleston, WV
Pressure @ Receipt: 0.6 psig
Comments: Regulator S/N-15584

Lab ID: 2012807-04
Canister #: 19280

Sampled: 01/25/22 23:59
Received: 01/28/22 10:55
Analyzed: 01/31/22 23:39

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0121	0.02	U	0.0261

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ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #10 Institute, WV
Pressure @ Receipt: 0.45 psig
Comments: Regulator S/N-15589

Lab ID: 2012807-05
Canister #: 40457

Sampled: 01/25/22 23:59
Received: 01/28/22 10:55
Analyzed: 02/01/22 00:41

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0821	0.15		0.0261

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601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #13 Institute, WV **Lab ID:** 2012807-06 **Sampled:** 01/25/22 23:59
Pressure @ Receipt: 0.5 psig **Canister #:** 19656 **Received:** 01/28/22 10:55
Comments: Regulator S/N-15586 **Analyzed:** 02/01/22 02:44

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0375	0.07		0.0261

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601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #14 Institute, WV **Lab ID:** 2012807-07 **Sampled:** 01/25/22 23:59
Pressure @ Receipt: 0.5 psig **Canister #:** 40451 **Received:** 01/28/22 10:55
Comments: Regulator S/N-15597 **Analyzed:** 02/01/22 03:45

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0376	0.07		0.0261

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Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #15 Institute, WV
Pressure @ Receipt: 0.85 psig
Comments: Regulator S/N-15590

Lab ID: 2012807-08
Canister #: 39938

Sampled: 01/25/22 23:59
Received: 01/28/22 10:55
Analyzed: 02/01/22 04:46

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0505	0.09		0.0261

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U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
Batch B2A3110 - Summa Canister Prep						
Blank (B2A3110-BLK1)			Prepared & Analyzed: 01/31/22			
Ethylene oxide	ND	ppbv				U
Duplicate (B2A3110-DUP3)	**Source: 2012807-05**		Prepared: 01/25/22 Analyzed: 02/01/22			
Ethylene oxide	0.0797	ppbv	0.08	2.97	25	

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FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
Sequence 2201069					
Calibration Check (2201069-CCV1)			Prepared & Analyzed: 01/31/22		
Ethylene oxide	2.55	ppbv	5.6	30.00	

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Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
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FILE #: 0344.00
REPORTED: 02/07/22 14:24
SUBMITTED: 01/28/22
AQS SITE CODE:
SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Second Sampling Period: February 15-16, 2022

Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

March 22, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 02/18/22 11:39.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	Matrix	Sampled	Received
Guthrie Background Site	2021802-01	Air	02/16/22 12:06	02/18/22 11:39
#15 Institute, WV	2021802-02	Air	02/16/22 12:11	02/18/22 11:39
#13 Institute, WV	2021802-03	Air	02/16/22 11:14	02/18/22 11:39
#14 Institute, WV	2021802-04	Air	02/16/22 10:31	02/18/22 11:39
#3 North Charleston, WV	2021802-05	Air	02/16/22 13:03	02/18/22 11:39
#4 North Charleston, WV	2021802-06	Air	02/16/22 12:42	02/18/22 11:39
#10 Institute, WV	2021802-07	Air	02/16/22 11:36	02/18/22 11:39

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: Guthrie Background Site **Lab ID:** 2021802-01 **Sampled:** 02/16/22 12:06
Pressure @ Receipt: 4.5 "Hg **Canister #:** 41635 **Received:** 02/18/22 11:39
Comments: PR-58 **Analyzed:** 03/08/22 20:10

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0884	0.16		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #15 Institute, WV
Pressure @ Receipt: 0.30 "Hg
Comments: PR-87

Lab ID: 2021802-02
Canister #: 41558

Sampled: 02/16/22 12:11
Received: 02/18/22 11:39
Analyzed: 03/09/22 09:30

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	1.30	2.35		0.0261

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U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #13 Institute, WV
Pressure @ Receipt: 0.10 "Hg
Comments: PR-85

Lab ID: 2021802-03
Canister #: 41632

Sampled: 02/16/22 11:14
Received: 02/18/22 11:39
Analyzed: 03/09/22 10:30

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.204	0.37		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #14 Institute, WV
Pressure @ Receipt: 0.50 "Hg
Comments: PR-75

Lab ID: 2021802-04
Canister #: 41556

Sampled: 02/16/22 10:31
Received: 02/18/22 11:39
Analyzed: 03/09/22 11:31

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0958	0.17		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #3 North Charleston, WV
Pressure @ Receipt: 0.30 "Hg
Comments: PR-79

Lab ID: 2021802-05
Canister #: 18831

Sampled: 02/16/22 13:03
Received: 02/18/22 11:39
Analyzed: 03/09/22 12:32

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0227	0.04	U	0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #4 North Charleston, WV
Pressure @ Receipt: 0.6 "Hg
Comments: PR-86

Lab ID: 2021802-06
Canister #: 41569

Sampled: 02/16/22 12:42
Received: 02/18/22 11:39
Analyzed: 03/09/22 13:33

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0880	0.16		0.0261

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Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #10 Institute, WV
Pressure @ Receipt: 0.10 "Hg
Comments: PR-91

Lab ID: 2021802-07
Canister #: 41665

Sampled: 02/16/22 11:36
Received: 02/18/22 11:39
Analyzed: 03/09/22 14:34

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0996	0.18		0.0261

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U.S. Environmental Protection Agency, Region 3
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Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
Batch B2C0807 - Summa Canister Prep						
Blank (B2C0807-BLK1)			Prepared: 02/22/22 Analyzed: 03/08/22			
Ethylene oxide	ND	ppbv				U
Blank (B2C0807-BLK2)			Prepared: 02/22/22 Analyzed: 03/09/22			
Ethylene oxide	ND	ppbv				U
Duplicate (B2C0807-DUP1)	**Source: 2021802-01**		Prepared: 02/16/22 Analyzed: 03/08/22			
Ethylene oxide	0.0790	ppbv	0.09	11.2	25	

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FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
Sequence 2203030					
Calibration Check (2203030-CCV1)			Prepared & Analyzed: 03/08/22		
Ethylene oxide	2.43	ppbv	-3.0	30.00	
Calibration Check (2203030-CCV2)			Prepared: 03/08/22 Analyzed: 03/09/22		
Ethylene oxide	2.60	ppbv	3.8	30.00	

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FILE #: 0344.00
REPORTED: 03/22/22 11:51
SUBMITTED: 02/18/22
AQS SITE CODE:
SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Third Sampling Period: March 23-24, 2022

Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

May 11, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 03/29/22 11:24.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	Matrix	Sampled	Received
¥15 Institute, WV	2032918-01	Air	03/23/22 11:13	03/29/22 11:24
¥13 Institute, WV C2	2032918-03	Air	03/23/22 09:47	03/29/22 11:24
¥3 North Charleston, WV	2032918-04	Air	03/23/22 12:09	03/29/22 11:24
¥0 South Charleston, WV	2032918-05	Air	03/23/22 12:35	03/29/22 11:24
¥4 North Charleston, WV	2032918-06	Air	03/23/22 11:43	03/29/22 11:24
¥10 Institute, WV	2032918-07	Air	03/23/22 10:13	03/29/22 11:24
¥14 Institute, WV	2032918-08	Air	03/23/22 10:46	03/29/22 11:24
WV Eto	2032918-09	Air	03/24/22 01:55	03/29/22 11:24

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #15 Institute, WV
Pressure @ Receipt: 3.00 "Hg
Comments: PR-79

Lab ID: 2032918-01
Canister #: 41614

Sampled: 03/23/22 11:13
Received: 03/29/22 11:24
Analyzed: 04/14/22 08:08

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.447	0.81		0.0261

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CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #13 Institute, WV C2 **Lab ID:** 2032918-03 **Sampled:** 03/23/22 09:47
Pressure @ Receipt: 7.50 "Hg **Canister #:** 18876 **Received:** 03/29/22 11:24
Comments: PR-41, Col 2 **Analyzed:** 04/15/22 16:07

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.0714	0.13		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #3 North Charleston, WV
Pressure @ Receipt: 3.00 "Hg
Comments: PR-87

Lab ID: 2032918-04
Canister #: 33506

Sampled: 03/23/22 12:09
Received: 03/29/22 11:24
Analyzed: 04/14/22 09:09

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.155	0.28		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #0 South Charleston, WV
Pressure @ Receipt: 7.00 "Hg
Comments: PR-77

Lab ID: 2032918-05
Canister #: 19296

Sampled: 03/23/22 12:35
Received: 03/29/22 11:24
Analyzed: 04/15/22 18:10

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0800	0.14		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #4 North Charleston, WV
Pressure @ Receipt: 3.00 "Hg
Comments: PR-85

Lab ID: 2032918-06
Canister #: 18879

Sampled: 03/23/22 11:43
Received: 03/29/22 11:24
Analyzed: 04/15/22 19:11

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.0794	0.14		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #10 Institute, WV
Pressure @ Receipt: 2.50 "Hg
Comments: PR-91

Lab ID: 2032918-07
Canister #: 19661

Sampled: 03/23/22 10:13
Received: 03/29/22 11:24
Analyzed: 04/15/22 20:12

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.182	0.33		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #14 Institute, WV
Pressure @ Receipt: 3.50 "Hg
Comments: PR-75

Lab ID: 2032918-08
Canister #: 18878

Sampled: 03/23/22 10:46
Received: 03/29/22 11:24
Analyzed: 04/15/22 21:13

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.119	0.22		0.0261

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: WV Eto
Pressure @ Receipt: 2.50 "Hg
Comments: Regulator SN 15586

Lab ID: 2032918-09
Canister #: 19300

Sampled: 03/24/22 01:55
Received: 03/29/22 11:24
Analyzed: 04/15/22 22:14

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0321	0.06		0.0261

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U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
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ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
Batch B2D1306 - Summa Canister Prep						
Blank (B2D1306-BLK1)			Prepared & Analyzed: 04/13/22			
Ethylene oxide	ND	ppbv				U
Batch B2D1504 - Summa Canister Prep						
Blank (B2D1504-BLK1)			Prepared & Analyzed: 04/15/22			
Ethylene oxide	ND	ppbv				U
Duplicate (B2D1504-DUP1)	**Source: 2032918-02**		Prepared: 03/23/22 Analyzed: 04/15/22			
Ethylene oxide	ND	ppbv	ND		25	U
Duplicate (B2D1504-DUP2)	**Source: 2032918-03**		Prepared: 03/23/22 Analyzed: 04/15/22			
Ethylene oxide	0.0675	ppbv	0.07	5.62	25	

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FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
Sequence 2204035					
Calibration Check (2204035-CCV1)			Prepared & Analyzed: 04/13/22		
Ethylene oxide	2.19	ppbv	-9.2	30.00	
Sequence 2204039					
Calibration Check (2204039-CCV1)			Prepared & Analyzed: 04/15/22		
Ethylene oxide	2.21	ppbv	-8.3	30.00	

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FILE #: 0344.00
REPORTED: 05/11/22 14:59
SUBMITTED: 03/29/22
AQS SITE CODE:
SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Fourth Sampling Period: April 25-26*, 2022
*April 26-27 for #0 South Charleston, #3 South Charleston, #4 North Charleston

Eastern Research Group
601 Keystone Park Drive
Suite 700
Morrisville, NC 27560

June 22, 2022

Ms. Renu Chakrabarty
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
Project Name: WV EtO

Dear Ms. Renu Chakrabarty,

This report contains the analytical results for the sample(s) received under chain(s) of custody by Eastern Research Group on 04/29/22 10:11 through 05/27/22 10:49.

Values below the MDL for QC results in this report are recorded as ND, however the actual values are reported in the accompanying Excel report with a "U" flag (Under the detection limit). The actual values are reported in AQS.

This test is accredited under the 2016 TNI Standard for Environmental Laboratories (FL DOH Certification # E87673). All analyses were performed as described in the US EPA-approved QAPP, under the contract for UATMP, NATTS, CSATAM, PAMS and NMOC support (US EPA Contract No. EP-D-14-030). This cover page is an integral part of this report, and any exceptions or comments are noted on the last page.

Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

The issuance of the final Certificate of Analysis takes precedence over any previous Report. If you have any questions, please contact me at 919-468-7924.

Sincerely,

Julie Swift
Program Manager
julie.swift@erg.com

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

ANALYTICAL REPORT FOR SAMPLES

SampleName	LabNumber	Matrix	Sampled	Received
#0 South Charleston, WV	2042901-01	Air	04/27/22 14:13	04/29/22 10:11
#3 North Charleston, WV	2042901-02	Air	04/27/22 13:36	04/29/22 10:11
#15 Institute, WV	2042901-03	Air	04/26/22 12:41	04/29/22 10:11
Guthrie Background site	2042901-04	Air	04/26/22 11:58	04/29/22 10:11
#13 Institute, WV	2042901-05	Air	04/26/22 11:20	04/29/22 10:11
#14 Institute, WV	2042901-06	Air	04/26/22 10:59	04/29/22 10:11
#4 North Charleston, WV	2042901-07	Air	04/27/22 13:14	04/29/22 10:11
#10 Institute, WV	2042901-08	Air	04/26/22 12:36	04/29/22 10:11
#16 Buffalo, WV Background	2042901-09	Air	04/26/22 05:18	04/29/22 10:11
#3 North Charleston, WV	2052715-01	Air	05/25/22 07:02	05/27/22 10:49
#15 Institute, WV	2052715-02	Air	05/25/22 06:35	05/27/22 10:49
Guthrie Background site	2052715-03	Air	05/25/22 08:57	05/27/22 10:49
#16 Buffalo, WV Background	2052715-04	Air	05/25/22 05:30	05/27/22 10:49

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #0 South Charleston, WV **Lab ID:** 2042901-01 **Sampled:** 04/27/22 14:13
Pressure @ Receipt: 3.75 "Hg **Canister #:** 41642 **Received:** 04/29/22 10:11
Comments: PR-73 **Analyzed:** 05/18/22 23:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.146	0.26		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #3 North Charleston, WV
Pressure @ Receipt: 5.50 "Hg
Comments: PR-65

Lab ID: 2042901-02
Canister #: 41625

Sampled: 04/27/22 13:36
Received: 04/29/22 10:11
Analyzed: 05/19/22 00:36

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.221	0.40		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #15 Institute, WV
Pressure @ Receipt: 7.50 "Hg
Comments: PR-71

Lab ID: 2042901-03
Canister #: 41610

Sampled: 04/26/22 12:41
Received: 04/29/22 10:11
Analyzed: 05/11/22 08:30

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.183	0.33		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: Guthrie Background site
Pressure @ Receipt: 4.00 "Hg
Comments:

Lab ID: 2042901-04
Canister #: 41673

Sampled: 04/26/22 11:58
Received: 04/29/22 10:11
Analyzed: 05/11/22 09:33

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.271	0.49		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #13 Institute, WV
Pressure @ Receipt: 3.00 "Hg
Comments: PR-75

Lab ID: 2042901-05
Canister #: 41582

Sampled: 04/26/22 11:20
Received: 04/29/22 10:11
Analyzed: 05/11/22 10:36

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.124	0.22		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #14 Institute, WV
Pressure @ Receipt: 5.50 "Hg
Comments: PR-77

Lab ID: 2042901-06
Canister #: 41651

Sampled: 04/26/22 10:59
Received: 04/29/22 10:11
Analyzed: 05/19/22 01:36

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.514	0.93		0.0480

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #4 North Charleston, WV
Pressure @ Receipt: 1.75 "Hg
Comments: PR-79

Lab ID: 2042901-07
Canister #: 41670

Sampled: 04/27/22 13:14
Received: 04/29/22 10:11
Analyzed: 05/19/22 02:36

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.277	0.50		0.0480

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #10 Institute, WV
Pressure @ Receipt: 0.50 "Hg
Comments: PR-91

Lab ID: 2042901-08
Canister #: 41659

Sampled: 04/26/22 12:36
Received: 04/29/22 10:11
Analyzed: 05/19/22 03:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.674	1.22		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #16 Buffalo, WV Background
Pressure @ Receipt: 7.50 "Hg
Comments: PR-36

Lab ID: 2042901-09
Canister #: 41607

Sampled: 04/26/22 05:18
Received: 04/29/22 10:11
Analyzed: 05/19/22 04:36

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.365	0.66		0.0480

CERTIFICATE OF ANALYSIS

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601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #3 North Charleston, WV
Pressure @ Receipt: 1.30 "Hg
Comments: PR-79

Lab ID: 2052715-01
Canister #: 35135

Sampled: 05/25/22 07:02
Received: 05/27/22 10:49
Analyzed: 06/04/22 07:49

Air Toxics by EPA Compendium Method TO-15

	Results			MDL
Analyte	**ppbv**	**ug/m³**	**Flag**	**ppbv**
Ethylene oxide	0.184	0.33		0.0480

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U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
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ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #15 Institute, WV
Pressure @ Receipt: 2.0 "Hg
Comments: PR-73

Lab ID: 2052715-02
Canister #: 35122

Sampled: 05/25/22 06:35
Received: 05/27/22 10:49
Analyzed: 06/04/22 08:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	1.23	2.22		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: Guthrie Background site
Pressure @ Receipt: 4.00 "Hg
Comments:

Lab ID: 2052715-03
Canister #: 19641

Sampled: 05/25/22 08:57
Received: 05/27/22 10:49
Analyzed: 06/04/22 09:49

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.0733	0.13		0.0480

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Description: #16 Buffalo, WV Background **Lab ID:** 2052715-04 **Sampled:** 05/25/22 05:30
Pressure @ Receipt: 5.50 "Hg **Canister #:** 35104 **Received:** 05/27/22 10:49
Comments: PR-36 **Analyzed:** 06/07/22 21:47

Air Toxics by EPA Compendium Method TO-15

Analyte	Results ppbv	Results ug/m³	Flag	MDL ppbv
Ethylene oxide	0.169	0.31		0.0480

ERG

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control						
Batch B2E1010 - Summa Canister Prep						
Blank (B2E1010-BLK1)			Prepared: 05/06/22 Analyzed: 05/10/22			
Ethylene oxide	ND	ppbv				U
Batch B2E1807 - Summa Canister Prep						
Blank (B2E1807-BLK1)			Prepared & Analyzed: 05/18/22			
Ethylene oxide	ND	ppbv				U
Batch B2F0304 - Summa Canister Prep						
Blank (B2F0304-BLK1)			Prepared: 05/19/22 Analyzed: 06/03/22			
Ethylene oxide	ND	ppbv				U
Batch B2F0712 - Summa Canister Prep						
Blank (B2F0712-BLK1)			Prepared: 05/19/22 Analyzed: 06/07/22			
Ethylene oxide	ND	ppbv				U

CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3
601 57th Street, SE
Charleston, WV 25304
ATTN: Ms. Renu Chakrabarty
PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Analyte	Result	Units	% Difference	Limit (%)	Notes
Air Toxics by EPA Compendium Method TO-15 - Quality Control					
Sequence 2205026					
Calibration Check (2205026-CCV1)			Prepared & Analyzed: 05/10/22		
Ethylene oxide	2.38	ppbv	-1.4	30.00	
Sequence 2205048					
Calibration Check (2205048-CCV1)			Prepared & Analyzed: 05/18/22		
Ethylene oxide	2.97	ppbv	23.3	30.00	
Sequence 2206010					
Calibration Check (2206010-CCV1)			Prepared & Analyzed: 06/03/22		
Ethylene oxide	2.64	ppbv	9.5	30.00	
Sequence 2206021					
Calibration Check (2206021-CCV1)			Prepared & Analyzed: 06/07/22		
Ethylene oxide	2.44	ppbv	1.1	30.00	

CERTIFICATE OF ANALYSIS

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Charleston, WV 25304
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PHONE: (303) 414-1249 **FAX:**

FILE #: 0344.00
REPORTED: 06/22/22 14:19
SUBMITTED: 04/29/22 to 05/27/22
AQS SITE CODE:
SITE CODE: WV EtO

Notes and Definitions

U	Under Detection Limit
ND	Analyte NOT DETECTED
NR	Not Reported
MDL	Method Detection Limit
RPD	Relative Percent Difference

Note: This test is accredited under the 2016 TNI Standard; however the following analytes are not accredited: acetylene, bromodichloroethane, dichlorotetrafluoromethane, ethyl tert butyl ether, n-octane, tert amyl methyl ether, trichlorofluoroethane, and bromochloromethane.

Appendix D Source Characterization Tables

Institute Area: EtO Source Descriptions

Model ID	Description	Source Type
221A	Polyox Source	Point
230M	Polyox Source	Point
230L	Polyox Source	Point
230K	Polyox Source	Point
230O	Polyox Source	Point
230HH	Polyox Source	Point
POLYVOL1	Polyox-Fugitives	Volume
BL8389A1	Polyox-Fugitives	Volume
BL8389A2	Polyox-Fugitives	Volume
BL8389B1	Polyox-Fugitives	Volume
BL8389B2	Polyox-Fugitives	Volume
EODISTFL	EO Distribution Source	Point
Rail1	EO Distribution Fugitive-Railcar Unloading	Volume
Rail2	EO Distribution Fugitive-Railcar Unloading	Volume
Rail3	EO Distribution Fugitive-Railcar Unloading	Volume
Rail4	EO Distribution Fugitive-Railcar Unloading	Volume
Rail5	EO Distribution Fugitive-Railcar Unloading	Volume
PUMP1	EO Distribution Fugitive-Pumps/Diked Area	Volume
PUMP2	EO Distribution Fugitive-Pumps/Diked Area	Volume
PUMP3	EO Distribution Fugitive-Pumps/Diked Area	Volume
TANKS1	EO Distribution Fugitive-Tanks Area	Volume
TANKS2	EO Distribution Fugitive-Tanks Area	Volume
FLAREFU1	EO Distribution Fugitive-Flare Area	Volume
FLAREFU2	EO Distribution Fugitive-Flare Area	Volume
R251	EO Distribution Fugitive-Area Near Rt. 25	Volume
R252	EO Distribution Fugitive-Area Near Rt. 25	Volume

South Charleston Area: EtO Source Descriptions

Model ID	Description	Source Type
E704	Union Carbide-Oxide Adducts	Point
E705	Union Carbide-Oxide Adducts	Point
E706	Union Carbide-Oxide Adducts	Point
E707	Union Carbide-Oxide Adducts	Point
E708	Union Carbide-Oxide Adducts	Point
T9120	Union Carbide-Oxide Adducts	Point
T9121	Union Carbide-Oxide Adducts	Point
T9128	Union Carbide-Oxide Adducts	Point
T9129	Union Carbide-Oxide Adducts	Point
T9151	Union Carbide-Oxide Adducts	Point
T9180	Union Carbide-Oxide Adducts	Point
T9181	Union Carbide-Oxide Adducts	Point
T9182	Union Carbide-Oxide Adducts	Point
T9186	Union Carbide-Oxide Adducts	Point
T9187	Union Carbide-Oxide Adducts	Point
T9223	Union Carbide-Oxide Adducts	Point
T9228	Union Carbide-Oxide Adducts	Point
T9502	Union Carbide-Oxide Adducts	Point
T9504	Union Carbide-Oxide Adducts	Point
T9505	Union Carbide-Oxide Adducts	Point
T9507	Union Carbide-Oxide Adducts	Point
T9509	Union Carbide-Oxide Adducts	Point
T9510	Union Carbide-Oxide Adducts	Point
T9511	Union Carbide-Oxide Adducts	Point
T9512	Union Carbide-Oxide Adducts	Point
T9553	Union Carbide-Oxide Adducts	Point
T9554	Union Carbide-Oxide Adducts	Point
T9555	Union Carbide-Oxide Adducts	Point
T9556	Union Carbide-Oxide Adducts	Point
T9562	Union Carbide-Oxide Adducts	Point
T9563	Union Carbide-Oxide Adducts	Point
T9565	Union Carbide-Oxide Adducts	Point
T9568	Union Carbide-Oxide Adducts	Point
T9569	Union Carbide-Oxide Adducts	Point
T9612	Union Carbide-Oxide Adducts	Point
T9614	Union Carbide-Oxide Adducts	Point
T9615	Union Carbide-Oxide Adducts	Point
T9616	Union Carbide-Oxide Adducts	Point
T9617	Union Carbide-Oxide Adducts	Point
T9619	Union Carbide-Oxide Adducts	Point
T9622	Union Carbide-Oxide Adducts	Point
T9624	Union Carbide-Oxide Adducts	Point
T9625	Union Carbide-Oxide Adducts	Point
T9627	Union Carbide-Oxide Adducts	Point

South Charleston Area: EtO Source Descriptions (Continued)

Model ID	Description	Source Type
T9629	Union Carbide-Oxide Adducts	Point
T9632	Union Carbide-Oxide Adducts	Point
T9634	Union Carbide-Oxide Adducts	Point
T9635	Union Carbide-Oxide Adducts	Point
T9637	Union Carbide-Oxide Adducts	Point
T9640	Union Carbide-Oxide Adducts	Point
T9643	Union Carbide-Oxide Adducts	Point
T9645	Union Carbide-Oxide Adducts	Point
T9646	Union Carbide-Oxide Adducts	Point
T9649	Union Carbide-Oxide Adducts	Point
T9734	Union Carbide-Oxide Adducts	Point
T9736	Union Carbide-Oxide Adducts	Point
T9738	Union Carbide-Oxide Adducts	Point
T9749	Union Carbide-Oxide Adducts	Point
T9798	Union Carbide-Oxide Adducts	Point
T9812	Union Carbide-Oxide Adducts	Point
T9814	Union Carbide-Oxide Adducts	Point
T9815	Union Carbide-Oxide Adducts	Point
T9822	Union Carbide-Oxide Adducts	Point
T9824	Union Carbide-Oxide Adducts	Point
T9825	Union Carbide-Oxide Adducts	Point
L001TT1	Union Carbide-Oxide Adducts	Point
L001TT2	Union Carbide-Oxide Adducts	Point
L001TT3	Union Carbide-Oxide Adducts	Point
L001TT4	Union Carbide-Oxide Adducts	Point
L001TT5	Union Carbide-Oxide Adducts	Point
L001TT6	Union Carbide-Oxide Adducts	Point
OAHR2	Oxide Adducts Fugitive-EO Header and Reactor 2	Volume
OAR451	Oxide Adducts Fugitive-Reactors 4 and 5	Volume
OAR452	Oxide Adducts Fugitive-Reactors 4 and 5	Volume
OAR6	Oxide Adducts Fugitive-Reactor 6	Volume
OAR7	Oxide Adducts Fugitive-Reactor 7	Volume
OAWTIL	Oxide Adducts Fugitive-Western Tip of Island	Line
OALIB1	Oxide Adducts Fugitive-Lower Island Bridge	Volume
OALIB2	Oxide Adducts Fugitive-Lower Island Bridge	Volume
OALIB3	Oxide Adducts Fugitive-Lower Island Bridge	Volume
E10813	Triton-Dow/UCC	Point
L001	Triton-Dow/UCC	Point
L002	Triton-Dow/UCC	Point
L003	Triton-Dow/UCC	Point
L004	Triton-Dow/UCC	Point
T8313	Triton-Dow/UCC	Point
T8314	Triton-Dow/UCC	Point
T8320	Triton-Dow/UCC	Point
T8322	Triton-Dow/UCC	Point

South Charleston Area: EtO Source Descriptions (Continued)

Model ID	Description	Source Type
T8323	Triton-Dow/UCC	Point
T8331	Triton-Dow/UCC	Point
T8334	Triton-Dow/UCC	Point
T8343	Triton-Dow/UCC	Point
T8344	Triton-Dow/UCC	Point
T8360	Triton-Dow/UCC	Point
T8361	Triton-Dow/UCC	Point
T8363	Triton-Dow/UCC	Point
T8364	Triton-Dow/UCC	Point
T8373	Triton-Dow/UCC	Point
T8380	Triton-Dow/UCC	Point
T8381	Triton-Dow/UCC	Point
T8383	Triton-Dow/UCC	Point
T8390	Triton-Dow/UCC	Point
T8391	Triton-Dow/UCC	Point
T8392	Triton-Dow/UCC	Point
T8393	Triton-Dow/UCC	Point
T8420	Triton-Dow/UCC	Point
THF	Triton-Header Fugitives	Volume
TRF	Trition-Reactor Fugitives	Volume
TFNC	Trition-Fugitives Near Covestro	Volume
CEO03F1	Covestro-EO03 Fugitives	Volume
CEO03F2	Covestro-EO03 Fugitives	Volume
CPIVF1	Covestro-Phase IV Fugitives	Volume
CPIVF2	Covestro-Phase IV Fugitives	Volume
1RX	Covestro-Point Source	Horizontal Point
2RX	Covestro-Point Source	Horizontal Point
3RX	Covestro-Point Source	Horizontal Point
789RX	Covestro-Point Source	Point
CHMIX	Chemical Mixing Process Area	Area

Institute Area: EtO Point Source Locations and Stack Paramaters

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
221A	431513.49	4248834.41	181.53	35.66	866.48	4.82	0.25
230M	432213.63	4248385.61	181.64	4.57	318.15	16.61	0.04
230L	432200.85	4248393.16	181.74	4.57	318.15	22.82	0.04
230K	432191.22	4248390.80	181.63	4.57	318.15	51.50	0.04
230O	432192.76	4248376.80	181.62	27.43	318.15	2.62	0.20
230HH	432173.00	4248384.18	181.56	0.91	0.00	4.57	0.02
EODISTFL	431659.87	4248946.05	181.60	27.43	866.48	8.69	0.10

Institute Area: EtO Volume Source Locations and Paramaters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
	East (m)	North (m)				
POLYVOL1	432175.00	4248394.00	181.60	4.57	3.02	4.25
BL8389A1	432195.00	4248382.00	181.66	13.72	3.99	2.13
BL8389A2	432191.00	4248374.00	181.66	13.72	3.99	2.13
BL8389B1	432195.00	4248382.00	181.66	22.86	3.99	2.13
BL8389B2	432191.00	4248374.00	181.66	22.86	3.99	2.13
Rail1	431609.00	4248856.00	182.33	5.62	4.77	0.35
Rail2	431616.00	4248851.00	182.33	5.62	4.77	0.35
Rail3	431624.00	4248847.00	182.33	5.62	4.77	0.35
Rail4	431632.00	4248843.00	182.33	5.62	4.77	0.35
Rail5	431640.00	4248837.00	182.33	5.62	4.77	0.35
PUMP1	431612.00	4248893.00	182.55	2.44	5.58	0.57
PUMP2	431620.00	4248889.00	182.55	2.44	5.58	0.57
PUMP3	431630.00	4248884.00	182.55	2.44	5.58	0.57
TANKS1	431587.00	4248907.00	182.76	5.49	5.79	0.28
TANKS2	431599.00	4248903.00	182.76	5.49	5.79	0.28
FLAREFU1	431658.00	4248944.00	182.87	2.44	3.69	0.28
FLAREFU2	431653.00	4248936.00	182.87	2.44	3.69	0.28
R251	431873.00	4249163.00	183.66	1.07	1.80	0.35
R252	431877.00	4249161.00	183.66	1.07	1.80	0.35

South Charleston Area: EtO Point Source Locations and Stack Paramaters

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature[1] (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
E704	439727.09	4247132.14	181.84	9.14	353.15	65.62	0.02
E705	439676.24	4247142.39	182.66	9.14	353.15	65.62	0.02
E706	439676.24	4247142.39	182.66	9.14	353.15	65.62	0.02
E707	439711.39	4247111.61	184.05	10.97	353.15	49.17	0.02
E708	439675.59	4247090.69	184.41	12.19	353.15	18.53	0.04
T9120	439685.84	4247106.04	184.07	6.71	0.00	0.10	0.20
T9121	439685.84	4247106.04	184.07	6.71	0.00	0.10	0.20
T9128	439723.41	4247107.53	183.89	7.32	0.00	0.10	0.15
T9129	439723.41	4247107.53	183.89	7.32	0.00	0.10	0.20
T9151	439694.59	4247109.08	184.05	5.49	0.00	0.08	0.10
T9180	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9181	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9182	439706.89	4247106.10	184.25	7.62	0.00	0.10	0.20
T9186	439666.54	4247084.54	184.30	18.90	0.00	0.10	0.20
T9187	439666.54	4247084.54	184.30	18.90	0.00	0.10	0.20
T9223	439665.65	4247093.87	184.07	6.40	0.00	0.10	0.20
T9228	439694.38	4247104.31	184.13	5.79	0.00	0.10	0.20
T9502	439720.77	4247128.08	183.17	13.72	0.00	0.10	0.20
T9504	439679.63	4247140.93	183.01	13.72	0.00	0.10	0.20
T9505	439678.63	4247135.61	183.28	13.72	0.00	0.10	0.20
T9507	438886.77	4136148.36	183.29	5.49	0.00	0.10	0.20
T9509	439638.21	4247104.28	183.92	9.14	0.00	0.15	0.20
T9510	439647.54	4247102.44	183.85	9.14	0.00	0.01	0.51
T9511	439649.27	4247111.19	183.78	9.14	0.00	0.33	0.10
T9512	439655.84	4247113.36	183.74	9.14	0.00	0.40	0.10
T9553	439767.24	4247080.46	183.94	18.90	0.00	0.06	0.25
T9554	439773.78	4247078.75	183.94	18.90	0.00	0.10	0.20
T9555	439773.78	4247078.75	183.94	18.90	0.00	0.15	0.20
T9556	439758.90	4247075.19	183.97	18.90	0.00	0.11	0.20
T9562	439747.35	4247084.49	184.17	9.75	0.00	0.02	0.51
T9563	439744.91	4247073.97	184.24	9.75	0.00	0.02	0.51
T9565	439773.66	4247051.12	184.38	6.71	0.00	0.08	0.25
T9568	439775.38	4247058.65	184.32	6.71	0.00	0.03	0.41
T9569	439794.99	4247053.62	184.22	7.62	0.00	0.04	0.20
T9612	439717.98	4247129.21	183.23	13.41	0.00	0.10	0.20
T9614	439684.09	4247141.00	182.55	13.72	0.00	0.04	0.20
T9615	439681.94	4247134.80	183.22	13.72	0.00	0.10	0.20
T9616	439666.54	4247084.54	184.30	18.90	0.00	0.14	0.20
T9617	439717.79	4247104.02	184.24	18.90	0.00	0.11	0.15
T9619	439654.97	4247137.11	183.34	19.51	0.00	0.13	0.20
T9622	439717.98	4247129.21	183.23	13.41	0.00	0.10	0.20

South Charleston Area: EtO Point Source Locations and Stack Paramaters (Continued)

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature[1] (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
T9624	439684.09	4247141.00	182.55	13.72	0.00	0.11	0.20
T9625	439681.94	4247134.80	183.22	13.72	0.00	0.10	0.20
T9627	439717.79	4247104.02	184.24	18.90	0.00	0.10	0.20
T9629	439654.97	4247137.11	183.34	19.51	0.00	0.15	0.20
T9632	439805.78	4246976.75	184.65	6.10	0.00	0.27	0.10
T9634	439779.53	4247018.78	184.65	6.40	0.00	0.22	0.10
T9635	439775.43	4247007.05	184.61	6.40	0.00	0.30	0.10
T9637	439801.57	4247045.47	184.47	7.62	0.00	0.12	0.15
T9640	439800.09	4247045.48	184.46	7.62	0.00	0.21	0.15
T9643	439793.46	4247046.86	184.31	7.62	0.00	0.09	0.15
T9645	439793.46	4247046.86	184.31	7.62	0.00	0.12	0.15
T9646	439788.63	4247055.11	184.21	7.62	0.00	0.24	0.10
T9649	439780.64	4247049.73	184.31	7.62	0.00	0.20	0.10
T9734	439644.66	4247125.21	183.55	5.49	0.00	0.60	0.15
T9736	439648.58	4247124.62	183.58	5.49	0.00	0.58	0.15
T9738	439652.16	4247123.38	183.57	4.88	0.00	0.02	0.51
T9749	439718.70	4247108.45	184.03	7.92	0.00	0.19	0.15
T9798	439726.21	4247119.94	183.28	6.40	0.00	0.10	0.20
T9812	439704.64	4247132.97	182.55	15.24	0.00	0.10	0.20
T9814	439697.25	4247137.46	181.85	13.72	0.00	0.10	0.20
T9815	439696.16	4247131.92	183.06	15.24	0.00	0.10	0.20
T9822	439704.64	4247132.97	182.55	15.24	0.00	0.10	0.20
T9824	439697.25	4247137.46	181.85	13.72	0.00	0.10	0.20
T9825	439696.16	4247131.92	183.06	15.24	0.00	0.10	0.20
L001TT1	439641.71	4247081.62	184.31	3.66	0.00	0.02	0.51
L001TT2	439662.90	4247076.13	184.44	3.66	0.00	0.02	0.51
L001TT3	439673.90	4247075.16	184.49	3.66	0.00	0.02	0.51
L001TT4	439683.39	4247070.65	184.58	3.66	0.00	0.02	0.51
L001TT5	439694.48	4247070.02	184.47	3.66	0.00	0.02	0.51
L001TT6	439706.07	4247066.71	184.51	3.66	0.00	0.02	0.51
E10813	440122.41	4247192.78	181.87	22.86	313.15	0.40	0.21
L001	440069.21	4247170.09	181.81	3.66	333.15	0.02	0.51
L002	440087.01	4247142.99	181.97	8.23	333.15	0.04	0.20
L003	440147.90	4247214.00	181.71	3.66	333.15	0.02	0.51
L004	440086.08	4247182.17	181.83	3.66	333.15	0.02	0.51
T8313	440078.36	4247189.77	182.04	14.02	0.00	0.71	0.08
T8314	440074.96	4247190.80	181.96	14.02	0.00	0.71	0.08
T8320	440095.40	4247190.53	181.87	10.67	0.00	0.71	0.08
T8322	440084.58	4247192.95	181.84	7.16	0.00	0.71	0.08
T8323	440079.34	4247193.32	181.94	15.54	0.00	0.18	0.15
T8331	440111.86	4247195.07	181.87	6.71	0.00	0.71	0.08
T8334	440076.49	4247197.78	181.80	15.54	0.00	0.18	0.15

South Charleston Area: EtO Point Source Locations and Stack Paramaters (Continued)

Model ID	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Temperature[1] (K)	Stack Exit Velocity (m/s)	Stack Diameter (m)
	East (m)	North (m)					
T8343	440081.87	4247204.51	181.89	15.54	0.00	0.10	0.20
T8344	440078.47	4247205.20	181.86	15.54	0.00	0.18	0.15
T8360	440099.72	4247208.15	181.85	5.74	0.00	0.41	0.10
T8361	440094.40	4247209.41	181.84	5.74	0.00	0.71	0.08
T8363	440083.59	4247211.60	181.93	15.54	0.00	0.10	0.20
T8364	440080.10	4247212.40	181.92	15.54	0.00	0.10	0.20
T8373	440083.90	4247218.58	181.80	8.99	0.00	0.18	0.15
T8380	440101.89	4247217.78	181.91	10.67	0.00	1.53	0.05
T8381	440097.27	4247218.93	181.85	10.67	0.00	1.53	0.05
T8383	440084.98	4247222.57	181.77	8.63	0.00	0.41	0.10
T8390	440103.06	4247222.21	181.85	10.67	0.00	0.71	0.08
T8391	440098.44	4247223.80	181.79	10.67	0.00	0.71	0.08
T8392	440092.60	4247225.07	181.76	10.57	0.00	0.41	0.10
T8393	440085.97	4247226.56	181.77	9.14	0.00	0.71	0.08
T8420	440130.27	4247192.94	181.87	22.86	0.00	2.62	0.04
1RX[2]	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX[2]	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX[2]	439938.84	4247272.37	180.07	14.63	313.15	10.00	0.08
789RX	440278.83	4247093.29	181.75	12.80	313.15	10.00	0.25

[1]Per the AERMOD User's Guide, a stack temperature of "0 K", is input for ambient temperature.

[2]Horizontal Point Source

South Charleston Area: EtO Area Source Locations and Stack Paramaters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Area Length (m)
	East (m)	North (m)			
CHMIX	440262.00	4246838.00	176.33	3.05	10.00

South Charleston Area: Line Source Endpoint Coordinates and Elevation

Model ID	Line Endpoint #1 UTM Coordinates		Line Endpoint #2 UTM Coordinates		Elevation (m)
	East (m)	North (m)	East (m)	North (m)	
OAWTIL	439166.00	4247407.00	439631.00	4247325.00	181.07

South Charleston Area: Additional Line Source Paramaters

Model ID	Release Height (m)	Source Width (m)	Initial Vertical Dimension (m)
OAWTIL	0.00	3.47	3.66

South Charleston Area: EtO Volume Source Locations and Stack Paramaters

Model ID	UTM Coordinates		Elevation (m)	Release Height (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)
	East (m)	North (m)				
OAHR2	439731.00	4247128.00	182.63	4.88	2.87	1.98
OAR451	439674.00	4247142.00	183.00	8.53	2.13	0.28
OAR452	439672.00	4247137.00	183.00	8.53	2.13	0.28
OAR6	439676.00	4247091.00	184.41	7.62	0.97	2.13
OAR7	439713.00	4247110.00	184.27	7.77	0.74	2.20
OALIB1	439762.00	4247237.00	176.33	2.44	2.63	0.85
OALIB2	439767.00	4247235.00	176.33	2.44	2.63	0.85
OALIB3	439773.00	4247233.00	176.33	2.44	2.63	0.85
THF	440132.00	4247228.00	180.81	1.83	1.17	0.57
TRF	440122.00	4247181.00	181.79	9.14	1.91	1.42
TFNC	439987.00	4247262.00	180.53	1.22	0.74	0.28
CEO03F1	439941.00	4247253.00	181.83	10.06	13.02	2.41
CEO03F2	439935.00	4247225.00	181.83	10.06	13.02	2.41
CPIVF1	440271.00	4247100.00	181.78	6.10	11.16	2.13
CPIVF2	440293.00	4247096.00	181.78	6.10	11.16	2.13

Institute Area: Point Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
221A	4.5359E-03	4.5359E-03	4.5359E-03	0.0000E+00
230M	2.5389E-03	2.6434E-03	2.7468E-03	0.0000E+00
230L	1.1191E-02	1.2436E-02	1.2890E-02	0.0000E+00
230K	2.6593E-03	2.4507E-03	2.6699E-03	0.0000E+00
230O	3.2759E-04	3.5279E-04	2.7543E-03	0.0000E+00
230HH	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
EODISTFL	2.9490E-03	4.6855E-03	5.1856E-03	4.8949E-03

Institute Area: Volume Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
POLYVOL1	1.0338E-03	8.6939E-04	6.9299E-04	1.9908E-04
BL8389A1	3.1487E-05	3.1499E-05	3.1499E-05	3.4476E-05
BL8389A2	3.1487E-05	3.1499E-05	3.1499E-05	3.4476E-05
BL8389B1	1.0966E-04	1.0710E-04	1.0710E-04	1.0996E-04
BL8389B2	1.0966E-04	1.0710E-04	1.0710E-04	1.0996E-04
Rail1	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail2	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail3	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail4	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
Rail5	3.9555E-04	3.9555E-04	3.9555E-04	3.9555E-04
PUMP1	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
PUMP2	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
PUMP3	1.0703E-03	1.0703E-03	1.0703E-03	1.0703E-03
TANKS1	9.0102E-04	9.0102E-04	9.0102E-04	9.0102E-04
TANKS2	9.0102E-04	9.0102E-04	9.0102E-04	9.0102E-04
FLAREFU1	2.3689E-04	2.3689E-04	2.3689E-04	2.3689E-04
FLAREFU2	2.3689E-04	2.3689E-04	2.3689E-04	2.3689E-04
R251	5.7806E-05	5.7806E-05	5.7806E-05	5.7806E-05
R252	5.7806E-05	5.7806E-05	5.7806E-05	5.7806E-05

South Charleston Area: Point Source EtO Emission Rates

Model ID	EtO Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
E704	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
E705	0.0000E+00	0.0000E+00	6.4049E-03	0.0000E+00
E706	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
E707	0.0000E+00	3.4124E-03	0.0000E+00	0.0000E+00
E708	0.0000E+00	3.9374E-03	3.3599E-03	0.0000E+00
T9120	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9121	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9128	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9129	1.6952E-06	1.6952E-06	0.0000E+00	0.0000E+00
T9151	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
T9180	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9181	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9182	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9186	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9187	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9223	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9228	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9502	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9504	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9505	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9507	0.0000E+00	1.6952E-06	1.6952E-06	0.0000E+00
T9509	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9510	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9511	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9512	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9553	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9554	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9555	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9556	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9562	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9563	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9565	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9568	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9569	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9612	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9614	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9615	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9616	1.6952E-06	0.0000E+00	0.0000E+00	1.6952E-06
T9617	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9619	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9622	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9624	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06

South Charleston Area: Point Source EtO Emission Rates (Continued)

Model ID	EtO Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
T9625	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9627	0.0000E+00	1.6952E-06	1.6952E-06	1.6952E-06
T9629	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9632	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9634	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9635	1.6952E-06	1.6952E-06	0.0000E+00	0.0000E+00
T9637	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9640	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9643	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
T9645	0.0000E+00	1.6952E-06	1.6952E-06	1.6952E-06
T9646	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9649	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9734	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9736	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9738	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9749	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9798	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9812	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9814	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9815	1.6952E-06	1.6952E-06	1.6952E-06	0.0000E+00
T9822	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9824	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
T9825	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT1	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT2	1.6952E-06	1.6952E-06	1.6952E-06	1.6952E-06
L001TT3	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT4	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT5	0.0000E+00	0.0000E+00	1.6952E-06	1.6952E-06
L001TT6	0.0000E+00	0.0000E+00	0.0000E+00	1.6952E-06
E10813	4.7249E-04	8.3999E-04	6.2999E-04	1.7325E-03
L001	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L002	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L003	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
L004	2.0799E-05	2.0799E-05	2.0799E-05	2.0799E-05
T8313	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8314	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8320	1.1606E-05	1.1606E-05	1.1606E-05	0.0000E+00
T8322	1.1606E-05	1.1606E-05	0.0000E+00	0.0000E+00
T8323	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8331	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8334	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8343	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8344	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8360	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05

South Charleston Area: Point Source EtO Emission Rates (Continued)

Model ID	EtO Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
T8361	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8363	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8364	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8373	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8380	1.1606E-05	0.0000E+00	1.1606E-05	0.0000E+00
T8381	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8383	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
T8390	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8391	1.1606E-05	0.0000E+00	0.0000E+00	1.1606E-05
T8392	1.1606E-05	1.1606E-05	0.0000E+00	1.1606E-05
T8393	1.1606E-05	0.0000E+00	1.1606E-05	1.1606E-05
T8420	1.1606E-05	1.1606E-05	1.1606E-05	1.1606E-05
1RX[1]	0.0000E+00	0.0000E+00	5.2415E-05	0.0000E+00
2RX[1]	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3RX[1]	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
789RX	5.6699E-04	8.8199E-04	5.7707E-04	5.7959E-04

[1]Horizontal Point Source

South Charleston Area: Area Source EtO Emission Rates

Model ID	EtO Area Emission Rate [g/(s - m^2)]			
	Janaury 2022	Febraury 2022	March 2022	April 2022
CHMIX	6.8851E-07	6.8851E-07	6.8851E-07	6.8851E-07

South Charleston Area: Line Source EtO Emission Rates

Model ID	EtO Line Source Emission Rate [g/(s - m^2)]			
	Janaury 2022	Febraury 2022	March 2022	April 2022
OAWTIL	1.4437E-07	1.4437E-07	1.4437E-07	1.4437E-07

South Charleston Area: Volume Source EtO Emission Rates

Model ID	EtO Volume Emission Rate (g/s)			
	Janaury 2022	Febraury 2022	March 2022	April 2022
OAHR2	4.0192E-04	4.0193E-04	4.0193E-04	4.0192E-04
OAR451	3.1945E-04	3.1945E-04	3.1945E-04	3.1945E-04
OAR452	3.1945E-04	3.1945E-04	3.1945E-04	3.1945E-04
OAR6	1.2924E-04	1.2924E-04	1.2924E-04	1.2924E-04
OAR7	5.6660E-05	5.6660E-05	5.6660E-05	5.6660E-05
OALIB1	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
OALIB2	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
OALIB3	4.7240E-05	4.7240E-05	4.7240E-05	4.7240E-05
THF	3.6721E-05	3.6721E-05	3.6721E-05	3.6721E-05
TRF	9.5675E-05	9.5675E-05	9.5675E-05	9.5675E-05
TFNC	4.4753E-05	4.4753E-05	4.4753E-05	4.4753E-05
CEO03F1	2.5830E-04	2.5830E-04	2.5830E-04	2.5830E-04
CEO03F2	2.5830E-04	2.5830E-04	2.5830E-04	2.5830E-04
CPIVF1	4.4099E-04	4.4099E-04	4.4099E-04	4.4099E-04
CPIVF2	4.4099E-04	4.4099E-04	4.4099E-04	4.4099E-04

Appendix E AERMOD Source Files

January Monitoring Event AERMOD Source Input: Institute

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**  WVDAQ - Monitoring Event 1 **
**  2022 Event 1 Emissions  **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US  LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
   LOCATION 221A POINT 431513.4933 4248834.413 181.53
   LOCATION 230M POINT 432213.6261 4248385.614 181.64
   LOCATION 230L POINT 432200.8493 4248393.156 181.74
   LOCATION 230K POINT 432191.221 4248390.796 181.63
   LOCATION 230O POINT 432192.7629 4248376.801 181.62
   LOCATION 230HH POINT 432172.9967 4248384.18 181.56
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
   SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
   SRCPARAM 230M 2.5389E-03 4.572 318.15 16.608552 0.040894
   SRCPARAM 230L 1.1191E-02 4.572 318.15 22.823424 0.040894
   SRCPARAM 230K 2.6593E-03 4.572 318.15 51.499008 0.040894
   SRCPARAM 230O 3.2759E-04 27.432 318.15 2.618232 0.200406
   SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH       7.00    0.00    0.00    0.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 230HH       7.00    7.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      48.55    0.00    0.00    0.00   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      27.75   23.66   20.22   22.87   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      39.34    0.00    0.00    0.00   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      30.99   30.16   30.38   32.18   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH      12.04    0.00    0.00    0.00   27.75   28.88
SO XBADJ    230HH      29.13   28.50   27.00   24.68    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH     -51.38  -52.20  -51.44  -51.61  -58.08  -59.77
SO XBADJ    230HH     -59.64  -57.69  -54.00  -48.66    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH     -24.39    0.00    0.00    0.00  -11.48   -3.80
SO YBADJ    230HH       4.00   11.68   19.00   25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH      13.99    8.06    1.20   -6.27   11.48    3.80
SO YBADJ    230HH      -4.00  -11.68  -19.00  -25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
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SO	BUILDHGT	230O	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230O	25.90	25.90	0.00	0.00	0.00	0.00
SO	BUILDHGT	230O	0.00	0.00	7.00	7.00	25.90	25.90
SO	BUILDHGT	230O	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230O	25.90	25.90	0.00	0.00	0.00	0.00
SO	BUILDHGT	230O	0.00	0.00	7.00	7.00	25.90	25.90
SO	BUILDWID	230O	23.99	20.24	15.88	18.76	22.09	24.28
SO	BUILDWID	230O	24.28	24.28	0.00	0.00	0.00	0.00
SO	BUILDWID	230O	0.00	0.00	34.85	34.60	24.28	24.28
SO	BUILDWID	230O	23.99	20.24	15.88	18.76	22.09	24.28
SO	BUILDWID	230O	24.28	24.28	0.00	0.00	0.00	0.00
SO	BUILDWID	230O	0.00	0.00	45.30	48.35	24.28	24.28
SO	BUILDLEN	230O	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230O	30.50	29.19	0.00	0.00	0.00	0.00
SO	BUILDLEN	230O	0.00	0.00	29.21	31.10	27.75	28.00
SO	BUILDLEN	230O	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230O	30.50	29.19	0.00	0.00	0.00	0.00
SO	BUILDLEN	230O	0.00	0.00	49.61	49.21	27.75	28.00
SO	XBADJ	230O	16.45	19.40	19.95	19.05	17.58	15.56
SO	XBADJ	230O	13.08	10.19	0.00	0.00	0.00	0.00
SO	XBADJ	230O	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO	XBADJ	230O	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO	XBADJ	230O	-43.58	-39.39	0.00	0.00	0.00	0.00
SO	XBADJ	230O	0.00	0.00	0.76	5.03	9.16	13.00
SO	YBADJ	230O	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO	YBADJ	230O	18.36	23.03	0.00	0.00	0.00	0.00
SO	YBADJ	230O	0.00	0.00	18.57	12.53	24.79	20.50
SO	YBADJ	230O	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO	YBADJ	230O	-18.36	-23.03	0.00	0.00	0.00	0.00
SO	YBADJ	230O	0.00	0.00	-23.79	-19.40	-24.79	-20.50

SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230K	2.84	6.58	8.33	8.97	9.34	9.43
SO	XBADJ	230K	9.23	8.75	8.00	7.01	5.81	4.43
SO	XBADJ	230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO	XBADJ	230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO	XBADJ	230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO	XBADJ	230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO	YBADJ	230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO	YBADJ	230K	4.86	9.07	13.00	16.54	19.57	21.58
SO	YBADJ	230K	23.40	24.50	24.87	24.48	23.34	21.50

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SO YBADJ     230K       19.00   15.93   12.37    8.11    3.86   -0.51
SO YBADJ     230K       -4.86   -9.07  -13.00  -16.54  -19.57  -21.58
SO YBADJ     230K      -23.40  -24.50  -24.87  -24.48  -23.34  -21.50


SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230L       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDWID 230L       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230L       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230L       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDWID 230L       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230L       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230L       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDLEN 230L       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230L       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230L       18.76   22.09   24.75   26.65   27.75   28.00
SO BUILDLEN 230L       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230L       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230L       18.76   22.09   24.75   26.65   27.75   28.00
SO XBADJ     230L       -1.68    0.69    1.23    0.89    0.52    0.13
SO XBADJ     230L       -0.26   -0.64   -1.00   -1.33   -1.62   -1.87
SO XBADJ     230L       -6.23  -10.67  -14.78  -18.45  -21.55  -24.00
SO XBADJ     230L      -25.72  -26.66  -27.72  -29.74  -30.84  -31.02
SO XBADJ     230L      -30.25  -28.56  -26.00  -22.65  -18.62  -14.02
SO XBADJ     230L      -12.53  -11.42   -9.96   -8.21   -6.20   -4.00
SO YBADJ     230L      -10.66   -8.50   -6.08   -3.15   -0.37    2.41
SO YBADJ     230L        5.12    7.68   10.00   12.02   13.67   14.48
SO YBADJ     230L       15.31   15.68   15.58   15.00   13.96   12.50
SO YBADJ     230L       10.66    8.50    6.08    3.15    0.37   -2.41
SO YBADJ     230L       -5.12   -7.68  -10.00  -12.02  -13.67  -14.48
SO YBADJ     230L      -15.31  -15.68  -15.58  -15.00  -13.96  -12.50


SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230M       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDWID 230M       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230M       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230M       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDWID 230M       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230M       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230M       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDLEN 230M       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230M       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230M       18.76   22.09   24.75   26.65   27.75   28.00
SO BUILDLEN 230M       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230M       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230M       18.76   22.09   24.75   26.65   27.75   28.00
SO XBADJ     230M        3.94    3.76    1.66   -1.34   -4.30   -7.12
SO XBADJ     230M       -9.74  -12.05  -14.00  -15.52  -16.58  -17.12
SO XBADJ     230M      -21.34  -25.16  -28.21  -30.41  -31.69  -32.00
SO XBADJ     230M      -31.34  -29.73  -28.15  -27.51  -26.03  -23.76
SO XBADJ     230M      -20.77  -17.14  -13.00   -8.46   -3.67    1.24
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SO XBADJ     230M        2.57    3.06    3.46    3.76    3.94    4.00
SO YBADJ     230M        3.53    6.46    9.18   11.95   14.11   15.84
SO YBADJ     230M       17.09   17.81   18.00   17.64   16.74   14.91
SO YBADJ     230M       13.08   10.87    8.32    5.52    2.55   -0.50
SO YBADJ     230M       -3.53   -6.46   -9.18  -11.95  -14.11  -15.84
SO YBADJ     230M      -17.09  -17.81  -18.00  -17.64  -16.74  -14.91
SO YBADJ     230M      -13.08  -10.87   -8.32   -5.52   -2.55    0.50


SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ     221A       0.00    0.00    0.00    0.00    0.00    0.00
**
** Polyox - Institute Fugitive Sources
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION POLYVOL1 VOLUME 432175 4248394 181.6
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM POLYVOL1 1.0338E-03 4.572 3.023255814 4.253023256
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION BL8389A1 VOLUME 432195 4248382 181.66
   LOCATION BL8389A2 VOLUME 432191 4248374 181.66
   LOCATION BL8389B1 VOLUME 432195 4248382 181.66
   LOCATION BL8389B2 VOLUME 432191 4248374 181.66
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM BL8389A1 3.1487E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389A2 3.1487E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389B1 1.0966E-04 22.86 3.990697674 2.126511628
   SRCPARAM BL8389B2 1.0966E-04 22.86 3.990697674 2.126511628
**
** EO Distribution - Institute, WV
** Point Sources
```

```
**  Srcid Srctyp Xs Ys Zs
   LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
   SRCPARAM EODISTFL 2.9490E-03 27.432 866.4833333 8.6868 0.100584
**  Fugitive Sources
**  Railcar Unloading
**  Srcid Srctyp Xs Ys Zs
   LOCATION Rail1 VOLUME 431609 4248856 182.332
   LOCATION Rail2 VOLUME 431616 4248851 182.332
   LOCATION Rail3 VOLUME 431624 4248847 182.332
   LOCATION Rail4 VOLUME 431632 4248843 182.332
   LOCATION Rail5 VOLUME 431640 4248837 182.332
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
**  Pumps/Diked Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION PUMP1 VOLUME 431612 4248893 182.55
   LOCATION PUMP2 VOLUME 431620 4248889 182.55
   LOCATION PUMP3 VOLUME 431630 4248884 182.55
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
**  Tanks Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION TANKS1 VOLUME 431587 4248907 182.76
   LOCATION TANKS2 VOLUME 431599 4248903 182.76
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
   SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
**  Flare Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
   LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
   SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
**  Area Near Rt. 25
**  Srcid Srctyp Xs Ys Zs
   LOCATION R251 VOLUME 431873 4249163 183.655
   LOCATION R252 VOLUME 431877 4249161 183.655
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
   SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
**  EO DISTRIBUTION Source Groups
**  Point Source Groups
   SRCGROUP EODISTFL EODISTFL
   SRCGROUP EODPOINT EODISTFL
**  Fugitive Source Groups
   SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
   SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
   SRCGROUP EODTANKF TANKS1 TANKS2
   SRCGROUP EODFLARF FLAREFU1 FLAREFU2
   SRCGROUP EODR25F R251 R252
   SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
```

```
   SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**  EO DISTRIBTION ALL (Point and Fugitive)
   SRCGROUP EODIST EODISTFL
   SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
   SRCGROUP 221A 221A
   SRCGROUP 230M 230M
   SRCGROUP 230L 230L
   SRCGROUP 230K 230K
   SRCGROUP 230O 230O
   SRCGROUP 230HH 230HH
   SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
   SRCGROUP POLYVOL1 POLYVOL1
   SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
   SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
   SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
   SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
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January Monitoring Event AERMOD Source Input: South Charleston

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**Ethylene oxide - South Charleston, WV Monitoring Event #1 (Jan 25-26, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing
**********************************************************************************
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**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
**********************************************************************************
********
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 0 12.192 353.15 18.53184 0.039624
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
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SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 1.6952E-06 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 0 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 0 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 0 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
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SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 1.6952E-06 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 0 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 1.6952E-06 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 0 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 0 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51

**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAHR2 VOLUME 439731 4247128 182.63
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAHR2 4.0192E-04 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR451 VOLUME 439674 4247142 183
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SO LOCATION OAR452 VOLUME 439672 4247137 183
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
**  Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
**  Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**
** Lower Island Bridge
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
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** "TRITON - DOW/UCC - South Charleston  WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston  WV - Point Sources"
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
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SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 4.7249E-04 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 1.1606E-05 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston  WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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** Covestro - South Charleston, WV
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** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro EO03 Fugitives - CEO03F
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CEO03F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CEO03F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CEO03F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

**  Covestro Point Sources
**  SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.6699E-04 12.8016 313.15 10 0.254
**
** BPIP Parameters
**

SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ    1RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ    1RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ    1RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ    1RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ    1RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ    1RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ    1RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ    1RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
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SO YBADJ     1RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     1RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     1RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     1RX        27.27   23.45   18.92   13.81    8.28    2.50

SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID  2RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  2RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  2RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID  2RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  2RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  2RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN  2RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  2RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  2RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN  2RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  2RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  2RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ     2RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ     2RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ     2RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ     2RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ     2RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ     2RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ     2RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ     2RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
SO YBADJ     2RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     2RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     2RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     2RX        27.27   23.45   18.92   13.81    8.28    2.50

SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID  3RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  3RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  3RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID  3RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  3RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  3RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN  3RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  3RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  3RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN  3RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  3RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  3RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ     3RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ     3RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ     3RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ     3RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
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SO XBADJ     3RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ     3RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ     3RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ     3RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
SO YBADJ     3RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     3RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     3RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     3RX        27.27   23.45   18.92   13.81    8.28    2.50


SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO XBADJ     789RX       -13.68   -9.49  -13.37  -16.84  -19.79  -22.15
SO XBADJ     789RX       -23.83  -24.79  -25.00  -24.45  -23.15  -23.99
SO XBADJ     789RX       -25.63  -26.49  -26.55  -25.80  -24.27  -22.00
SO XBADJ     789RX       -19.06  -22.22  -26.39  -29.76  -32.23  -33.71
SO XBADJ     789RX       -34.17  -33.60  -32.00  -31.86  -33.75  -34.61
SO XBADJ     789RX       -34.43  -33.20  -30.95  -27.77  -23.75  -19.00
SO YBADJ     789RX        -3.71   -5.30   -5.31   -4.40   -3.35   -2.20
SO YBADJ     789RX        -0.98    0.26    1.50    2.69    6.37    6.51
SO YBADJ     789RX         6.46    6.22    5.78    5.17    4.40    3.50
SO YBADJ     789RX         3.71    5.30    5.31    4.40    3.35    2.20
SO YBADJ     789RX         0.98   -0.26   -1.50   -2.69   -6.37   -6.51
SO YBADJ     789RX        -6.46   -6.22   -5.78   -5.17   -4.40   -3.50
**
**************************************************************************
********
**
** "Chemical Mixing Process Area - South Charleston  WV - Ethylene Oxide"
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CHMIX AREA 440262 4246838 176.33
**  Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808
**
**
**************************************************************************
********
** SOURCE GROUPS
**************************************************************************
********
** Chemical Mixing Source Group
SO SRCGROUP CHMIX CHMIX
**
```

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**********************************************************************************
********
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CEO03F CEO03F1 CEO03F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
**********************************************************************************
********
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
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********
** Oxide Adducts Source Groups
**
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAHR2F OAHR2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAHR2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAHR2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
```

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**********
** UCC - South Charlston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OAHR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```

February Monitoring Event AERMOD Source Input: Institute

```
**  WVDAQ - Monitoring Event 2 **
**  2022 Event 2 Emissions  **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US  LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
   LOCATION 221A POINT 431513.4933 4248834.413 181.53
   LOCATION 230M POINT 432213.6261 4248385.614 181.64
   LOCATION 230L POINT 432200.8493 4248393.156 181.74
   LOCATION 230K POINT 432191.221 4248390.796 181.63
   LOCATION 230O POINT 432192.7629 4248376.801 181.62
   LOCATION 230HH POINT 432172.9967 4248384.18 181.56
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
   SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
   SRCPARAM 230M 2.6434E-03 4.572 318.15 16.608552 0.040894
   SRCPARAM 230L 1.2436E-02 4.572 318.15 22.823424 0.040894
   SRCPARAM 230K 2.4507E-03 4.572 318.15 51.499008 0.040894
   SRCPARAM 230O 3.5279E-04 27.432 318.15 2.618232 0.200406
   SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH       7.00    0.00    0.00    0.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 230HH       7.00    7.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      48.55    0.00    0.00    0.00   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      27.75   23.66   20.22   22.87   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      39.34    0.00    0.00    0.00   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      30.99   30.16   30.38   32.18   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH      12.04    0.00    0.00    0.00   27.75   28.88
SO XBADJ    230HH      29.13   28.50   27.00   24.68    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH     -51.38  -52.20  -51.44  -51.61  -58.08  -59.77
SO XBADJ    230HH     -59.64  -57.69  -54.00  -48.66    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH     -24.39    0.00    0.00    0.00  -11.48   -3.80
SO YBADJ    230HH       4.00   11.68   19.00   25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH      13.99    8.06    1.20   -6.27   11.48    3.80
SO YBADJ    230HH      -4.00  -11.68  -19.00  -25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00


SO BUILDHGT 230O       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230O       25.90   25.90    0.00    0.00    0.00    0.00
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SO BUILDHGT 230O      0.00    0.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230O     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230O     25.90   25.90    0.00    0.00    0.00    0.00
SO BUILDHGT 230O      0.00    0.00    7.00    7.00   25.90   25.90
SO BUILDWID 230O     23.99   20.24   15.88   18.76   22.09   24.28
SO BUILDWID 230O     24.28   24.28    0.00    0.00    0.00    0.00
SO BUILDWID 230O      0.00    0.00   34.85   34.60   24.28   24.28
SO BUILDWID 230O     23.99   20.24   15.88   18.76   22.09   24.28
SO BUILDWID 230O     24.28   24.28    0.00    0.00    0.00    0.00
SO BUILDWID 230O      0.00    0.00   45.30   48.35   24.28   24.28
SO BUILDLEN 230O     27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230O     30.50   29.19    0.00    0.00    0.00    0.00
SO BUILDLEN 230O      0.00    0.00   29.21   31.10   27.75   28.00
SO BUILDLEN 230O     27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230O     30.50   29.19    0.00    0.00    0.00    0.00
SO BUILDLEN 230O      0.00    0.00   49.61   49.21   27.75   28.00
SO XBADJ    230O     16.45   19.40   19.95   19.05   17.58   15.56
SO XBADJ    230O     13.08   10.19    0.00    0.00    0.00    0.00
SO XBADJ    230O      0.00    0.00  -50.36  -54.25  -36.90  -41.00
SO XBADJ    230O    -43.85  -45.37  -46.44  -47.90  -47.90  -46.44
SO XBADJ    230O    -43.58  -39.39    0.00    0.00    0.00    0.00
SO XBADJ    230O      0.00    0.00    0.76    5.03    9.16   13.00
SO YBADJ    230O    -15.59  -10.20   -4.50    1.65    7.51   13.13
SO YBADJ    230O     18.36   23.03    0.00    0.00    0.00    0.00
SO YBADJ    230O      0.00    0.00   18.57   12.53   24.79   20.50
SO YBADJ    230O     15.59   10.20    4.50   -1.65   -7.51  -13.13
SO YBADJ    230O    -18.36  -23.03    0.00    0.00    0.00    0.00
SO YBADJ    230O      0.00    0.00  -23.79  -19.40  -24.79  -20.50

SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K     25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDWID 230K     23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230K     26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230K     28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDWID 230K     23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230K     26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230K     28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDLEN 230K     27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230K     30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230K     18.76   22.09   24.75   26.65   27.75   28.00
SO BUILDLEN 230K     27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230K     30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230K     18.76   22.09   24.75   26.65   27.75   28.00
SO XBADJ    230K      2.84    6.58    8.33    8.97    9.34    9.43
SO XBADJ    230K      9.23    8.75    8.00    7.01    5.81    4.43
SO XBADJ    230K     -1.27   -7.18  -12.88  -18.19  -22.94  -27.00
SO XBADJ    230K    -30.24  -32.55  -34.82  -37.82  -39.67  -40.31
SO XBADJ    230K    -39.73  -37.94  -35.00  -31.00  -26.05  -20.31
SO XBADJ    230K    -17.50  -14.91  -11.87   -8.46   -4.81   -1.00
SO YBADJ    230K    -19.00  -15.93  -12.37   -8.11   -3.86    0.51
SO YBADJ    230K      4.86    9.07   13.00   16.54   19.57   21.58
SO YBADJ    230K     23.40   24.50   24.87   24.48   23.34   21.50
SO YBADJ    230K     19.00   15.93   12.37    8.11    3.86   -0.51
SO YBADJ    230K     -4.86   -9.07  -13.00  -16.54  -19.57  -21.58
SO YBADJ    230K    -23.40  -24.50  -24.87  -24.48  -23.34  -21.50
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SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO	YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO	YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO	YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50

SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO	XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO	XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO	XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84
SO	YBADJ	230M	17.09	17.81	18.00	17.64	16.74	14.91

```
SO YBADJ    230M       13.08   10.87    8.32    5.52    2.55   -0.50
SO YBADJ    230M       -3.53   -6.46   -9.18  -11.95  -14.11  -15.84
SO YBADJ    230M      -17.09  -17.81  -18.00  -17.64  -16.74  -14.91
SO YBADJ    230M      -13.08  -10.87   -8.32   -5.52   -2.55    0.50


SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
**
** Polyox - Institute Fugitive Sources
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION POLYVOL1 VOLUME 432175 4248394 181.6
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM POLYVOL1 8.6939E-04 4.572 3.023255814 4.253023256
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION BL8389A1 VOLUME 432195 4248382 181.66
   LOCATION BL8389A2 VOLUME 432191 4248374 181.66
   LOCATION BL8389B1 VOLUME 432195 4248382 181.66
   LOCATION BL8389B2 VOLUME 432191 4248374 181.66
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM BL8389A1 3.1499E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389A2 3.1499E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389B1 1.0710E-04 22.86 3.990697674 2.126511628
   SRCPARAM BL8389B2 1.0710E-04 22.86 3.990697674 2.126511628
**
** EO Distribution - Institute, WV
** Point Sources
**  Srcid Srctyp Xs Ys Zs
   LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
```

```
   SRCPARAM EODISTFL 4.6855E-03 27.432 866.4833333 8.6868 0.100584
**  Fugitive Sources
**  Railcar Unloading
**  Srcid Srctyp Xs Ys Zs
   LOCATION Rail1 VOLUME 431609 4248856 182.332
   LOCATION Rail2 VOLUME 431616 4248851 182.332
   LOCATION Rail3 VOLUME 431624 4248847 182.332
   LOCATION Rail4 VOLUME 431632 4248843 182.332
   LOCATION Rail5 VOLUME 431640 4248837 182.332
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
**  Pumps/Diked Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION PUMP1 VOLUME 431612 4248893 182.55
   LOCATION PUMP2 VOLUME 431620 4248889 182.55
   LOCATION PUMP3 VOLUME 431630 4248884 182.55
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
**  Tanks Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION TANKS1 VOLUME 431587 4248907 182.76
   LOCATION TANKS2 VOLUME 431599 4248903 182.76
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
   SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
**  Flare Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
   LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
   SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
**  Area Near Rt. 25
**  Srcid Srctyp Xs Ys Zs
   LOCATION R251 VOLUME 431873 4249163 183.655
   LOCATION R252 VOLUME 431877 4249161 183.655
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
   SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
**  EO DISTRIBUTION Source Groups
**  Point Source Groups
   SRCGROUP EODISTFL EODISTFL
   SRCGROUP EODPOINT EODISTFL
**  Fugitive Source Groups
   SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
   SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
   SRCGROUP EODTANKF TANKS1 TANKS2
   SRCGROUP EODFLARF FLAREFU1 FLAREFU2
   SRCGROUP EODR25F R251 R252
   SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**  EO DISTRIBTION ALL (Point and Fugitive)
   SRCGROUP EODIST EODISTFL
```

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   SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
   SRCGROUP 221A 221A
   SRCGROUP 230M 230M
   SRCGROUP 230L 230L
   SRCGROUP 230K 230K
   SRCGROUP 230O 230O
   SRCGROUP 230HH 230HH
   SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
   SRCGROUP POLYVOL1 POLYVOL1
   SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
   SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
   SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
   SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
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February Monitoring Event AERMOD Source Input: South Charleston

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**Ethylene oxide - South Charleston, WV Monitoring Event #2 (Feb 15-16, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing
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**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
**********************************************************************
********
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 3.4124E-03 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 3.9374E-03 12.192 353.15 18.53184 0.039624
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
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SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 1.6952E-06 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 1.6952E-06 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 1.6952E-06 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
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SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 0 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 1.6952E-06 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 0 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51

**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 0 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAHR2 VOLUME 439731 4247128 182.63
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAHR2 0.00040193 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
**  Srcid Srctyp Xs Ys Zs
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SO LOCATION OAR451 VOLUME 439674 4247142 183
SO LOCATION OAR452 VOLUME 439672 4247137 183
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
**  Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
**  Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**
** Lower Island Bridge
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
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** "TRITON - DOW/UCC - South Charleston  WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston  WV - Point Sources"
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
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SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 8.3999E-04 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 1.1606E-05 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 0 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 0 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston  WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
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** Covestro - South Charleston, WV
** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro EO03 Fugitives - CEO03F
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CEO03F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CEO03F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CEO03F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

**  Covestro Point Sources
**  SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 8.8199E-04 12.8016 313.15 10 0.254
**
** BPIP Parameters
**

SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ    1RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ    1RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ    1RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ    1RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ    1RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ    1RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ    1RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
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SO	YBADJ	1RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	1RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	1RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	1RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	1RX	27.27	23.45	18.92	13.81	8.28	2.50
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	2RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO	BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO	BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO	BUILDWID	2RX	30.25	31.80	40.39	47.76	53.68	57.96
SO	BUILDWID	2RX	60.49	61.17	60.00	57.00	57.50	60.20
SO	BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO	BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO	BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO	BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO	BUILDLEN	2RX	57.00	57.50	60.20	61.07	60.09	57.27
SO	BUILDLEN	2RX	52.72	46.57	39.00	30.25	31.80	40.39
SO	BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO	XBADJ	2RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO	XBADJ	2RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO	XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO	XBADJ	2RX	3.82	3.58	0.16	-3.27	-6.59	-9.72
SO	XBADJ	2RX	-12.55	-15.01	-17.00	-18.48	-28.13	-37.56
SO	XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO	YBADJ	2RX	-3.36	-12.23	-17.37	-21.98	-25.92	-29.08
SO	YBADJ	2RX	-31.35	-32.67	-33.00	-32.33	-32.33	-30.26
SO	YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO	YBADJ	2RX	3.36	12.23	17.37	21.98	25.92	29.08
SO	YBADJ	2RX	31.35	32.67	33.00	32.33	32.33	30.26
SO	YBADJ	2RX	27.27	23.45	18.92	13.81	8.28	2.50
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO	BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO	BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO	BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO	BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO	BUILDWID	3RX	60.49	61.17	60.00	57.00	57.50	60.20
SO	BUILDWID	3RX	61.07	60.09	57.27	52.72	46.57	39.00
SO	BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO	BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO	BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO	BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO	BUILDLEN	3RX	52.72	46.57	39.00	30.25	31.80	40.39
SO	BUILDLEN	3RX	47.76	53.68	57.96	60.49	61.17	60.00
SO	XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO	XBADJ	3RX	-40.17	-31.56	-22.00	-11.77	-3.67	-2.83
SO	XBADJ	3RX	-1.90	-0.92	0.10	1.11	2.09	3.00

```
SO XBADJ     3RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ     3RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ     3RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ     3RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ     3RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
SO YBADJ     3RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     3RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     3RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     3RX        27.27   23.45   18.92   13.81    8.28    2.50

SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO XBADJ    789RX       -13.68   -9.49  -13.37  -16.84  -19.79  -22.15
SO XBADJ    789RX       -23.83  -24.79  -25.00  -24.45  -23.15  -23.99
SO XBADJ    789RX       -25.63  -26.49  -26.55  -25.80  -24.27  -22.00
SO XBADJ    789RX       -19.06  -22.22  -26.39  -29.76  -32.23  -33.71
SO XBADJ    789RX       -34.17  -33.60  -32.00  -31.86  -33.75  -34.61
SO XBADJ    789RX       -34.43  -33.20  -30.95  -27.77  -23.75  -19.00
SO YBADJ    789RX        -3.71   -5.30   -5.31   -4.40   -3.35   -2.20
SO YBADJ    789RX        -0.98    0.26    1.50    2.69    6.37    6.51
SO YBADJ    789RX         6.46    6.22    5.78    5.17    4.40    3.50
SO YBADJ    789RX         3.71    5.30    5.31    4.40    3.35    2.20
SO YBADJ    789RX         0.98   -0.26   -1.50   -2.69   -6.37   -6.51
SO YBADJ    789RX        -6.46   -6.22   -5.78   -5.17   -4.40   -3.50
**
**********************************************************************************
********
**
** "Chemical Mixing Process Area - South Charleston  WV - Ethylene Oxide"
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CHMIX AREA 440262 4246838 176.33
**  Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808
**
**
**********************************************************************************
********
** SOURCE GROUPS
**********************************************************************************
********
** Chemical Mixing Source Group
SO SRCGROUP CHMIX CHMIX
**
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**********************************************************************************
********
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CEO03F CEO03F1 CEO03F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
**********************************************************************************
********
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
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********
** Oxide Adducts Source Groups
**
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAHR2F OAHR2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAHR2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAHR2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
```

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**********
** UCC - South Charlston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OAHR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```

March Monitoring Event AERMOD Source Input: Institute

```
**  WVDAQ - Monitoring Event 3 **
**  2022 Event 3 Emissions  **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US  LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** Emission Rates for the March 24-24, 2022 Monitoring Event
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
   LOCATION 221A POINT 431513.4933 4248834.413 181.53
   LOCATION 230M POINT 432213.6261 4248385.614 181.64
   LOCATION 230L POINT 432200.8493 4248393.156 181.74
   LOCATION 230K POINT 432191.221 4248390.796 181.63
   LOCATION 230O POINT 432192.7629 4248376.801 181.62
   LOCATION 230HH POINT 432172.9967 4248384.18 181.56
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
   SRCPARAM 221A 4.5359E-03 35.6616 866.4833333 4.81584 0.254
   SRCPARAM 230M 2.7468E-03 4.572 318.15 16.608552 0.040894
   SRCPARAM 230L 1.2890E-02 4.572 318.15 22.823424 0.040894
   SRCPARAM 230K 2.6699E-03 4.572 318.15 51.499008 0.040894
   SRCPARAM 230O 2.7543E-03 27.432 318.15 2.618232 0.200406
   SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH       7.00    0.00    0.00    0.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 230HH       7.00    7.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      48.55    0.00    0.00    0.00   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      27.75   23.66   20.22   22.87   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      39.34    0.00    0.00    0.00   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      30.99   30.16   30.38   32.18   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH      12.04    0.00    0.00    0.00   27.75   28.88
SO XBADJ    230HH      29.13   28.50   27.00   24.68    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH     -51.38  -52.20  -51.44  -51.61  -58.08  -59.77
SO XBADJ    230HH     -59.64  -57.69  -54.00  -48.66    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH     -24.39    0.00    0.00    0.00  -11.48   -3.80
SO YBADJ    230HH       4.00   11.68   19.00   25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH      13.99    8.06    1.20   -6.27   11.48    3.80
SO YBADJ    230HH      -4.00  -11.68  -19.00  -25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00


SO BUILDHGT 230O       25.90   25.90   25.90   25.90   25.90   25.90
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SO BUILDHGT 230O       25.90   25.90    0.00    0.00    0.00    0.00
SO BUILDHGT 230O        0.00    0.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230O       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230O       25.90   25.90    0.00    0.00    0.00    0.00
SO BUILDHGT 230O        0.00    0.00    7.00    7.00   25.90   25.90
SO BUILDWID 230O       23.99   20.24   15.88   18.76   22.09   24.28
SO BUILDWID 230O       24.28   24.28    0.00    0.00    0.00    0.00
SO BUILDWID 230O        0.00    0.00   34.85   34.60   24.28   24.28
SO BUILDWID 230O       23.99   20.24   15.88   18.76   22.09   24.28
SO BUILDWID 230O       24.28   24.28    0.00    0.00    0.00    0.00
SO BUILDWID 230O        0.00    0.00   45.30   48.35   24.28   24.28
SO BUILDLEN 230O       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230O       30.50   29.19    0.00    0.00    0.00    0.00
SO BUILDLEN 230O        0.00    0.00   29.21   31.10   27.75   28.00
SO BUILDLEN 230O       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230O       30.50   29.19    0.00    0.00    0.00    0.00
SO BUILDLEN 230O        0.00    0.00   49.61   49.21   27.75   28.00
SO XBADJ    230O       16.45   19.40   19.95   19.05   17.58   15.56
SO XBADJ    230O       13.08   10.19    0.00    0.00    0.00    0.00
SO XBADJ    230O        0.00    0.00  -50.36  -54.25  -36.90  -41.00
SO XBADJ    230O      -43.85  -45.37  -46.44  -47.90  -47.90  -46.44
SO XBADJ    230O      -43.58  -39.39    0.00    0.00    0.00    0.00
SO XBADJ    230O        0.00    0.00    0.76    5.03    9.16   13.00
SO YBADJ    230O      -15.59  -10.20   -4.50    1.65    7.51   13.13
SO YBADJ    230O       18.36   23.03    0.00    0.00    0.00    0.00
SO YBADJ    230O        0.00    0.00   18.57   12.53   24.79   20.50
SO YBADJ    230O       15.59   10.20    4.50   -1.65   -7.51  -13.13
SO YBADJ    230O      -18.36  -23.03    0.00    0.00    0.00    0.00
SO YBADJ    230O        0.00    0.00  -23.79  -19.40  -24.79  -20.50

SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT 230K       25.90   25.90   25.90   25.90   25.90   25.90
SO BUILDWID 230K       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230K       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230K       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDWID 230K       23.99   20.24   15.88   18.76   22.09   24.75
SO BUILDWID 230K       26.65   27.75   28.00   27.40   25.97   26.49
SO BUILDWID 230K       28.85   30.33   30.88   30.50   29.19   27.00
SO BUILDLEN 230K       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230K       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230K       18.76   22.09   24.75   26.65   27.75   28.00
SO BUILDLEN 230K       27.40   25.97   26.49   28.85   30.33   30.88
SO BUILDLEN 230K       30.50   29.19   27.00   23.99   20.24   15.88
SO BUILDLEN 230K       18.76   22.09   24.75   26.65   27.75   28.00
SO XBADJ    230K        2.84    6.58    8.33    8.97    9.34    9.43
SO XBADJ    230K        9.23    8.75    8.00    7.01    5.81    4.43
SO XBADJ    230K       -1.27   -7.18  -12.88  -18.19  -22.94  -27.00
SO XBADJ    230K      -30.24  -32.55  -34.82  -37.82  -39.67  -40.31
SO XBADJ    230K      -39.73  -37.94  -35.00  -31.00  -26.05  -20.31
SO XBADJ    230K      -17.50  -14.91  -11.87   -8.46   -4.81   -1.00
SO YBADJ    230K      -19.00  -15.93  -12.37   -8.11   -3.86    0.51
SO YBADJ    230K        4.86    9.07   13.00   16.54   19.57   21.58
SO YBADJ    230K       23.40   24.50   24.87   24.48   23.34   21.50
SO YBADJ    230K       19.00   15.93   12.37    8.11    3.86   -0.51
SO YBADJ    230K       -4.86   -9.07  -13.00  -16.54  -19.57  -21.58
```

SO	YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO	YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO	YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO	YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO	XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO	XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO	XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84

```
SO YBADJ    230M       17.09   17.81   18.00   17.64   16.74   14.91
SO YBADJ    230M       13.08   10.87    8.32    5.52    2.55   -0.50
SO YBADJ    230M       -3.53   -6.46   -9.18  -11.95  -14.11  -15.84
SO YBADJ    230M      -17.09  -17.81  -18.00  -17.64  -16.74  -14.91
SO YBADJ    230M      -13.08  -10.87   -8.32   -5.52   -2.55    0.50


SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
**
** Polyox - Institute Fugitve Sources
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION POLYVOL1 VOLUME 432175 4248394 181.6
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM POLYVOL1 6.9299E-04 4.572 3.023255814 4.253023256
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION BL8389A1 VOLUME 432195 4248382 181.66
   LOCATION BL8389A2 VOLUME 432191 4248374 181.66
   LOCATION BL8389B1 VOLUME 432195 4248382 181.66
   LOCATION BL8389B2 VOLUME 432191 4248374 181.66
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM BL8389A1 3.1499E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389A2 3.1499E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389B1 1.0710E-04 22.86 3.990697674 2.126511628
   SRCPARAM BL8389B2 1.0710E-04 22.86 3.990697674 2.126511628
**
** EO Distribution - Institute, WV
** Point Sources
**  Srcid Srctyp Xs Ys Zs
   LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
```

```
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
   SRCPARAM EODISTFL 5.1856E-03 27.432 866.4833333 8.6868 0.100584
**  Fugitive Sources
**  Railcar Unloading
**  Srcid Srctyp Xs Ys Zs
   LOCATION Rail1 VOLUME 431609 4248856 182.332
   LOCATION Rail2 VOLUME 431616 4248851 182.332
   LOCATION Rail3 VOLUME 431624 4248847 182.332
   LOCATION Rail4 VOLUME 431632 4248843 182.332
   LOCATION Rail5 VOLUME 431640 4248837 182.332
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
**  Pumps/Diked Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION PUMP1 VOLUME 431612 4248893 182.55
   LOCATION PUMP2 VOLUME 431620 4248889 182.55
   LOCATION PUMP3 VOLUME 431630 4248884 182.55
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
**  Tanks Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION TANKS1 VOLUME 431587 4248907 182.76
   LOCATION TANKS2 VOLUME 431599 4248903 182.76
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
   SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
**  Flare Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
   LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
   SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
**  Area Near Rt. 25
**  Srcid Srctyp Xs Ys Zs
   LOCATION R251 VOLUME 431873 4249163 183.655
   LOCATION R252 VOLUME 431877 4249161 183.655
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
   SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
**  EO DISTRIBUTION Source Groups
**  Point Source Groups
   SRCGROUP EODISTFL EODISTFL
   SRCGROUP EODPOINT EODISTFL
**  Fugitive Source Groups
   SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
   SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
   SRCGROUP EODTANKF TANKS1 TANKS2
   SRCGROUP EODFLARF FLAREFU1 FLAREFU2
   SRCGROUP EODR25F R251 R252
   SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**  EO DISTRIBTION ALL (Point and Fugitive)
```

```
   SRCGROUP EODIST EODISTFL
   SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
   SRCGROUP 221A 221A
   SRCGROUP 230M 230M
   SRCGROUP 230L 230L
   SRCGROUP 230K 230K
   SRCGROUP 230O 230O
   SRCGROUP 230HH 230HH
   SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
   SRCGROUP POLYVOL1 POLYVOL1
   SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
   SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
   SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
   SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```

March Monitoring Event AERMOD Source Input: South Charleston

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**Ethylene oxide - South Charleston, WV Monitoring Event #3 (Mar 23-24, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing
**********************************************************************
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**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
**********************************************************************
********
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 6.4049E-03 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 3.3599E-03 12.192 353.15 18.53184 0.039624
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
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SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 1.6952E-06 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 0 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 1.6952E-06 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 1.6952E-06 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 1.6952E-06 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
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SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 0 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 1.6952E-06 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 1.6952E-06 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 0 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 1.6952E-06 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 1.6952E-06 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51

**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 0 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAHR2 VOLUME 439731 4247128 182.63
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAHR2 0.00040193 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR451 VOLUME 439674 4247142 183
```

```
SO LOCATION OAR452 VOLUME 439672 4247137 183
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
**  Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
**  Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**
** Lower Island Bridge
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
**************************************************************************
********
** "TRITON - DOW/UCC - South Charleston  WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston  WV - Point Sources"
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
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SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 0.00062999 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 0 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 0 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 0 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 0 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston  WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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********
** Covestro - South Charleston, WV
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** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro EO03 Fugitives - CEO03F
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CEO03F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CEO03F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CEO03F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

**  Covestro Point Sources
**  SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 5.2415E-05 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.7707E-04 12.8016 313.15 10 0.254
**
** BPIP Parameters
**

SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ    1RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ    1RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ    1RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ    1RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ    1RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ    1RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ    1RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ    1RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
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SO YBADJ     1RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     1RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     1RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     1RX        27.27   23.45   18.92   13.81    8.28    2.50

SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  2RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID  2RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  2RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  2RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID  2RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  2RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  2RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN  2RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  2RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  2RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN  2RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  2RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  2RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ     2RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ     2RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ     2RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ     2RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ     2RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ     2RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ     2RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ     2RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
SO YBADJ     2RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     2RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     2RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     2RX        27.27   23.45   18.92   13.81    8.28    2.50

SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT  3RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID  3RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  3RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  3RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID  3RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID  3RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID  3RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN  3RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  3RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  3RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN  3RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN  3RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN  3RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ     3RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ     3RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ     3RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ     3RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
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SO XBADJ     3RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ     3RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ     3RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
SO YBADJ     3RX       -31.35  -32.67  -33.00  -32.33  -32.33  -30.26
SO YBADJ     3RX       -27.27  -23.45  -18.92  -13.81   -8.28   -2.50
SO YBADJ     3RX         3.36   12.23   17.37   21.98   25.92   29.08
SO YBADJ     3RX        31.35   32.67   33.00   32.33   32.33   30.26
SO YBADJ     3RX        27.27   23.45   18.92   13.81    8.28    2.50


SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 789RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDWID 789RX        56.31   56.90   58.61   60.06   59.69   57.51
SO BUILDWID 789RX        53.58   48.02   41.00   32.74   31.71   39.76
SO BUILDWID 789RX        46.60   52.02   55.86   58.01   58.39   57.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO BUILDLEN 789RX        32.74   31.71   39.76   46.60   52.02   55.86
SO BUILDLEN 789RX        58.01   58.39   57.00   56.31   56.90   58.61
SO BUILDLEN 789RX        60.06   59.69   57.51   53.58   48.02   41.00
SO XBADJ     789RX       -13.68   -9.49  -13.37  -16.84  -19.79  -22.15
SO XBADJ     789RX       -23.83  -24.79  -25.00  -24.45  -23.15  -23.99
SO XBADJ     789RX       -25.63  -26.49  -26.55  -25.80  -24.27  -22.00
SO XBADJ     789RX       -19.06  -22.22  -26.39  -29.76  -32.23  -33.71
SO XBADJ     789RX       -34.17  -33.60  -32.00  -31.86  -33.75  -34.61
SO XBADJ     789RX       -34.43  -33.20  -30.95  -27.77  -23.75  -19.00
SO YBADJ     789RX        -3.71   -5.30   -5.31   -4.40   -3.35   -2.20
SO YBADJ     789RX        -0.98    0.26    1.50    2.69    6.37    6.51
SO YBADJ     789RX         6.46    6.22    5.78    5.17    4.40    3.50
SO YBADJ     789RX         3.71    5.30    5.31    4.40    3.35    2.20
SO YBADJ     789RX         0.98   -0.26   -1.50   -2.69   -6.37   -6.51
SO YBADJ     789RX        -6.46   -6.22   -5.78   -5.17   -4.40   -3.50
**
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**
** "Chemical Mixing Process Area - South Charleston  WV - Ethylene Oxide"
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CHMIX AREA 440262 4246838 176.33
**  Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808
**
**
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********
** SOURCE GROUPS
**********************************************************************************
********
** Chemical Mixing Source Group
SO SRCGROUP CHMIX CHMIX
**
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********
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CEO03F CEO03F1 CEO03F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
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********
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
**************************************************************************************
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** Oxide Adducts Source Groups
**
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAHR2F OAHR2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAHR2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAHR2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
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**********
** UCC - South Charlston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OAHR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```

April Monitoring Event AERMOD Source Input: Institute

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**  WVDAQ - Monitoring Event 4 **
**  2022 Event 4 Emissions  **
**
** Ethylene Oxide - Institute, WV - EO Distribution and POLYOX
** Specialty Products US  LLC (POLYOX plant facility 54-039-00005 )
** Polyox - Institute Point Sources
** LOCATION SOURCE ID UTM_E UTM_W ELEV (m)
   LOCATION 221A POINT 431513.4933 4248834.413 181.53
   LOCATION 230M POINT 432213.6261 4248385.614 181.64
   LOCATION 230L POINT 432200.8493 4248393.156 181.74
   LOCATION 230K POINT 432191.221 4248390.796 181.63
   LOCATION 230O POINT 432192.7629 4248376.801 181.62
   LOCATION 230HH POINT 432172.9967 4248384.18 181.56
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
   SRCPARAM 221A 0 35.6616 866.4833333 4.81584 0.254
   SRCPARAM 230M 0 4.572 318.15 16.608552 0.040894
   SRCPARAM 230L 0 4.572 318.15 22.823424 0.040894
   SRCPARAM 230K 0 4.572 318.15 51.499008 0.040894
   SRCPARAM 230O 0 27.432 318.15 2.618232 0.200406
   SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
**
** BPIP Parameters
**
SO BUILDHGT 230HH       7.00    0.00    0.00    0.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 230HH       7.00    7.00    7.00    7.00   25.90   25.90
SO BUILDHGT 230HH      25.90   25.90   25.90   25.90    0.00    0.00
SO BUILDHGT 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      48.55    0.00    0.00    0.00   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 230HH      27.75   23.66   20.22   22.87   22.09   24.75
SO BUILDWID 230HH      26.65   27.75   28.00   27.40    0.00    0.00
SO BUILDWID 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      39.34    0.00    0.00    0.00   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 230HH      30.99   30.16   30.38   32.18   30.33   30.88
SO BUILDLEN 230HH      30.50   29.19   27.00   23.99    0.00    0.00
SO BUILDLEN 230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH      12.04    0.00    0.00    0.00   27.75   28.88
SO XBADJ    230HH      29.13   28.50   27.00   24.68    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    230HH     -51.38  -52.20  -51.44  -51.61  -58.08  -59.77
SO XBADJ    230HH     -59.64  -57.69  -54.00  -48.66    0.00    0.00
SO XBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH     -24.39    0.00    0.00    0.00  -11.48   -3.80
SO YBADJ    230HH       4.00   11.68   19.00   25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    230HH      13.99    8.06    1.20   -6.27   11.48    3.80
SO YBADJ    230HH      -4.00  -11.68  -19.00  -25.74    0.00    0.00
SO YBADJ    230HH       0.00    0.00    0.00    0.00    0.00    0.00


SO BUILDHGT 230O       25.90   25.90   25.90   25.90   25.90   25.90
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SO BUILDHGT	230O	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT	230O	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDHGT	230O	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230O	25.90	25.90	0.00	0.00	0.00	0.00
SO BUILDHGT	230O	0.00	0.00	7.00	7.00	25.90	25.90
SO BUILDWID	230O	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID	230O	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID	230O	0.00	0.00	34.85	34.60	24.28	24.28
SO BUILDWID	230O	23.99	20.24	15.88	18.76	22.09	24.28
SO BUILDWID	230O	24.28	24.28	0.00	0.00	0.00	0.00
SO BUILDWID	230O	0.00	0.00	45.30	48.35	24.28	24.28
SO BUILDLEN	230O	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230O	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN	230O	0.00	0.00	29.21	31.10	27.75	28.00
SO BUILDLEN	230O	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230O	30.50	29.19	0.00	0.00	0.00	0.00
SO BUILDLEN	230O	0.00	0.00	49.61	49.21	27.75	28.00
SO XBADJ	230O	16.45	19.40	19.95	19.05	17.58	15.56
SO XBADJ	230O	13.08	10.19	0.00	0.00	0.00	0.00
SO XBADJ	230O	0.00	0.00	-50.36	-54.25	-36.90	-41.00
SO XBADJ	230O	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
SO XBADJ	230O	-43.58	-39.39	0.00	0.00	0.00	0.00
SO XBADJ	230O	0.00	0.00	0.76	5.03	9.16	13.00
SO YBADJ	230O	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO YBADJ	230O	18.36	23.03	0.00	0.00	0.00	0.00
SO YBADJ	230O	0.00	0.00	18.57	12.53	24.79	20.50
SO YBADJ	230O	15.59	10.20	4.50	-1.65	-7.51	-13.13
SO YBADJ	230O	-18.36	-23.03	0.00	0.00	0.00	0.00
SO YBADJ	230O	0.00	0.00	-23.79	-19.40	-24.79	-20.50

SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDHGT	230K	25.90	25.90	25.90	25.90	25.90	25.90
SO BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDWID	230K	23.99	20.24	15.88	18.76	22.09	24.75
SO BUILDWID	230K	26.65	27.75	28.00	27.40	25.97	26.49
SO BUILDWID	230K	28.85	30.33	30.88	30.50	29.19	27.00
SO BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO BUILDLEN	230K	27.40	25.97	26.49	28.85	30.33	30.88
SO BUILDLEN	230K	30.50	29.19	27.00	23.99	20.24	15.88
SO BUILDLEN	230K	18.76	22.09	24.75	26.65	27.75	28.00
SO XBADJ	230K	2.84	6.58	8.33	8.97	9.34	9.43
SO XBADJ	230K	9.23	8.75	8.00	7.01	5.81	4.43
SO XBADJ	230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
SO XBADJ	230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
SO XBADJ	230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
SO XBADJ	230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
SO YBADJ	230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
SO YBADJ	230K	4.86	9.07	13.00	16.54	19.57	21.58
SO YBADJ	230K	23.40	24.50	24.87	24.48	23.34	21.50
SO YBADJ	230K	19.00	15.93	12.37	8.11	3.86	-0.51
SO YBADJ	230K	-4.86	-9.07	-13.00	-16.54	-19.57	-21.58

SO	YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230L	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230L	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230L	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230L	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230L	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230L	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
SO	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
SO	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
SO	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
SO	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
SO	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
SO	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
SO	YBADJ	230L	5.12	7.68	10.00	12.02	13.67	14.48
SO	YBADJ	230L	15.31	15.68	15.58	15.00	13.96	12.50
SO	YBADJ	230L	10.66	8.50	6.08	3.15	0.37	-2.41
SO	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-14.48
SO	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID	230M	23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID	230M	26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID	230M	28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	BUILDLEN	230M	27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN	230M	30.50	29.19	27.00	23.99	20.24	15.88
SO	BUILDLEN	230M	18.76	22.09	24.75	26.65	27.75	28.00
SO	XBADJ	230M	3.94	3.76	1.66	-1.34	-4.30	-7.12
SO	XBADJ	230M	-9.74	-12.05	-14.00	-15.52	-16.58	-17.12
SO	XBADJ	230M	-21.34	-25.16	-28.21	-30.41	-31.69	-32.00
SO	XBADJ	230M	-31.34	-29.73	-28.15	-27.51	-26.03	-23.76
SO	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
SO	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
SO	YBADJ	230M	3.53	6.46	9.18	11.95	14.11	15.84

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SO YBADJ    230M       17.09   17.81   18.00   17.64   16.74   14.91
SO YBADJ    230M       13.08   10.87    8.32    5.52    2.55   -0.50
SO YBADJ    230M       -3.53   -6.46   -9.18  -11.95  -14.11  -15.84
SO YBADJ    230M      -17.09  -17.81  -18.00  -17.64  -16.74  -14.91
SO YBADJ    230M      -13.08  -10.87   -8.32   -5.52   -2.55    0.50


SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDHGT 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDWID 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO BUILDLEN 221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO XBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
SO YBADJ    221A        0.00    0.00    0.00    0.00    0.00    0.00
**
** Polyox - Institute Fugitive Sources
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION POLYVOL1 VOLUME 432175 4248394 181.6
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM POLYVOL1 1.9908E-04 4.572 3.023255814 4.253023256
**
**  Srcid Srctyp Xs Ys Zs
   LOCATION BL8389A1 VOLUME 432195 4248382 181.66
   LOCATION BL8389A2 VOLUME 432191 4248374 181.66
   LOCATION BL8389B1 VOLUME 432195 4248382 181.66
   LOCATION BL8389B2 VOLUME 432191 4248374 181.66
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM BL8389A1 3.4476E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389A2 3.4476E-05 13.716 3.990697674 2.126511628
   SRCPARAM BL8389B1 1.0996E-04 22.86 3.990697674 2.126511628
   SRCPARAM BL8389B2 1.0996E-04 22.86 3.990697674 2.126511628
**
** EO Distribution - Institute, WV
** Point Sources
**  Srcid Srctyp Xs Ys Zs
   LOCATION EODISTFL POINT 431659.87 4248946.05 181.6
```

```
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
   SRCPARAM EODISTFL 4.8949E-03 27.432 866.4833333 8.6868 0.100584
**  Fugitive Sources
**  Railcar Unloading
**  Srcid Srctyp Xs Ys Zs
   LOCATION Rail1 VOLUME 431609 4248856 182.332
   LOCATION Rail2 VOLUME 431616 4248851 182.332
   LOCATION Rail3 VOLUME 431624 4248847 182.332
   LOCATION Rail4 VOLUME 431632 4248843 182.332
   LOCATION Rail5 VOLUME 431640 4248837 182.332
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM Rail1 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail2 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail3 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail4 0.00039555 5.62002432 4.76744186 0.34568573
   SRCPARAM Rail5 0.00039555 5.62002432 4.76744186 0.34568573
**  Pumps/Diked Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION PUMP1 VOLUME 431612 4248893 182.55
   LOCATION PUMP2 VOLUME 431620 4248889 182.55
   LOCATION PUMP3 VOLUME 431630 4248884 182.55
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM PUMP1 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP2 0.0010703 2.4384 5.576744186 0.567069767
   SRCPARAM PUMP3 0.0010703 2.4384 5.576744186 0.567069767
**  Tanks Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION TANKS1 VOLUME 431587 4248907 182.76
   LOCATION TANKS2 VOLUME 431599 4248903 182.76
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM TANKS1 0.00090102 5.4864 5.786046512 0.283534884
   SRCPARAM TANKS2 0.00090102 5.4864 5.786046512 0.283534884
**  Flare Area
**  Srcid Srctyp Xs Ys Zs
   LOCATION FLAREFU1 VOLUME 431658 4248944 182.87
   LOCATION FLAREFU2 VOLUME 431653 4248936 182.87
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM FLAREFU1 2.3689E-04 2.4384 3.688372093 0.283534884
   SRCPARAM FLAREFU2 2.3689E-04 2.4384 3.688372093 0.283534884
**  Area Near Rt. 25
**  Srcid Srctyp Xs Ys Zs
   LOCATION R251 VOLUME 431873 4249163 183.655
   LOCATION R252 VOLUME 431877 4249161 183.655
**  Srcid Vlemis Relhgt Syint Szint
   SRCPARAM R251 5.7806E-05 1.0668 1.8 0.354418605
   SRCPARAM R252 5.7806E-05 1.0668 1.8 0.354418605
**
**  EO DISTRIBUTION Source Groups
**  Point Source Groups
   SRCGROUP EODISTFL EODISTFL
   SRCGROUP EODPOINT EODISTFL
**  Fugitive Source Groups
   SRCGROUP EODRAILF Rail1 Rail2 Rail3 Rail4 Rail5
   SRCGROUP EODPUMPF PUMP1 PUMP2 PUMP3
   SRCGROUP EODTANKF TANKS1 TANKS2
   SRCGROUP EODFLARF FLAREFU1 FLAREFU2
   SRCGROUP EODR25F R251 R252
   SRCGROUP EODFUGI Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODFUGI TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**  EO DISTRIBTION ALL (Point and Fugitive)
```

```
   SRCGROUP EODIST EODISTFL
   SRCGROUP EODIST Rail1 Rail2 Rail3 Rail4 Rail5 PUMP1 PUMP2 PUMP3
   SRCGROUP EODIST TANKS1 TANKS2 FLAREFU1 FLAREFU2 R251 R252
**
** Polyox Source Groups
** Point Source Groups
**
   SRCGROUP 221A 221A
   SRCGROUP 230M 230M
   SRCGROUP 230L 230L
   SRCGROUP 230K 230K
   SRCGROUP 230O 230O
   SRCGROUP 230HH 230HH
   SRCGROUP PPOINT 221A 230M 230L 230K 230O 230HH
**
** Fugitive Source Groups
**
   SRCGROUP POLYVOL1 POLYVOL1
   SRCGROUP PBL8389 BL8389A1 BL8389A2 BL8389B1 BL8389B2
   SRCGROUP PFUGIT POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
**
** POLYOX All Source Groups (Point and Fugitive)
**
   SRCGROUP POLYOX 221A 230M 230L 230K 230O 230HH
   SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```

April Monitoring Event AERMOD Source Input: South Charleston

```
**Ethylene oxide - South Charleston, WV Monitoring Event #4 (Apr 26-27, 2022)
**Oxide Adducts; Triton; Covestro; Chemical Mixing

**************************************************************************
********
**
** Ethylene Oxide - ALL South Charleston, WV Process Areas
**
**************************************************************************
********
** Union Carbide Corporation - Oxide Adducts - Plant ID 03900003
** Oxide Adducts Point Sources
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E704 POINT 439727.0898 4247132.136 181.84
SO LOCATION E705 POINT 439676.2355 4247142.393 182.66
SO LOCATION E706 POINT 439676.2355 4247142.393 182.66
SO LOCATION E707 POINT 439711.3862 4247111.614 184.05
SO LOCATION E708 POINT 439675.5865 4247090.687 184.41
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E704 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E705 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E706 0 9.144 353.15 65.61836 0.024384
SO SRCPARAM E707 0 10.9728 353.15 49.1744 0.024384
SO SRCPARAM E708 0 12.192 353.15 18.53184 0.039624
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION T9120 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9121 POINT 439685.8352 4247106.035 184.07
SO LOCATION T9128 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9129 POINT 439723.4114 4247107.529 183.89
SO LOCATION T9151 POINT 439694.594 4247109.076 184.05
SO LOCATION T9180 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9181 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9182 POINT 439706.8896 4247106.099 184.25
SO LOCATION T9186 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9187 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9223 POINT 439665.6512 4247093.868 184.07
SO LOCATION T9228 POINT 439694.3836 4247104.306 184.13
SO LOCATION T9502 POINT 439720.7695 4247128.078 183.17
SO LOCATION T9504 POINT 439679.6315 4247140.925 183.01
SO LOCATION T9505 POINT 439678.6308 4247135.606 183.28
SO LOCATION T9507 POINT 438886.7718 4136148.361 183.29
SO LOCATION T9509 POINT 439638.2105 4247104.283 183.92
SO LOCATION T9510 POINT 439647.5443 4247102.437 183.85
SO LOCATION T9511 POINT 439649.2697 4247111.191 183.78
SO LOCATION T9512 POINT 439655.838 4247113.361 183.74
SO LOCATION T9553 POINT 439767.2389 4247080.458 183.94
SO LOCATION T9554 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9555 POINT 439773.7782 4247078.745 183.94
SO LOCATION T9556 POINT 439758.9003 4247075.194 183.97
SO LOCATION T9562 POINT 439747.3508 4247084.491 184.17
SO LOCATION T9563 POINT 439744.9134 4247073.967 184.24
SO LOCATION T9565 POINT 439773.6592 4247051.115 184.38
SO LOCATION T9568 POINT 439775.3753 4247058.648 184.32
SO LOCATION T9569 POINT 439794.994 4247053.619 184.22
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SO LOCATION T9612 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9614 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9615 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9616 POINT 439666.5424 4247084.54 184.3
SO LOCATION T9617 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9619 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9622 POINT 439717.9824 4247129.208 183.23
SO LOCATION T9624 POINT 439684.0875 4247141.002 182.55
SO LOCATION T9625 POINT 439681.9445 4247134.804 183.22
SO LOCATION T9627 POINT 439717.7941 4247104.02 184.24
SO LOCATION T9629 POINT 439654.9674 4247137.114 183.34
SO LOCATION T9632 POINT 439805.7771 4246976.749 184.65
SO LOCATION T9634 POINT 439779.5329 4247018.78 184.65
SO LOCATION T9635 POINT 439775.4267 4247007.048 184.61
SO LOCATION T9637 POINT 439801.5726 4247045.469 184.47
SO LOCATION T9640 POINT 439800.0875 4247045.48 184.46
SO LOCATION T9643 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9645 POINT 439793.4584 4247046.861 184.31
SO LOCATION T9646 POINT 439788.6277 4247055.109 184.21
SO LOCATION T9649 POINT 439780.6377 4247049.731 184.31
SO LOCATION T9734 POINT 439644.6571 4247125.207 183.55
SO LOCATION T9736 POINT 439648.584 4247124.623 183.58
SO LOCATION T9738 POINT 439652.1564 4247123.376 183.57
SO LOCATION T9749 POINT 439718.7008 4247108.452 184.03
SO LOCATION T9798 POINT 439726.2124 4247119.936 183.28
SO LOCATION T9812 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9814 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9815 POINT 439696.1627 4247131.924 183.06
SO LOCATION T9822 POINT 439704.6444 4247132.97 182.55
SO LOCATION T9824 POINT 439697.2524 4247137.464 181.85
SO LOCATION T9825 POINT 439696.1627 4247131.924 183.06
**
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
SO SRCPARAM T9120 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9121 1.6952E-06 6.7056 0 0.099579281 0.2032
SO SRCPARAM T9128 0 7.3152 0 0.101393412 0.1524
SO SRCPARAM T9129 0 7.3152 0 0.099579281 0.2032
SO SRCPARAM T9151 0 5.4864 0 0.077032657 0.1016
SO SRCPARAM T9180 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9181 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9182 0 7.62 0 0.099579281 0.2032
SO SRCPARAM T9186 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9187 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9223 0 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9228 0 5.7912 0 0.099579281 0.2032
SO SRCPARAM T9502 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9504 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9505 0 13.716 0 0.099579281 0.2032
SO SRCPARAM T9507 0 5.4864 0 0.099579281 0.2032
SO SRCPARAM T9509 1.6952E-06 9.144 0 0.14591763 0.2032
SO SRCPARAM T9510 1.6952E-06 9.144 0 0.0068962 0.508
SO SRCPARAM T9511 1.6952E-06 9.144 0 0.326648095 0.1016
SO SRCPARAM T9512 1.6952E-06 9.144 0 0.40442145 0.1016
SO SRCPARAM T9553 1.6952E-06 18.8976 0 0.063048267 0.254
SO SRCPARAM T9554 1.6952E-06 18.8976 0 0.101846061 0.2032
SO SRCPARAM T9555 1.6952E-06 18.8976 0 0.154846751 0.2032
SO SRCPARAM T9556 1.6952E-06 18.8976 0 0.106290253 0.2032
SO SRCPARAM T9562 1.6952E-06 9.7536 0 0.022369099 0.508
SO SRCPARAM T9563 1.6952E-06 9.7536 0 0.019672956 0.508
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SO SRCPARAM T9565 1.6952E-06 6.7056 0 0.079639916 0.254
SO SRCPARAM T9568 1.6952E-06 6.7056 0 0.031572279 0.4064
SO SRCPARAM T9569 1.6952E-06 7.62 0 0.044441918 0.2032
SO SRCPARAM T9612 0 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9614 1.6952E-06 13.716 0 0.037034931 0.2032
SO SRCPARAM T9615 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9616 1.6952E-06 18.8976 0 0.144362162 0.2032
SO SRCPARAM T9617 1.6952E-06 18.8976 0 0.110610995 0.1524
SO SRCPARAM T9619 1.6952E-06 19.5072 0 0.132733194 0.2032
SO SRCPARAM T9622 1.6952E-06 13.4112 0 0.099579281 0.2032
SO SRCPARAM T9624 1.6952E-06 13.716 0 0.108142 0.2032
SO SRCPARAM T9625 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9627 1.6952E-06 18.8976 0 0.099579281 0.2032
SO SRCPARAM T9629 1.6952E-06 19.5072 0 0.148139725 0.2032
SO SRCPARAM T9632 0 6.096 0 0.2696143 0.1016
SO SRCPARAM T9634 0 6.4008 0 0.222209588 0.1016
SO SRCPARAM T9635 0 6.4008 0 0.303686437 0.1016
SO SRCPARAM T9637 0 7.62 0 0.123120572 0.1524
SO SRCPARAM T9640 1.6952E-06 7.62 0 0.207395616 0.1524
SO SRCPARAM T9643 1.6952E-06 7.62 0 0.089871433 0.1524
SO SRCPARAM T9645 1.6952E-06 7.62 0 0.121803774 0.1524
SO SRCPARAM T9646 1.6952E-06 7.62 0 0.241467752 0.1016
SO SRCPARAM T9649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM T9734 1.6952E-06 5.4864 0 0.598333059 0.1524
SO SRCPARAM T9736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM T9738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM T9749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM T9798 1.6952E-06 6.4008 0 0.099579281 0.2032
SO SRCPARAM T9812 0 15.24 0 0.099579281 0.2032
SO SRCPARAM T9814 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9815 0 15.24 0 0.099579281 0.2032
SO SRCPARAM T9822 1.6952E-06 15.24 0 0.099579281 0.2032
SO SRCPARAM T9824 1.6952E-06 13.716 0 0.099579281 0.2032
SO SRCPARAM T9825 1.6952E-06 15.24 0 0.099579281 0.2032
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION L001TT1 POINT 439641.71 4247081.619 184.31
SO LOCATION L001TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION L001TT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION L001TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION L001TT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION L001TT6 POINT 439706.0709 4247066.712 184.51

**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**    (g/s) (m) (K) (m/s) (m)
SO SRCPARAM L001TT1 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT2 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT3 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT4 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT5 1.6952E-06 3.6576 0 0.024902038 0.508
SO SRCPARAM L001TT6 1.6952E-06 3.6576 0 0.024902038 0.508
**
** Oxide Adducts Fugitive Sources
** EO Header and Reactor 2
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAHR2 VOLUME 439731 4247128 182.63
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAHR2 4.0192E-04 4.8768 2.872093023 1.984744186
** Reactors 4 and 5
**  Srcid Srctyp Xs Ys Zs
```

```
SO LOCATION OAR451 VOLUME 439674 4247142 183
SO LOCATION OAR452 VOLUME 439672 4247137 183
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR451 0.00031945 8.5344 2.125581395 0.283534884
SO SRCPARAM OAR452 0.00031945 8.5344 2.125581395 0.283534884
** Reactor 6
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR6 VOLUME 439676 4247091 184.41
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR6 0.00012924 7.62 0.972093023 2.126511628
** Reactor 7
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OAR7 VOLUME 439713 4247110 184.27
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OAR7 0.000056660 7.7724 0.739534884 2.197395349
**

** Western Tip of Island - Modeled as a LINE source
**  Srcid Srctyp Xs1 Ys1 Xs2 Ys2 Zs
SO LOCATION OAWTIL LINE 439166 4247407 439631 4247325 181.0666667
**  Srcid Lnemis Relhgt Width (Szint)
SO SRCPARAM OAWTIL 1.44372E-07 0 3.47 3.6576
**
** Lower Island Bridge
**  Srcid Srctyp Xs Ys Zs
SO LOCATION OALIB1 VOLUME 439762 4247237 176.33
SO LOCATION OALIB2 VOLUME 439767 4247235 176.33
SO LOCATION OALIB3 VOLUME 439773 4247233 176.33
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM OALIB1 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB2 0.000047240 2.4384 2.63255814 0.850604651
SO SRCPARAM OALIB3 0.000047240 2.4384 2.63255814 0.850604651
**
********************************************************************************
********
** "TRITON - DOW/UCC - South Charleston  WV - ALL Sources (Point and
Fugitive)"
**
** "TRITON - South Charleston  WV - Point Sources"
**
**  Srcid Srctyp Xs Ys Zs
SO LOCATION E10813 POINT 440122.4085 4247192.775 181.87
SO LOCATION L001 POINT 440069.2126 4247170.089 181.81
SO LOCATION L002 POINT 440087.0074 4247142.992 181.97
SO LOCATION L003 POINT 440147.9003 4247214.002 181.71
SO LOCATION L004 POINT 440086.0755 4247182.17 181.83
SO LOCATION T8313 POINT 440078.357 4247189.773 182.04
SO LOCATION T8314 POINT 440074.9575 4247190.797 181.96
SO LOCATION T8320 POINT 440095.3977 4247190.534 181.87
SO LOCATION T8322 POINT 440084.5831 4247192.945 181.84
SO LOCATION T8323 POINT 440079.3443 4247193.317 181.94
SO LOCATION T8331 POINT 440111.855 4247195.073 181.87
SO LOCATION T8334 POINT 440076.4945 4247197.777 181.8
SO LOCATION T8343 POINT 440081.8735 4247204.506 181.89
SO LOCATION T8344 POINT 440078.4716 4247205.197 181.86
SO LOCATION T8360 POINT 440099.7218 4247208.146 181.85
SO LOCATION T8361 POINT 440094.4023 4247209.406 181.84
SO LOCATION T8363 POINT 440083.586 4247211.595 181.93
SO LOCATION T8364 POINT 440080.0976 4247212.397 181.92
SO LOCATION T8373 POINT 440083.9 4247218.583 181.8
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SO LOCATION T8380 POINT 440101.8901 4247217.784 181.91
SO LOCATION T8381 POINT 440097.2685 4247218.928 181.85
SO LOCATION T8383 POINT 440084.9779 4247222.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440092.5967 4247225.066 181.76
SO LOCATION T8393 POINT 440085.9685 4247226.558 181.77
SO LOCATION T8420 POINT 440130.2721 4247192.938 181.87
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM E10813 1.7325E-03 22.86 313.15 0.402880745 0.2115312
SO SRCPARAM L001 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L002 2.0799E-05 8.2296 333.15 0.038909435 0.2032
SO SRCPARAM L003 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM L004 2.0799E-05 3.6576 333.15 0.024902038 0.508
SO SRCPARAM T8313 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8314 1.1606E-05 14.0208 0 0.708119332 0.0762
SO SRCPARAM T8320 0 10.668 0 0.708119332 0.0762
SO SRCPARAM T8322 0 7.1628 0 0.708119332 0.0762
SO SRCPARAM T8323 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8331 1.1606E-05 6.7056 0 0.708119332 0.0762
SO SRCPARAM T8334 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8343 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.177029833 0.1524
SO SRCPARAM T8360 1.1606E-05 5.7404 0 0.406404575 0.100584
SO SRCPARAM T8361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8363 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8364 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 8.9916 0 0.177029833 0.1524
SO SRCPARAM T8380 0 10.668 0 1.53139994 0.051816
SO SRCPARAM T8381 1.1606E-05 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
SO SRCPARAM T8390 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8391 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM T8392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM T8393 1.1606E-05 9.144 0 0.708119332 0.0762
SO SRCPARAM T8420 1.1606E-05 22.86 0 2.618784513 0.039624
**
** "TRITON - South Charleston  WV - Fugitive Sources"
**
** Triton Header Fugitives - THF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION THF VOLUME 440132 4247228 180.81
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM THF 3.6721E-05 1.8288 1.174418605 0.567069767
**
** Triton Reactor Fugitives - TRF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TRF VOLUME 440122 4247181 181.79
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TRF 0.000095675 9.144 1.909302326 1.417674419
**
** Triton Fugitives Near Covestro - TFNC
**  Srcid Srctyp Xs Ys Zs
SO LOCATION TFNC VOLUME 439987 4247262 180.53
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
**
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** Covestro - South Charleston, WV
** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro EO03 Fugitives - CEO03F
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CEO03F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CEO03F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CEO03F2 2.5830E-04 10.0584 13.02325581 2.410046512

** Covestro PhaseIV Fugitives - CPIVF
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CPIVF1 VOLUME 440271 4247100 181.78
SO LOCATION CPIVF2 VOLUME 440293 4247096 181.78
**  Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CPIVF1 4.4099E-04 6.096 11.1627907 2.126511628
SO SRCPARAM CPIVF2 4.4099E-04 6.096 11.1627907 2.126511628

**  Covestro Point Sources
**  SrcID Srctyp Xs Ys Zs
SO LOCATION 1RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 2RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 3RX POINTHOR 439938.84 4247272.37 180.07
SO LOCATION 789RX POINT 440278.83 4247093.29 181.75
**  SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
**   (g/s) (m) (K) (m/s) (m)
SO SRCPARAM 1RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 2RX 0 14.6304 373.15 10 0.0762
SO SRCPARAM 3RX 0 14.6304 313.15 10 0.0762
SO SRCPARAM 789RX 5.7959E-04 12.8016 313.15 10 0.254
**
** BPIP Parameters
**

SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDHGT 1RX        12.10   12.10   12.10   12.10   12.10   12.10
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDWID 1RX        30.25   31.80   40.39   47.76   53.68   57.96
SO BUILDWID 1RX        60.49   61.17   60.00   57.00   57.50   60.20
SO BUILDWID 1RX        61.07   60.09   57.27   52.72   46.57   39.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO BUILDLEN 1RX        57.00   57.50   60.20   61.07   60.09   57.27
SO BUILDLEN 1RX        52.72   46.57   39.00   30.25   31.80   40.39
SO BUILDLEN 1RX        47.76   53.68   57.96   60.49   61.17   60.00
SO XBADJ    1RX       -60.83  -61.09  -60.36  -57.81  -53.49  -47.55
SO XBADJ    1RX       -40.17  -31.56  -22.00  -11.77   -3.67   -2.83
SO XBADJ    1RX        -1.90   -0.92    0.10    1.11    2.09    3.00
SO XBADJ    1RX         3.82    3.58    0.16   -3.27   -6.59   -9.72
SO XBADJ    1RX       -12.55  -15.01  -17.00  -18.48  -28.13  -37.56
SO XBADJ    1RX       -45.86  -52.76  -58.06  -61.59  -63.26  -63.00
SO YBADJ    1RX        -3.36  -12.23  -17.37  -21.98  -25.92  -29.08
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SO YBADJ     1RX        -31.35   -32.67   -33.00   -32.33   -32.33   -30.26
SO YBADJ     1RX        -27.27   -23.45   -18.92   -13.81    -8.28    -2.50
SO YBADJ     1RX          3.36    12.23    17.37    21.98    25.92    29.08
SO YBADJ     1RX         31.35    32.67    33.00    32.33    32.33    30.26
SO YBADJ     1RX         27.27    23.45    18.92    13.81     8.28     2.50

SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  2RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDWID  2RX         30.25    31.80    40.39    47.76    53.68    57.96
SO BUILDWID  2RX         60.49    61.17    60.00    57.00    57.50    60.20
SO BUILDWID  2RX         61.07    60.09    57.27    52.72    46.57    39.00
SO BUILDWID  2RX         30.25    31.80    40.39    47.76    53.68    57.96
SO BUILDWID  2RX         60.49    61.17    60.00    57.00    57.50    60.20
SO BUILDWID  2RX         61.07    60.09    57.27    52.72    46.57    39.00
SO BUILDLEN  2RX         57.00    57.50    60.20    61.07    60.09    57.27
SO BUILDLEN  2RX         52.72    46.57    39.00    30.25    31.80    40.39
SO BUILDLEN  2RX         47.76    53.68    57.96    60.49    61.17    60.00
SO BUILDLEN  2RX         57.00    57.50    60.20    61.07    60.09    57.27
SO BUILDLEN  2RX         52.72    46.57    39.00    30.25    31.80    40.39
SO BUILDLEN  2RX         47.76    53.68    57.96    60.49    61.17    60.00
SO XBADJ     2RX        -60.83   -61.09   -60.36   -57.81   -53.49   -47.55
SO XBADJ     2RX        -40.17   -31.56   -22.00   -11.77    -3.67    -2.83
SO XBADJ     2RX         -1.90    -0.92     0.10     1.11     2.09     3.00
SO XBADJ     2RX          3.82     3.58     0.16    -3.27    -6.59    -9.72
SO XBADJ     2RX        -12.55   -15.01   -17.00   -18.48   -28.13   -37.56
SO XBADJ     2RX        -45.86   -52.76   -58.06   -61.59   -63.26   -63.00
SO YBADJ     2RX         -3.36   -12.23   -17.37   -21.98   -25.92   -29.08
SO YBADJ     2RX        -31.35   -32.67   -33.00   -32.33   -32.33   -30.26
SO YBADJ     2RX        -27.27   -23.45   -18.92   -13.81    -8.28    -2.50
SO YBADJ     2RX          3.36    12.23    17.37    21.98    25.92    29.08
SO YBADJ     2RX         31.35    32.67    33.00    32.33    32.33    30.26
SO YBADJ     2RX         27.27    23.45    18.92    13.81     8.28     2.50

SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT  3RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDWID  3RX         30.25    31.80    40.39    47.76    53.68    57.96
SO BUILDWID  3RX         60.49    61.17    60.00    57.00    57.50    60.20
SO BUILDWID  3RX         61.07    60.09    57.27    52.72    46.57    39.00
SO BUILDWID  3RX         30.25    31.80    40.39    47.76    53.68    57.96
SO BUILDWID  3RX         60.49    61.17    60.00    57.00    57.50    60.20
SO BUILDWID  3RX         61.07    60.09    57.27    52.72    46.57    39.00
SO BUILDLEN  3RX         57.00    57.50    60.20    61.07    60.09    57.27
SO BUILDLEN  3RX         52.72    46.57    39.00    30.25    31.80    40.39
SO BUILDLEN  3RX         47.76    53.68    57.96    60.49    61.17    60.00
SO BUILDLEN  3RX         57.00    57.50    60.20    61.07    60.09    57.27
SO BUILDLEN  3RX         52.72    46.57    39.00    30.25    31.80    40.39
SO BUILDLEN  3RX         47.76    53.68    57.96    60.49    61.17    60.00
SO XBADJ     3RX        -60.83   -61.09   -60.36   -57.81   -53.49   -47.55
SO XBADJ     3RX        -40.17   -31.56   -22.00   -11.77    -3.67    -2.83
SO XBADJ     3RX         -1.90    -0.92     0.10     1.11     2.09     3.00
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SO XBADJ     3RX          3.82     3.58     0.16    -3.27    -6.59    -9.72
SO XBADJ     3RX        -12.55   -15.01   -17.00   -18.48   -28.13   -37.56
SO XBADJ     3RX        -45.86   -52.76   -58.06   -61.59   -63.26   -63.00
SO YBADJ     3RX         -3.36   -12.23   -17.37   -21.98   -25.92   -29.08
SO YBADJ     3RX        -31.35   -32.67   -33.00   -32.33   -32.33   -30.26
SO YBADJ     3RX        -27.27   -23.45   -18.92   -13.81    -8.28    -2.50
SO YBADJ     3RX          3.36    12.23    17.37    21.98    25.92    29.08
SO YBADJ     3RX         31.35    32.67    33.00    32.33    32.33    30.26
SO YBADJ     3RX         27.27    23.45    18.92    13.81     8.28     2.50

SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDHGT 789RX         12.10    12.10    12.10    12.10    12.10    12.10
SO BUILDWID 789RX         56.31    56.90    58.61    60.06    59.69    57.51
SO BUILDWID 789RX         53.58    48.02    41.00    32.74    31.71    39.76
SO BUILDWID 789RX         46.60    52.02    55.86    58.01    58.39    57.00
SO BUILDWID 789RX         56.31    56.90    58.61    60.06    59.69    57.51
SO BUILDWID 789RX         53.58    48.02    41.00    32.74    31.71    39.76
SO BUILDWID 789RX         46.60    52.02    55.86    58.01    58.39    57.00
SO BUILDLEN 789RX         32.74    31.71    39.76    46.60    52.02    55.86
SO BUILDLEN 789RX         58.01    58.39    57.00    56.31    56.90    58.61
SO BUILDLEN 789RX         60.06    59.69    57.51    53.58    48.02    41.00
SO BUILDLEN 789RX         32.74    31.71    39.76    46.60    52.02    55.86
SO BUILDLEN 789RX         58.01    58.39    57.00    56.31    56.90    58.61
SO BUILDLEN 789RX         60.06    59.69    57.51    53.58    48.02    41.00
SO XBADJ     789RX       -13.68    -9.49   -13.37   -16.84   -19.79   -22.15
SO XBADJ     789RX       -23.83   -24.79   -25.00   -24.45   -23.15   -23.99
SO XBADJ     789RX       -25.63   -26.49   -26.55   -25.80   -24.27   -22.00
SO XBADJ     789RX       -19.06   -22.22   -26.39   -29.76   -32.23   -33.71
SO XBADJ     789RX       -34.17   -33.60   -32.00   -31.86   -33.75   -34.61
SO XBADJ     789RX       -34.43   -33.20   -30.95   -27.77   -23.75   -19.00
SO YBADJ     789RX        -3.71    -5.30    -5.31    -4.40    -3.35    -2.20
SO YBADJ     789RX        -0.98     0.26     1.50     2.69     6.37     6.51
SO YBADJ     789RX         6.46     6.22     5.78     5.17     4.40     3.50
SO YBADJ     789RX         3.71     5.30     5.31     4.40     3.35     2.20
SO YBADJ     789RX         0.98    -0.26    -1.50    -2.69    -6.37    -6.51
SO YBADJ     789RX        -6.46    -6.22    -5.78    -5.17    -4.40    -3.50
**
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**
** "Chemical Mixing Process Area - South Charleston  WV - Ethylene Oxide"
**  Srcid Srctyp Xs Ys Zs
SO LOCATION CHMIX AREA 440262 4246838 176.33
**  Srcid Aremis Relhgt Xinit (Yinit) (Angle) (Szinit)
SO SRCPARAM CHMIX 6.8851E-07 3.047999902 9.99987808
**
**
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********
** SOURCE GROUPS
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********
** Chemical Mixing Source Group
SO SRCGROUP CHMIX CHMIX
**
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********
** Covestro Source Groups
**
** Point Source Groups
**
SO SRCGROUP 1RX 1RX
SO SRCGROUP 2RX 2RX
SO SRCGROUP 3RX 3RX
SO SRCGROUP 789RX 789RX
**
** Covestro All Point Source Group
SO SRCGROUP CPOINT 1RX 2RX 3RX 789RX
**
** Covestro Fugitive Source Groups
SO SRCGROUP CEO03F CEO03F1 CEO03F2
SO SRCGROUP CPIVF CPIVF1 CPIVF2
** Covestro All Fugitive Source Group
SO SRCGROUP CFUGIT CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
** Covestro All Source Group (Point and Fugitive)
SO SRCGROUP COVESTRO 1RX 2RX 3RX 789RX CEO03F1 CEO03F2 CPIVF1 CPIVF2
**
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********
** Triton Source Groups
**
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_All L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_T_All T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton All Point Sources Group
SO SRCGROUP T_POINT E10813
SO SRCGROUP T_POINT L001 L002 L003 L004
SO SRCGROUP T_POINT T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_POINT T8331 T8334 T8343 T8344 T8360
SO SRCGROUP T_POINT T8361 T8363 T8364 T8373 T8380
SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THF THF
SO SRCGROUP TRF TRF
SO SRCGROUP TFNC TFNC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THF TRF TFNC
** TRITON ALL SOURCES POINT AND FUGITIVE
SO SRCGROUP TRITON E10813
SO SRCGROUP TRITON L001 L002 L003 L004
SO SRCGROUP TRITON T8313 T8314 T8320 T8322 T8323
SO SRCGROUP TRITON T8331 T8334 T8343 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THF TRF TFNC
**
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** Oxide Adducts Source Groups
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** Oxide Adducts Point Source Groups
SO SRCGROUP OA_E70XP E704 E705 E706 E707 E708
SO SRCGROUP OA_TALLP T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_TALLP T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_TALLP T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_TALLP T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_TALLP T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_TALLP T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_TALLP T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_TALLP T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_TALLP T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_TALLP T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_LALLP L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts All Point Source Group
SO SRCGROUP OA_POINT E704 E705 E706 E707 E708
SO SRCGROUP OA_POINT T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_POINT T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_POINT T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_POINT T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_POINT T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_POINT T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_POINT T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_POINT T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_POINT T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_POINT T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_POINT L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
** Oxide Adducts Fugitive Source Groups
SO SRCGROUP OAHR2F OAHR2
SO SRCGROUP OAR45F OAR451 OAR452
SO SRCGROUP OAR6F OAR6
SO SRCGROUP OAR7F OAR7
SO SRCGROUP OAWTILF OAWTIL
SO SRCGROUP OALIBF OALIB1 OALIB2 OALIB3
** Oxide Adducts All Fugitive Source Group
SO SRCGROUP OA_FUGIT OAHR2
SO SRCGROUP OA_FUGIT OAR451 OAR452
SO SRCGROUP OA_FUGIT OAR6
SO SRCGROUP OA_FUGIT OAR7
SO SRCGROUP OA_FUGIT OAWTIL
SO SRCGROUP OA_FUGIT OALIB1 OALIB2 OALIB3
** Oxide Adducts - All Sources - Point and Fugitive
SO SRCGROUP OA_ALL E704 E705 E706 E707 E708
SO SRCGROUP OA_ALL T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP OA_ALL T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP OA_ALL T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP OA_ALL T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP OA_ALL T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP OA_ALL T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP OA_ALL T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP OA_ALL T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP OA_ALL T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP OA_ALL T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP OA_ALL L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP OA_ALL OAHR2
SO SRCGROUP OA_ALL OAR451 OAR452
SO SRCGROUP OA_ALL OAR6
SO SRCGROUP OA_ALL OAR7
SO SRCGROUP OA_ALL OAWTIL
SO SRCGROUP OA_ALL OALIB1 OALIB2 OALIB3
```

```
**********
** UCC - South Charlston Source Group - Oxide Adducts, Triton, Chemical
Mixing
** Oxide Adducts
SO SRCGROUP UCC_SC E704 E705 E706 E707 E708
SO SRCGROUP UCC_SC T9120 T9121 T9128 T9129 T9151 T9180
SO SRCGROUP UCC_SC T9181 T9182 T9186 T9187 T9223 T9228
SO SRCGROUP UCC_SC T9502 T9504 T9505 T9507 T9509 T9510
SO SRCGROUP UCC_SC T9511 T9512 T9553 T9554 T9555 T9556
SO SRCGROUP UCC_SC T9562 T9563 T9565 T9568 T9569 T9612
SO SRCGROUP UCC_SC T9614 T9615 T9616 T9617 T9619 T9622
SO SRCGROUP UCC_SC T9624 T9625 T9627 T9629 T9632 T9634
SO SRCGROUP UCC_SC T9635 T9637 T9640 T9643 T9645 T9646
SO SRCGROUP UCC_SC T9649 T9734 T9736 T9738 T9749 T9798
SO SRCGROUP UCC_SC T9812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP UCC_SC L001TT1 L001TT2 L001TT3 L001TT4 L001TT5 L001TT6
SO SRCGROUP UCC_SC OAHR2
SO SRCGROUP UCC_SC OAR451 OAR452
SO SRCGROUP UCC_SC OAR6
SO SRCGROUP UCC_SC OAR7
SO SRCGROUP UCC_SC OAWTIL
SO SRCGROUP UCC_SC OALIB1 OALIB2 OALIB3
** Triton
SO SRCGROUP UCC_SC E10813
SO SRCGROUP UCC_SC L001 L002 L003 L004
SO SRCGROUP UCC_SC T8313 T8314 T8320 T8322 T8323
SO SRCGROUP UCC_SC T8331 T8334 T8343 T8344 T8360
SO SRCGROUP UCC_SC T8361 T8363 T8364 T8373 T8380
SO SRCGROUP UCC_SC T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP UCC_SC THF TRF TFNC
** Chemical Mixing
SO SRCGROUP UCC_SC CHMIX
```

Appendix F AERMOD Input Files

January Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_jan_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Jan_22.SFC
ME PROFFILE INST_Jan_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 01 25 11 22 01 26 12
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EOPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 230O ETO_INST_230O.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```

January Monitoring Event AERMOD Input: South Charleston

```
CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_jan_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Jan_22.SFC
ME PROFFILE SC_Jan_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 01 25 12 22 01 26 13
ME FINISHED
**********************************************************************
** ALL SOURCES
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
**********************************************************************
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
**********************************************************************
** Covestro
OU PLOTFILE PERIOD COVESTRO COVESTRO.plt
OU PLOTFILE PERIOD CPOINT CPOINT.plt
OU PLOTFILE PERIOD CFUGIT CFUGIT.plt
OU PLOTFILE PERIOD 1RX 1RX.plt
OU PLOTFILE PERIOD 2RX 2RX.plt
OU PLOTFILE PERIOD 3RX 3RX.plt
OU PLOTFILE PERIOD 789RX 789RX.plt
OU PLOTFILE PERIOD CEO03F CEO03F.plt
OU PLOTFILE PERIOD CPIVF CPIVF.plt
**********************************************************************
** Triton
OU PLOTFILE PERIOD TRITON TRITON.plt
OU PLOTFILE PERIOD T_POINT T_POINT.plt
OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt
OU PLOTFILE PERIOD TE10813 TE10813.plt
OU PLOTFILE PERIOD T_L_All T_L_All.plt
OU PLOTFILE PERIOD T_T_All T_T_All.plt
OU PLOTFILE PERIOD THF THF.plt
OU PLOTFILE PERIOD TRF TRF.plt
OU PLOTFILE PERIOD TFNC TFNC.plt
```

```
*****************************************************************
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OAHR2F OAHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****************************************************************
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****************************************************************
OU SUMMFILE Summary.sum
OU FINISHED
```

February Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_feb_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Feb_22.SFC
ME PROFFILE INST_Feb_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 02 15 11 22 02 16 11
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EOPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 230O ETO_INST_230O.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```

February Monitoring Event AERMOD Input: South Charleston

```
CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_feb_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Feb_22.SFC
ME PROFFILE SC_Feb_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 02 15 13 22 02 16 13
ME FINISHED
**********************************************************************
** ALL SOURCES
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
**********************************************************************
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
**********************************************************************
** Covestro
OU PLOTFILE PERIOD COVESTRO COVESTRO.plt
OU PLOTFILE PERIOD CPOINT CPOINT.plt
OU PLOTFILE PERIOD CFUGIT CFUGIT.plt
OU PLOTFILE PERIOD 1RX 1RX.plt
OU PLOTFILE PERIOD 2RX 2RX.plt
OU PLOTFILE PERIOD 3RX 3RX.plt
OU PLOTFILE PERIOD 789RX 789RX.plt
OU PLOTFILE PERIOD CEO03F CEO03F.plt
OU PLOTFILE PERIOD CPIVF CPIVF.plt
**********************************************************************
** Triton
OU PLOTFILE PERIOD TRITON TRITON.plt
OU PLOTFILE PERIOD T_POINT T_POINT.plt
OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt
OU PLOTFILE PERIOD TE10813 TE10813.plt
OU PLOTFILE PERIOD T_L_All T_L_All.plt
OU PLOTFILE PERIOD T_T_All T_T_All.plt
OU PLOTFILE PERIOD THF THF.plt
OU PLOTFILE PERIOD TRF TRF.plt
```

```
OU PLOTFILE PERIOD TFNC TFNC.plt
*****************************************************************
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OAHR2F OAHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****************************************************************
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****************************************************************
OU SUMMFILE Summary.sum
OU FINISHED
```

March Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_Mar_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_COMBINED_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE INST_Mar_22.SFC
ME PROFFILE INST_Mar_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 03 23 10 22 03 24 11
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EOPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 230O ETO_INST_230O.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```

March Monitoring Event AERMOD Input: South Charleston

```
CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_mar_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_Mar_22.SFC
ME PROFFILE SC_Mar_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 03 23 12 22 03 24 12
ME FINISHED
**********************************************************************
** ALL SOURCES
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
**********************************************************************
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
**********************************************************************
** Covestro
OU PLOTFILE PERIOD COVESTRO COVESTRO.plt
OU PLOTFILE PERIOD CPOINT CPOINT.plt
OU PLOTFILE PERIOD CFUGIT CFUGIT.plt
OU PLOTFILE PERIOD 1RX 1RX.plt
OU PLOTFILE PERIOD 2RX 2RX.plt
OU PLOTFILE PERIOD 3RX 3RX.plt
OU PLOTFILE PERIOD 789RX 789RX.plt
OU PLOTFILE PERIOD CEO03F CEO03F.plt
OU PLOTFILE PERIOD CPIVF CPIVF.plt
**********************************************************************
** Triton
OU PLOTFILE PERIOD TRITON TRITON.plt
OU PLOTFILE PERIOD T_POINT T_POINT.plt
OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt
OU PLOTFILE PERIOD TE10813 TE10813.plt
OU PLOTFILE PERIOD T_L_All T_L_All.plt
OU PLOTFILE PERIOD T_T_All T_T_All.plt
OU PLOTFILE PERIOD THF THF.plt
OU PLOTFILE PERIOD TRF TRF.plt
OU PLOTFILE PERIOD TFNC TFNC.plt
```

```
*****************************************************************
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OAHR2F OAHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
*****************************************************************
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
*****************************************************************
OU SUMMFILE Summary.sum
OU FINISHED
```

April Monitoring Event AERMOD Input: Institute

```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_APR_2022.INP
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_COMBINED_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE WV_APR_22.SFC
ME PROFFILE WV_APR_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 04 25 11 22 04 26 10
**ME DAYRANGE 1-2
ME FINISHED

OU STARTING
OU PLOTFILE PERIOD ALL ETO_INST_ALL.plt
** EO DIST PLTs
OU PLOTFILE PERIOD EODISTFL ETO_INST_EODISTFL.plt
OU PLOTFILE PERIOD EODPOINT ETO_INST_EOPOINT.plt
OU PLOTFILE PERIOD EODRAILF ETO_INST_EODRAILF.plt
OU PLOTFILE PERIOD EODPUMPF ETO_INST_EODPUMPF.plt
OU PLOTFILE PERIOD EODTANKF ETO_INST_EODTANKSF.plt
OU PLOTFILE PERIOD EODFLARF ETO_INST_EODFLAREF.plt
OU PLOTFILE PERIOD EODR25F ETO_INST_EODR25F.plt
OU PLOTFILE PERIOD EODFUGI ETO_INST_EODFUGITIVE.plt
OU PLOTFILE PERIOD EODIST ETO_INST_EODIST.plt
** POLYOX PLTs
OU PLOTFILE PERIOD 221A ETO_INST_221A.plt
OU PLOTFILE PERIOD 230M ETO_INST_230M.plt
OU PLOTFILE PERIOD 230L ETO_INST_230L.plt
OU PLOTFILE PERIOD 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 230O ETO_INST_230O.plt
OU PLOTFILE PERIOD 230HH ETO_INST_230HH.plt
OU PLOTFILE PERIOD PPOINT ETO_INST_PPOINT.plt
OU PLOTFILE PERIOD POLYVOL1 ETO_INST_POLYVOL1.plt
OU PLOTFILE PERIOD PBL8389 ETO_INST_PBL8389.plt
OU PLOTFILE PERIOD PFUGIT ETO_INST_PFUGITIVE.plt
OU PLOTFILE PERIOD POLYOX ETO_INST_POLOYOX.plt
**
OU SUMMFILE Summary.sum
OU FINISHED
```

April Monitoring Event AERMOD Input: South Charleston

```
CO STARTING
CO TITLEONE Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring
Event
CO TITLETWO Oxide Adducts; Triton; Covestro; Chemical Mixing
**Surface data was redownloaded to correct missing data issues from previous
model run
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO INCLUDED SOUTH_CHARLESTON_APR_2022.inp
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE INCLUDED "ETO_INST_SC_Combined_RECEPTORS_no_onsite_072522.REC"
RE FINISHED

ME STARTING
ME SURFFILE SC_APR_22.SFC
ME PROFFILE SC_APR_22.PFL
ME SURFDATA  13866 2022 "Institute/South Charleston Site, WV"
ME UAIRDATA  53829 2022
ME PROFBASE 180.24 METERS
ME STARTEND 22 04 26 14 22 04 27 13
ME FINISHED
**********************************************************************
** ALL SOURCES
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
**********************************************************************
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
**********************************************************************
** Covestro
OU PLOTFILE PERIOD COVESTRO COVESTRO.plt
OU PLOTFILE PERIOD CPOINT CPOINT.plt
OU PLOTFILE PERIOD CFUGIT CFUGIT.plt
OU PLOTFILE PERIOD 1RX 1RX.plt
OU PLOTFILE PERIOD 2RX 2RX.plt
OU PLOTFILE PERIOD 3RX 3RX.plt
OU PLOTFILE PERIOD 789RX 789RX.plt
OU PLOTFILE PERIOD CEO03F CEO03F.plt
OU PLOTFILE PERIOD CPIVF CPIVF.plt
**********************************************************************
** Triton
OU PLOTFILE PERIOD TRITON TRITON.plt
OU PLOTFILE PERIOD T_POINT T_POINT.plt
OU PLOTFILE PERIOD T_FUGIT T_FUGIT.plt
OU PLOTFILE PERIOD TE10813 TE10813.plt
OU PLOTFILE PERIOD T_L_All T_L_All.plt
OU PLOTFILE PERIOD T_T_All T_T_All.plt
OU PLOTFILE PERIOD THF THF.plt
```

```
OU PLOTFILE PERIOD TRF TRF.plt
OU PLOTFILE PERIOD TFNC TFNC.plt
**************************************************************
** Oxide Adducts
OU PLOTFILE PERIOD OA_ALL OA_ALL.plt
OU PLOTFILE PERIOD OA_POINT OA_POINT.plt
OU PLOTFILE PERIOD OA_FUGIT OA_FUGIT.plt
OU PLOTFILE PERIOD OA_E70XP OA_E70XP.plt
OU PLOTFILE PERIOD OA_TALLP OA_TALLP.plt
OU PLOTFILE PERIOD OA_LALLP OA_LALLP.plt
OU PLOTFILE PERIOD OAHR2F OAHR2F.plt
OU PLOTFILE PERIOD OAR45F OAR45F.plt
OU PLOTFILE PERIOD OAR6F OAR6F.plt
OU PLOTFILE PERIOD OAR7F OAR7F.plt
OU PLOTFILE PERIOD OAWTILF OAWTILF.plt
OU PLOTFILE PERIOD OALIBF OALIBF.plt
**************************************************************
** UCC - South Charleston - Oxide Adducts, Triton, Chemical Mix
OU PLOTFILE PERIOD UCC_SC UCC_SC.plt
**************************************************************
OU SUMMFILE Summary.sum
OU FINISHED
```

Appendix G AERMOD Summary Files

January Monitoring Event AERMOD Summary File: Institute

```
 *** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        08/23/22

*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        11:17:26
                                                                                                             PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * ADJ_U*    - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:     26 Source(s);      21 Source Group(s); and   15537 Receptor(s)

               with:      7 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     19 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                            ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     14.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        11:17:26
                                                                                                            PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                  (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   1 25 11
                                                      AND END DATE: 2022   1 26 12

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                        *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                  (METERS/SEC)

                                        1.54,   3.09,   5.14,   8.23,  10.80,
```

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        11:17:26
                                                                                                            PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   INST_Jan_22.SFC                                                    Met Version:  22112
  Profile file:   INST_Jan_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- --  ------  ------  ------  ------ ------ ------  -------  ----  ----- ------  ------  ---  ------  ------  ------
22 01 25  25 01   -1.5  0.063 -9.000 -9.000 -999.   38.     15.2  0.23   0.90   1.00    0.40    3.    7.9  278.8    7.9
22 01 25  25 02   -8.2  0.123 -9.000 -9.000 -999.  104.     20.0  0.23   0.90   1.00    1.16    2.    7.9  278.6    7.9
22 01 25  25 03   -2.7  0.073 -9.000 -9.000 -999.   48.     12.9  0.23   0.90   1.00    0.63   21.    7.9  277.8    7.9
22 01 25  25 04   -2.7  0.075 -9.000 -9.000 -999.   49.     13.5  0.35   0.90   1.00    0.54   83.    7.9  277.4    7.9
22 01 25  25 05   -5.6  0.101 -9.000 -9.000 -999.   77.     16.3  0.24   0.90   1.00    0.94   96.    7.9  277.3    7.9
22 01 25  25 06  -26.4  0.264 -9.000 -9.000 -999.  325.     76.5  0.14   0.90   1.00    2.77  360.    7.9  274.6    7.9
22 01 25  25 07  -13.4  0.158 -9.000 -9.000 -999.  156.     27.6  0.24   0.90   1.00    1.43   93.    7.9  273.6    7.9
22 01 25  25 08  -17.4  0.181 -9.000 -9.000 -999.  184.     35.9  0.23   0.90   1.00    1.65   26.    7.9  273.8    7.9
22 01 25  25 09   -2.9  0.080 -9.000 -9.000 -999.   60.     15.6  0.23   0.90   0.44    0.76   20.    7.9  274.0    7.9
22 01 25  25 10    0.1  0.070  0.023  0.010    4.    44.    -302.1  0.12   0.90   0.28    0.72  321.    7.9  272.1    7.9
22 01 25  25 11    0.1  0.087  0.026  0.008    6.    62.    -582.5  0.01   0.90   0.22    1.52  293.    7.9  272.1    7.9
22 01 25  25 12    0.1  0.163  0.027  0.005    7.   158.   -3811.5  0.01   0.90   0.20    2.86  293.    7.9  273.1    7.9
22 01 25  25 13    0.1  0.067  0.029  0.009    8.    47.    -264.7  0.01   0.90   0.19    1.16  275.    7.9  273.1    7.9
22 01 25  25 14    0.1  0.107  0.030  0.006    9.    84.   -1087.4  0.12   0.90   0.20    1.12  319.    7.9  273.1    7.9
22 01 25  25 15    0.1  0.090  0.031  0.008   10.    65.    -651.0  0.12   0.90   0.21    0.94  310.    7.9  273.1    7.9
22 01 25  25 16    0.1  0.040  0.032  0.012   11.    20.     -57.1  0.01   0.90   0.25    0.67  281.    7.9  273.1    7.9
22 01 25  25 17   -0.7  0.045 -9.000 -9.000 -999.   23.     11.8  0.12   0.90   0.37    0.49  319.    7.9  273.9    7.9
22 01 25  25 18   -1.2  0.059 -9.000 -9.000 -999.   34.     15.1  0.12   0.90   0.71    0.40  315.    7.9  273.1    7.9
22 01 25  25 19   -0.5  0.043 -9.000 -9.000 -999.   21.     15.6  0.01   0.90   1.00    0.28  279.    7.9  272.1    7.9
22 01 25  25 20   -1.3  0.053 -9.000 -9.000 -999.   30.     10.5  0.02   0.90   1.00    0.58  255.    7.9  271.1    7.9
22 01 25  25 21   -1.7  0.063 -9.000 -9.000 -999.   38.     12.8  0.12   0.90   1.00    0.54  305.    7.9  271.1    7.9
22 01 25  25 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.04   0.90   1.00    0.28  208.    7.9  270.1    7.9
22 01 25  25 23   -0.9  0.046 -9.000 -9.000 -999.   24.     10.4  0.01   0.90   1.00    0.49  290.    7.9  270.1    7.9
22 01 25  25 24   -5.5  0.091 -9.000 -9.000 -999.   66.     12.1  0.02   0.90   1.00    1.48  261.    7.9  279.1    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 01 25 01    7.9 1    3.    0.40   278.8   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        11:17:26
                                                                                                             PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                               ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODISTFL   1ST HIGHEST VALUE IS      0.07311 AT (  432492.99,  4249130.00,   215.50,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.06762 AT (  432392.99,  4249180.00,   215.80,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.06590 AT (  432442.99,  4249130.00,   212.10,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.05256 AT (  432542.99,  4249130.00,   211.80,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04898 AT (  432703.87,  4249110.67,   213.40,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.03463 AT (  432731.66,  4249218.67,   217.30,   325.70,     0.00)  DC
           7TH HIGHEST VALUE IS      0.03275 AT (  432331.66,  4249218.67,   216.70,   325.70,     0.00)  DC
           8TH HIGHEST VALUE IS      0.03058 AT (  432592.99,  4249130.00,   218.00,   325.70,     0.00)  DC
           9TH HIGHEST VALUE IS      0.03025 AT (  433031.66,  4249418.67,   212.30,   327.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.02888 AT (  433731.66,  4249518.67,   215.50,   342.10,     0.00)  DC

EODPOINT   1ST HIGHEST VALUE IS      0.07311 AT (  432492.99,  4249130.00,   215.50,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.06762 AT (  432392.99,  4249180.00,   215.80,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.06590 AT (  432442.99,  4249130.00,   212.10,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.05256 AT (  432542.99,  4249130.00,   211.80,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04898 AT (  432703.87,  4249110.67,   213.40,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.03463 AT (  432731.66,  4249218.67,   217.30,   325.70,     0.00)  DC
           7TH HIGHEST VALUE IS      0.03275 AT (  432331.66,  4249218.67,   216.70,   325.70,     0.00)  DC
           8TH HIGHEST VALUE IS      0.03058 AT (  432592.99,  4249130.00,   218.00,   325.70,     0.00)  DC
           9TH HIGHEST VALUE IS      0.03025 AT (  433031.66,  4249418.67,   212.30,   327.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.02888 AT (  433731.66,  4249518.67,   215.50,   342.10,     0.00)  DC

EODRAILF   1ST HIGHEST VALUE IS      0.09114 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           2ND HIGHEST VALUE IS      0.05866 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           3RD HIGHEST VALUE IS      0.05167 AT (  432431.66,  4249018.67,   187.40,   326.50,     0.00)  DC
           4TH HIGHEST VALUE IS      0.05117 AT (  432392.99,  4249030.00,   186.80,   326.50,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04917 AT (  432442.99,  4249030.00,   188.60,   326.50,     0.00)  DC
           6TH HIGHEST VALUE IS      0.04681 AT (  432292.99,  4249080.00,   186.20,   326.50,     0.00)  DC
           7TH HIGHEST VALUE IS      0.04641 AT (  432492.99,  4249030.00,   190.90,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.04568 AT (  431492.99,  4248330.00,   181.30,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.04555 AT (  432531.66,  4249018.67,   191.00,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.04426 AT (  432379.22,  4249066.23,   186.60,   326.50,     0.00)  DC

EODPUMPF   1ST HIGHEST VALUE IS      0.21236 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           2ND HIGHEST VALUE IS      0.11295 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           3RD HIGHEST VALUE IS      0.09601 AT (  432392.99,  4249030.00,   186.80,   326.50,     0.00)  DC
           4TH HIGHEST VALUE IS      0.09577 AT (  432442.99,  4249030.00,   188.60,   326.50,     0.00)  DC
           5TH HIGHEST VALUE IS      0.08922 AT (  432431.66,  4249018.67,   187.40,   326.50,     0.00)  DC
           6TH HIGHEST VALUE IS      0.08802 AT (  432203.87,  4249110.67,   186.90,   326.50,     0.00)  DC
           7TH HIGHEST VALUE IS      0.08729 AT (  432192.99,  4249130.00,   186.80,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.08705 AT (  432492.99,  4249030.00,   190.90,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.08606 AT (  432142.99,  4249130.00,   186.10,   326.50,     0.00)  DC
          10TH HIGHEST VALUE IS      0.08273 AT (  432231.66,  4249118.67,   186.90,   326.50,     0.00)  DC
```

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
EODTANKF	1ST HIGHEST VALUE IS	0.14593 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06535 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05108 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04965 AT	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04942 AT	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04920 AT	432203.87,	4249110.67,	186.90,	326.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04897 AT	432342.99,	4249080.00,	186.20,	326.50,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04828 AT	432392.99,	4249030.00,	186.80,	326.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04719 AT	432192.99,	4249130.00,	186.80,	326.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04645 AT	432231.66,	4249118.67,	186.90,	326.50,	0.00)	DC
EODFLARF	1ST HIGHEST VALUE IS	0.03037 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02251 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01661 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01650 AT	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01590 AT	432342.99,	4249080.00,	186.20,	326.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01563 AT	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01544 AT	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01532 AT	432392.99,	4249080.00,	194.20,	326.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01468 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01455 AT	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC
EODR25F	1ST HIGHEST VALUE IS	0.06002 AT	431992.99,	4249180.00,	186.60,	326.50,	0.00)	DC
	2ND HIGHEST VALUE IS	0.03671 AT	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.03466 AT	431892.99,	4249230.00,	187.60,	326.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.03279 AT	431842.99,	4249230.00,	186.80,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.03090 AT	432042.99,	4249180.00,	186.60,	326.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02842 AT	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02134 AT	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02119 AT	432031.66,	4249218.67,	190.90,	326.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01889 AT	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01680 AT	432092.99,	4249180.00,	187.60,	326.50,	0.00)	DC
EODFUGI	1ST HIGHEST VALUE IS	0.48137 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	2ND HIGHEST VALUE IS	0.27245 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC
	3RD HIGHEST VALUE IS	0.21250 AT	432392.99,	4249030.00,	186.80,	326.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.20375 AT	432203.87,	4249110.67,	186.90,	326.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.20346 AT	432442.99,	4249030.00,	188.60,	326.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.19701 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.19664 AT	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC
	8TH HIGHEST VALUE IS	0.19659 AT	432431.66,	4249018.67,	187.40,	326.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.19584 AT	432379.22,	4249066.23,	186.60,	326.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.19439 AT	432192.99,	4249130.00,	186.80,	326.50,	0.00)	DC

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        11:17:26
                                                                                                             PAGE   6
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                               ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODIST     1ST HIGHEST VALUE IS      0.48153 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           2ND HIGHEST VALUE IS      0.27306 AT (  432114.34,  4249063.48,   183.18,   326.46,    0.00)  DC
           3RD HIGHEST VALUE IS      0.21376 AT (  432392.99,  4249030.00,   186.80,   326.50,    0.00)  DC
           4TH HIGHEST VALUE IS      0.20485 AT (  432442.99,  4249030.00,   188.60,   326.50,    0.00)  DC
           5TH HIGHEST VALUE IS      0.20422 AT (  432203.87,  4249110.67,   186.90,   326.50,    0.00)  DC
           6TH HIGHEST VALUE IS      0.19802 AT (  432431.66,  4249018.67,   187.40,   326.50,    0.00)  DC
           7TH HIGHEST VALUE IS      0.19784 AT (  432292.99,  4249080.00,   186.20,   326.50,    0.00)  DC
           8TH HIGHEST VALUE IS      0.19695 AT (  432379.22,  4249066.23,   186.60,   326.50,    0.00)  DC
           9TH HIGHEST VALUE IS      0.19689 AT (  432142.99,  4249130.00,   186.10,   326.50,    0.00)  DC
          10TH HIGHEST VALUE IS      0.19474 AT (  432192.99,  4249130.00,   186.80,   326.50,    0.00)  DC

221A       1ST HIGHEST VALUE IS      0.06013 AT (  432592.99,  4249180.00,   229.40,   325.70,    0.00)  DC
           2ND HIGHEST VALUE IS      0.04671 AT (  432431.66,  4249218.67,   229.20,   325.60,    0.00)  DC
           3RD HIGHEST VALUE IS      0.04567 AT (  432542.99,  4249180.00,   226.70,   325.70,    0.00)  DC
           4TH HIGHEST VALUE IS      0.04307 AT (  433031.66,  4249318.67,   230.50,   325.70,    0.00)  DC
           5TH HIGHEST VALUE IS      0.03955 AT (  433231.66,  4249318.67,   231.10,   325.70,    0.00)  DC
           6TH HIGHEST VALUE IS      0.03900 AT (  432731.66,  4249318.67,   231.00,   325.70,    0.00)  DC
           7TH HIGHEST VALUE IS      0.03816 AT (  432442.99,  4249230.00,   233.60,   322.40,    0.00)  DC
           8TH HIGHEST VALUE IS      0.03537 AT (  432492.99,  4249180.00,   225.50,   325.70,    0.00)  DC
           9TH HIGHEST VALUE IS      0.03199 AT (  433331.66,  4249218.67,   227.50,   325.70,    0.00)  DC
          10TH HIGHEST VALUE IS      0.03194 AT (  433031.66,  4249218.67,   225.90,   325.70,    0.00)  DC

230M       1ST HIGHEST VALUE IS      0.14580 AT (  432042.99,  4248030.00,   172.80,   314.60,    0.00)  DC
           2ND HIGHEST VALUE IS      0.14288 AT (  432831.66,  4248318.67,   182.30,   314.60,    0.00)  DC
           3RD HIGHEST VALUE IS      0.13420 AT (  432031.66,  4248018.67,   172.80,   314.60,    0.00)  DC
           4TH HIGHEST VALUE IS      0.11430 AT (  432042.99,  4247980.00,   172.80,   314.60,    0.00)  DC
           5TH HIGHEST VALUE IS      0.10490 AT (  431992.99,  4247930.00,   172.80,   314.60,    0.00)  DC
           6TH HIGHEST VALUE IS      0.09155 AT (  431992.99,  4247880.00,   172.80,   314.60,    0.00)  DC
           7TH HIGHEST VALUE IS      0.09123 AT (  432879.22,  4248316.23,   181.30,   314.60,    0.00)  DC
           8TH HIGHEST VALUE IS      0.08991 AT (  432731.66,  4247818.67,   180.30,   314.60,    0.00)  DC
           9TH HIGHEST VALUE IS      0.08931 AT (  432142.99,  4247880.00,   172.80,   314.60,    0.00)  DC
          10TH HIGHEST VALUE IS      0.08915 AT (  432142.99,  4247930.00,   172.80,   314.60,    0.00)  DC

230L       1ST HIGHEST VALUE IS      0.62965 AT (  432042.99,  4248030.00,   172.80,   314.60,    0.00)  DC
           2ND HIGHEST VALUE IS      0.61776 AT (  432831.66,  4248318.67,   182.30,   314.60,    0.00)  DC
           3RD HIGHEST VALUE IS      0.58211 AT (  432031.66,  4248018.67,   172.80,   314.60,    0.00)  DC
           4TH HIGHEST VALUE IS      0.49893 AT (  432042.99,  4247980.00,   172.80,   314.60,    0.00)  DC
           5TH HIGHEST VALUE IS      0.45725 AT (  431992.99,  4247930.00,   172.80,   314.60,    0.00)  DC
           6TH HIGHEST VALUE IS      0.43644 AT (  432879.22,  4248316.23,   181.30,   314.60,    0.00)  DC
           7TH HIGHEST VALUE IS      0.40137 AT (  432592.99,  4247930.00,   181.10,   314.60,    0.00)  DC
           8TH HIGHEST VALUE IS      0.40081 AT (  431992.99,  4247880.00,   172.80,   314.60,    0.00)  DC
           9TH HIGHEST VALUE IS      0.39968 AT (  432731.66,  4247818.67,   180.30,   314.60,    0.00)  DC
          10TH HIGHEST VALUE IS      0.39389 AT (  432731.66,  4248018.67,   181.90,   314.60,    0.00)  DC
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
230K	1ST HIGHEST VALUE IS	0.13465 AT (	432042.99,	4248030.00,	172.80,	314.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.12821 AT (	432831.66,	4248318.67,	182.30,	314.60, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.12517 AT (	432031.66,	4248018.67,	172.80,	314.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.11709 AT (	432042.99,	4247980.00,	172.80,	314.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.11236 AT (	432092.99,	4248030.00,	174.50,	314.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.10944 AT (	432592.99,	4247930.00,	181.10,	314.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.09741 AT (	432731.66,	4247818.67,	180.30,	314.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.09734 AT (	432131.66,	4248018.67,	175.10,	314.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.09701 AT (	432879.22,	4248316.23,	181.30,	314.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.09700 AT (	431992.99,	4247930.00,	172.80,	314.60, 0.00)	DC	
230O	1ST HIGHEST VALUE IS	0.00405 AT (	432092.99,	4248030.00,	174.50,	314.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00390 AT (	434379.22,	4247816.23,	211.90,	303.80, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00361 AT (	434629.22,	4247566.23,	211.00,	303.80, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00353 AT (	434531.66,	4247718.67,	210.70,	303.80, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00350 AT (	434703.87,	4247610.67,	212.00,	303.80, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00343 AT (	431892.99,	4248130.00,	180.70,	314.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00340 AT (	434431.66,	4247718.67,	214.40,	303.80, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00337 AT (	434431.66,	4247818.67,	210.30,	303.80, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00333 AT (	434119.85,	4248806.86,	212.30,	316.80, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00311 AT (	433703.87,	4248610.67,	209.50,	306.60, 0.00)	DC	
230HH	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	3RD HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	4TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	5TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	6TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	7TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	8TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	9TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,	0.00,	0.00, 0.00)		
PPOINT	1ST HIGHEST VALUE IS	0.91333 AT (	432042.99,	4248030.00,	172.80,	314.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.89193 AT (	432831.66,	4248318.67,	182.30,	314.60, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.84435 AT (	432031.66,	4248018.67,	172.80,	314.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.73354 AT (	432042.99,	4247980.00,	172.80,	314.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.66098 AT (	431992.99,	4247930.00,	172.80,	314.60, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.62765 AT (	432879.22,	4248316.23,	181.30,	314.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.60159 AT (	432592.99,	4247930.00,	181.10,	314.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.58978 AT (	432731.66,	4247818.67,	180.30,	314.60, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.58094 AT (	431992.99,	4247880.00,	172.80,	314.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.56857 AT (	432731.66,	4248018.67,	181.90,	314.60, 0.00)	DC	

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
POLYVOL1	1ST HIGHEST VALUE IS	0.04049 AT (432583.00, 4248215.06, 181.73, 314.57, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.03676 AT (432092.99, 4248030.00, 174.50, 314.60, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.03532 AT (432131.66, 4248018.67, 175.10, 314.60, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.03432 AT (432831.66, 4248518.67, 181.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03198 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03050 AT (432042.99, 4248030.00, 172.80, 314.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03011 AT (432092.99, 4247980.00, 172.80, 314.60, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.02994 AT (431998.21, 4248084.26, 180.40, 314.57, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02899 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.02874 AT (432142.99, 4247980.00, 172.80, 314.60, 0.00)	DC		
PBL8389	1ST HIGHEST VALUE IS	0.00395 AT (432583.00, 4248215.06, 181.73, 314.57, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00317 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00302 AT (433331.66, 4248718.67, 202.10, 325.70, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00295 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00294 AT (432831.66, 4248518.67, 181.80, 325.70, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00278 AT (432879.22, 4248566.23, 182.50, 325.70, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00277 AT (432931.66, 4248318.67, 182.10, 314.60, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00272 AT (433531.66, 4248618.67, 202.00, 306.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00266 AT (433331.66, 4248618.67, 198.00, 325.70, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00258 AT (433431.66, 4248618.67, 198.90, 306.40, 0.00)	DC		
PFUGIT	1ST HIGHEST VALUE IS	0.04445 AT (432583.00, 4248215.06, 181.73, 314.57, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.03871 AT (432092.99, 4248030.00, 174.50, 314.60, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.03736 AT (432131.66, 4248018.67, 175.10, 314.60, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.03726 AT (432831.66, 4248518.67, 181.80, 325.70, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03515 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03209 AT (432092.99, 4247980.00, 172.80, 314.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03202 AT (432042.99, 4248030.00, 172.80, 314.60, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.03194 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.03129 AT (431998.21, 4248084.26, 180.40, 314.57, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.03093 AT (432931.66, 4248518.67, 183.30, 325.70, 0.00)	DC		
POLYOX	1ST HIGHEST VALUE IS	0.94535 AT (432042.99, 4248030.00, 172.80, 314.60, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.92708 AT (432831.66, 4248318.67, 182.30, 314.60, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.87397 AT (432031.66, 4248018.67, 172.80, 314.60, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.76234 AT (432042.99, 4247980.00, 172.80, 314.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.68246 AT (431992.99, 4247930.00, 172.80, 314.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.65959 AT (432879.22, 4248316.23, 181.30, 314.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.61842 AT (432592.99, 4247930.00, 181.10, 314.60, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.60240 AT (432731.66, 4247818.67, 180.30, 314.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.60107 AT (431992.99, 4247880.00, 172.80, 314.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.59459 AT (432931.66, 4248318.67, 182.10, 314.60, 0.00)	DC		

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        11:17:26
                                                                                                            PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

ALL       1ST HIGHEST VALUE IS      0.98214 AT (  432831.66,  4248318.67,   182.30,   314.60,    0.00)  DC
          2ND HIGHEST VALUE IS      0.97722 AT (  432042.99,  4248030.00,   172.80,   314.60,    0.00)  DC
          3RD HIGHEST VALUE IS      0.90550 AT (  432031.66,  4248018.67,   172.80,   314.60,    0.00)  DC
          4TH HIGHEST VALUE IS      0.79192 AT (  432042.99,  4247980.00,   172.80,   314.60,    0.00)  DC
          5TH HIGHEST VALUE IS      0.71616 AT (  432879.22,  4248316.23,   181.30,   314.60,    0.00)  DC
          6TH HIGHEST VALUE IS      0.71092 AT (  431992.99,  4247930.00,   172.80,   314.60,    0.00)  DC
          7TH HIGHEST VALUE IS      0.65714 AT (  432592.99,  4247930.00,   181.10,   314.60,    0.00)  DC
          8TH HIGHEST VALUE IS      0.65266 AT (  432931.66,  4248318.67,   182.10,   314.60,    0.00)  DC
          9TH HIGHEST VALUE IS      0.63583 AT (  432731.66,  4247818.67,   180.30,   314.60,    0.00)  DC
         10TH HIGHEST VALUE IS      0.62769 AT (  431992.99,  4247880.00,   172.80,   314.60,    0.00)  DC


*** RECEPTOR TYPES:  GC = GRIDCART
                     GP = GRIDPOLR
                     DC = DISCCART
                     DP = DISCPOLR
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        11:17:26
                                                                                                            PAGE  10

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           15 Warning Message(s)
A Total of            1 Informational Message(s)

A Total of           26 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            1 Missing Hours Identified (  3.85 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      19        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      29       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      44       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      45       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      46       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      47       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      48       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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January Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        11:49:39
                                                                                                                     PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * Option for Capped & Horiz Stacks Selected With:
        0 Capped Stack(s); and         3 Horizontal Stack(s)
     * ADJ_U*    - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:    119 Source(s);      33 Source Group(s); and   15537 Receptor(s)

               with:    102 POINT(s), including
                          0 POINTCAP(s) and       3 POINTHOR(s)
                 and:     15 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      1 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =     0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     20.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```

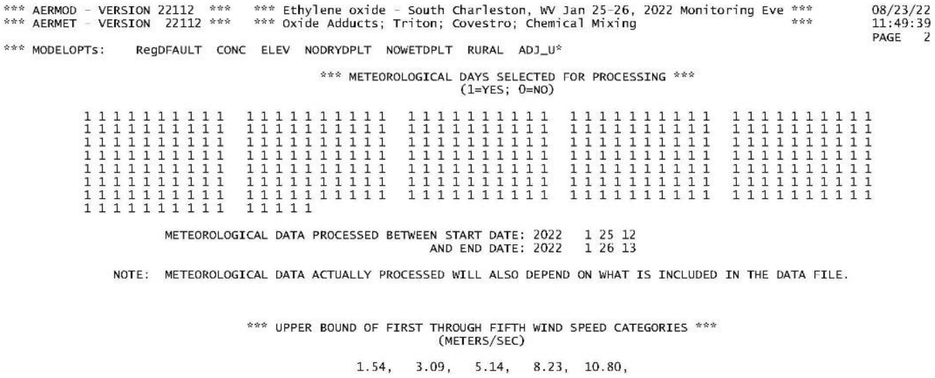

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                     ***        11:49:39
                                                                                                                      PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                           (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   1 25 12
                                                    AND END DATE: 2022   1 26 13

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                         (METERS/SEC)

                                            1.54,   3.09,   5.14,   8.23,  10.80,
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        11:49:39
                                                                                                                    PAGE   3

*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   SC_Jan_22.SFC                                                                  Met Version:  22112
  Profile file:   SC_Jan_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                 Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- --  ------  ------  ------  ------ ------ ------  -------  ----  ----- ------  ------ ----  -----  ------  -----
22 01 25  25 01   -5.9  0.094 -9.000 -9.000 -999.   69.     12.1  0.01   0.45   1.00    1.65  275.   7.9  279.3    7.9
22 01 25  25 02   -3.2  0.069 -9.000 -9.000 -999.   44.      9.0  0.01   0.45   1.00    1.21  271.   7.9  278.8    7.9
22 01 25  25 03  -16.1  0.163 -9.000 -9.000 -999.  159.     29.4  0.01   0.45   1.00    2.77  285.   7.9  278.4    7.9
22 01 25  25 04   -7.4  0.105 -9.000 -9.000  999.   82.     13.6  0.01   0.45   1.00    1.83  270.   7.9  277.9    7.9
22 01 25  25 05   -6.1  0.094 -9.000 -9.000 -999.   69.     11.8  0.01   0.45   1.00    1.74  266.   7.9  277.8    7.9
22 01 25  25 06  -15.9  0.165 -9.000 -9.000 -999.  161.     30.1  0.07   0.45   1.00    2.10  325.   7.9  276.4    7.9
22 01 25  25 07   -3.1  0.074 -9.000 -9.000 -999.   52.     11.3  0.08   0.45   1.00    0.89  333.   7.9  274.3    7.9
22 01 25  25 08   -3.2  0.074 -9.000 -9.000 -999.   48.     11.0  0.07   0.45   1.00    0.94  314.   7.9  273.4    7.9
22 01 25  25 09   -3.6  0.085 -9.000 -9.000 -999.   60.     15.1  0.07   0.45   0.43    1.12  325.   7.9  273.1    7.9
22 01 25  25 10    0.1  0.142  0.023  0.005    4.  129.  -2524.8  0.08   0.45   0.28    1.61  339.   7.9  273.1    7.9
22 01 25  25 11    0.1  0.125  0.026  0.005    6.  106.  -1718.4  0.07   0.45   0.22    1.48  306.   7.9  272.1    7.9
22 01 25  25 12    0.1  0.094  0.027  0.007    7.   69.   -732.8  0.01   0.45   0.20    1.48  294.   7.9  272.1    7.9
22 01 25  25 13    0.1  0.095  0.029  0.007    8.   70.   -754.1  0.07   0.45   0.19    1.12  329.   7.9  273.1    7.9
22 01 25  25 14    0.1  0.098  0.030  0.007    9.   74.   -837.2  0.07   0.45   0.20    1.16  309.   7.9  273.1    7.9
22 01 25  25 15    0.1  0.113  0.031  0.006   10.   92.  -1280.7  0.07   0.45   0.21    1.34  303.   7.9  273.1    7.9
22 01 25  25 16    0.1  0.068  0.032  0.010   11.   43.   -281.4  0.08   0.45   0.25    0.76  342.   7.9  273.1    7.9
22 01 25  25 17   -1.5  0.058 -9.000 -9.000  999.   34.     12.1  0.01   0.45   0.37    1.03  281.   7.9  273.1    7.9
22 01 25  25 18   -1.4  0.059 -9.000 -9.000 -999.   34.     13.0  0.08   0.45   0.72    0.49  356.   7.9  273.1    7.9
22 01 25  25 19   -0.7  0.054 -9.000 -9.000 -999.   30.     18.8  0.08   0.45   1.00    0.28  348.   7.9  272.1    7.9
22 01 25  25 20   -1.0  0.055 -9.000 -9.000 -999.   31.     14.6  0.07   0.45   1.00    0.40  306.   7.9  272.1    7.9
22 01 25  25 21   -2.7  0.069 -9.000 -9.000  999.   44.     10.7  0.07   0.45   1.00    0.85  312.   7.9  271.1    7.9
22 01 25  25 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.01   0.45   1.00    0.36  274.   7.9  270.1    7.9
22 01 25  25 23   -1.8  0.055 -9.000 -9.000 -999.   31.      8.0  0.01   0.45   1.00    0.85  264.   7.9  270.1    7.9
22 01 25  25 24   -0.5  0.045 -9.000 -9.000 -999.   23.     15.0  0.01   0.45   1.00    0.31  268.   7.9  270.1    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 01 25 01    7.9 1  275.    1.65   279.4   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        11:49:39
                                                                                                                     PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

CHMIX      1ST HIGHEST VALUE IS      0.06556 AT (  440277.01,  4246783.81,   183.80,   284.10,     0.00)  DC
           2ND HIGHEST VALUE IS      0.03169 AT (  440277.01,  4246733.81,   183.70,   284.10,     0.00)  DC
           3RD HIGHEST VALUE IS      0.02931 AT (  440315.68,  4246722.48,   184.10,   284.10,     0.00)  DC
           4TH HIGHEST VALUE IS      0.02730 AT (  440377.01,  4246733.81,   183.70,   284.10,     0.00)  DC
           5TH HIGHEST VALUE IS      0.02420 AT (  440327.01,  4246733.81,   184.40,   284.10,     0.00)  DC
           6TH HIGHEST VALUE IS      0.02346 AT (  440415.68,  4246722.48,   183.30,   284.10,     0.00)  DC
           7TH HIGHEST VALUE IS      0.02238 AT (  440327.01,  4246683.81,   183.20,   284.10,     0.00)  DC
           8TH HIGHEST VALUE IS      0.02101 AT (  440277.01,  4246683.81,   182.10,   284.10,     0.00)  DC
           9TH HIGHEST VALUE IS      0.01774 AT (  440427.01,  4246683.81,   183.10,   284.10,     0.00)  DC
          10TH HIGHEST VALUE IS      0.01552 AT (  440327.01,  4246633.81,   184.80,   322.90,     0.00)  DC

1RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

2RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

3RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
PAGE 5

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.04809 AT	440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04793 AT	440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02936 AT	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02466 AT	440327.01,	4246733.81,	184.40,	284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02295 AT	440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02246 AT	440315.68,	4246722.48,	184.10,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02243 AT	440615.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02216 AT	440619.85,	4246806.86,	173.10,	310.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02095 AT	440327.01,	4246683.81,	183.20,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02040 AT	440627.01,	4246783.81,	173.10,	311.20,	0.00)	DC
CPOINT	1ST HIGHEST VALUE IS	0.04809 AT	440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04793 AT	440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02936 AT	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02466 AT	440327.01,	4246733.81,	184.40,	284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02295 AT	440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02246 AT	440315.68,	4246722.48,	184.10,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02243 AT	440615.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02216 AT	440619.85,	4246806.86,	173.10,	310.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02095 AT	440327.01,	4246683.81,	183.20,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02040 AT	440627.01,	4246783.81,	173.10,	311.20,	0.00)	DC
CEO03F	1ST HIGHEST VALUE IS	0.05291 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.04155 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.04123 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.03012 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02842 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02631 AT	440027.01,	4246833.81,	183.70,	183.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02600 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02472 AT	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02458 AT	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02407 AT	440077.01,	4246783.81,	182.10,	284.10,	0.00)	DC
CPIVF	1ST HIGHEST VALUE IS	0.13645 AT	440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.11536 AT	440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.07890 AT	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06122 AT	440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.05858 AT	440415.68,	4246722.48,	183.30,	284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.05806 AT	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.05110 AT	440427.01,	4246683.81,	183.10,	284.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05068 AT	440327.01,	4246733.81,	184.40,	284.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04874 AT	440377.01,	4246683.81,	183.40,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04467 AT	440315.68,	4246722.48,	184.10,	284.10,	0.00)	DC

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
PAGE 6

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.15372	AT (440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.13268	AT (440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.09737	AT (440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.08031	AT (440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.07257	AT (440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.07036	AT (440415.68,	4246722.48,	183.30,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.06921	AT (439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.06253	AT (440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.06129	AT (440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	10TH HIGHEST VALUE IS	0.06113	AT (440427.01,	4246683.81,	183.10,	284.10,	0.00)	DC
COVESTRO	1ST HIGHEST VALUE IS	0.20181	AT (440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.18061	AT (440315.68,	4246922.48,	173.10,	283.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.12672	AT (440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.09552	AT (440377.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.09038	AT (440415.68,	4246722.48,	183.30,	284.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.08511	AT (440327.01,	4246733.81,	184.40,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.08119	AT (440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.07906	AT (440427.01,	4246683.81,	183.10,	284.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.07719	AT (440377.01,	4246683.81,	183.40,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.07631	AT (440315.68,	4246722.48,	184.10,	284.10,	0.00)	DC
TE10813	1ST HIGHEST VALUE IS	0.01229	AT (440227.01,	4246433.81,	204.60,	322.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01188	AT (440215.68,	4246422.48,	204.20,	322.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01127	AT (440227.01,	4246383.81,	204.60,	322.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01105	AT (440277.01,	4246433.81,	207.40,	284.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01078	AT (440213.24,	4246370.04,	204.20,	323.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01035	AT (440177.01,	4246383.81,	208.40,	322.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01011	AT (440227.01,	4246333.81,	208.90,	322.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00971	AT (440277.01,	4246383.81,	209.10,	322.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00953	AT (440177.01,	4246333.81,	204.70,	325.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00913	AT (440277.01,	4246333.81,	209.30,	322.90,	0.00)	DC
T_L_ALL	1ST HIGHEST VALUE IS	0.01285	AT (440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00978	AT (440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00904	AT (440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00831	AT (440127.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00812	AT (440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00743	AT (440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00739	AT (440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00697	AT (440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00609	AT (440119.85,	4247306.86,	173.10,	272.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00589	AT (440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS	0.01575 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01475 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01330 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01174 AT	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01133 AT	440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01084 AT	440227.01,	4246783.81,	183.70,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01003 AT	440177.01,	4246783.81,	183.60,	284.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00964 AT	440227.01,	4246733.81,	183.00,	284.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00937 AT	440277.01,	4246783.81,	183.80,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00917 AT	440215.68,	4246722.48,	181.80,	284.10,	0.00)	DC
T_POINT	1ST HIGHEST VALUE IS	0.02848 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02812 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02413 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02287 AT	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02092 AT	440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01863 AT	440227.01,	4246783.81,	183.70,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01744 AT	440227.01,	4246433.81,	204.60,	322.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01717 AT	440215.68,	4246422.48,	204.20,	322.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01701 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01662 AT	440277.01,	4246783.81,	183.80,	284.10,	0.00)	DC
THF	1ST HIGHEST VALUE IS	0.01126 AT	440127.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00756 AT	440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00655 AT	440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00636 AT	440119.85,	4247306.86,	173.10,	272.80,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00478 AT	440227.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00475 AT	440115.68,	4247322.48,	173.10,	305.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00430 AT	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00410 AT	440277.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00406 AT	440127.01,	4247333.81,	173.10,	305.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00357 AT	440177.01,	4247333.81,	173.10,	272.80,	0.00)	DC
TRF	1ST HIGHEST VALUE IS	0.00961 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00785 AT	440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00715 AT	440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00631 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00617 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00548 AT	440227.01,	4246783.81,	183.70,	284.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00518 AT	440277.01,	4246783.81,	183.80,	284.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00504 AT	440277.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00471 AT	440277.01,	4246733.81,	183.70,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00471 AT	440177.01,	4246783.81,	183.60,	284.10,	0.00)	DC

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 11:49:39
PAGE 8

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS	0.01614 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.01200 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01065 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00933 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00851 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00760 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00617 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00616 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00611 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00608 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
T_FUGIT	1ST HIGHEST VALUE IS	0.02674 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02605 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01937 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01543 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01540 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01465 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01398 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01368 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01305 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01301 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
TRITON	1ST HIGHEST VALUE IS	0.04314 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.04182 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.04016 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.04008 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03685 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03542 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03292 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.03260 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02831 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.02789 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
OA_E70XP	1ST HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	3RD HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	4TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	5TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	6TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	7TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	8TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	9TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        11:49:39
                                                                                                                      PAGE   9
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

OA_TALLP   1ST HIGHEST VALUE IS      0.01038 AT (  439827.01,  4246933.81,   186.10,   186.10,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00800 AT (  439877.01,  4246933.81,   184.90,   184.90,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00584 AT (  439827.01,  4246833.81,   183.30,   183.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00545 AT (  439815.68,  4246822.48,   183.00,   183.00,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00510 AT (  439777.01,  4246833.81,   183.00,   183.00,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00503 AT (  439877.01,  4246833.81,   183.10,   183.10,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00470 AT (  439827.01,  4246783.81,   182.60,   182.60,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00467 AT (  439963.24,  4246870.04,   184.50,   184.50,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00440 AT (  439677.01,  4246933.81,   184.20,   184.20,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00440 AT (  440015.68,  4247022.48,   173.10,   184.90,    0.00)  DC

OA_LALLP   1ST HIGHEST VALUE IS      0.00082 AT (  439677.01,  4246933.81,   184.20,   184.20,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00055 AT (  439713.24,  4246870.04,   183.20,   183.20,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00048 AT (  439827.01,  4246933.81,   186.10,   186.10,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00043 AT (  439727.01,  4246833.81,   183.20,   183.20,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00039 AT (  439877.01,  4246933.81,   184.90,   184.90,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00037 AT (  439715.68,  4246822.48,   183.10,   183.10,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00035 AT (  439627.01,  4246933.81,   183.80,   183.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00034 AT (  439777.01,  4246833.81,   183.00,   183.00,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00032 AT (  439527.01,  4247133.81,   184.50,   184.50,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00031 AT (  439777.01,  4246783.81,   182.10,   182.10,    0.00)  DC

OA_POINT   1ST HIGHEST VALUE IS      0.01086 AT (  439827.01,  4246933.81,   186.10,   186.10,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00838 AT (  439877.01,  4246933.81,   184.90,   184.90,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00604 AT (  439827.01,  4246833.81,   183.30,   183.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00566 AT (  439815.68,  4246822.48,   183.00,   183.00,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00544 AT (  439777.01,  4246833.81,   183.00,   183.00,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00524 AT (  439877.01,  4246833.81,   183.10,   183.10,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00523 AT (  439677.01,  4246933.81,   184.20,   184.20,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00489 AT (  439827.01,  4246783.81,   182.60,   182.60,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00487 AT (  439963.24,  4246870.04,   184.50,   184.50,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00478 AT (  439713.24,  4246870.04,   183.20,   183.20,    0.00)  DC

OAHR2F     1ST HIGHEST VALUE IS      0.11306 AT (  439827.01,  4247133.81,   173.10,   185.00,    0.00)  DC
           2ND HIGHEST VALUE IS      0.07902 AT (  439727.01,  4247183.81,   173.10,   311.00,    0.00)  DC
           3RD HIGHEST VALUE IS      0.07310 AT (  439927.01,  4247083.81,   173.10,   185.00,    0.00)  DC
           4TH HIGHEST VALUE IS      0.07060 AT (  439877.01,  4247133.81,   173.10,   184.90,    0.00)  DC
           5TH HIGHEST VALUE IS      0.05893 AT (  439777.01,  4247183.81,   173.10,   184.40,    0.00)  DC
           6TH HIGHEST VALUE IS      0.05780 AT (  439827.01,  4246933.81,   186.10,   186.10,    0.00)  DC
           7TH HIGHEST VALUE IS      0.05557 AT (  439915.68,  4247122.48,   173.10,   184.60,    0.00)  DC
           8TH HIGHEST VALUE IS      0.05264 AT (  439977.01,  4247083.81,   173.10,   184.70,    0.00)  DC
           9TH HIGHEST VALUE IS      0.04125 AT (  440015.68,  4247022.48,   173.10,   184.90,    0.00)  DC
          10TH HIGHEST VALUE IS      0.04124 AT (  439715.68,  4247222.48,   173.10,   327.10,    0.00)  DC
```

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.05426 AT	439677.01,	4246933.81,	184.20,	184.20,	0.00)	DC
	2ND HIGHEST VALUE IS	0.05250 AT	439777.01,	4246833.81,	183.00,	183.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05232 AT	439713.24,	4246870.04,	183.20,	183.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.05053 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04691 AT	439727.01,	4246833.81,	183.20,	183.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04671 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04670 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04488 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04388 AT	439815.68,	4246822.48,	183.00,	183.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04265 AT	439777.01,	4246783.81,	182.10,	182.10,	0.00)	DC
OAR6F	1ST HIGHEST VALUE IS	0.01540 AT	439677.01,	4246933.81,	184.20,	184.20,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01465 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01406 AT	439713.24,	4246870.04,	183.20,	183.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01292 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01275 AT	439777.01,	4246833.81,	183.00,	183.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01221 AT	439727.01,	4246833.81,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01052 AT	439715.68,	4246822.48,	183.10,	183.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01033 AT	439777.01,	4246783.81,	182.10,	182.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00976 AT	439815.68,	4246822.48,	183.00,	183.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00914 AT	439827.01,	4246833.81,	183.30,	183.30,	0.00)	DC
OAR7F	1ST HIGHEST VALUE IS	0.00620 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00545 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00532 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00506 AT	439777.01,	4246833.81,	183.00,	183.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00500 AT	439827.01,	4246833.81,	183.30,	183.30,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00497 AT	439815.68,	4246822.48,	183.00,	183.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00460 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00453 AT	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00421 AT	439827.01,	4246783.81,	182.60,	182.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00417 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
OAWTILF	1ST HIGHEST VALUE IS	0.21146 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.07213 AT	439477.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.06269 AT	439427.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06049 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.05697 AT	439577.01,	4247233.81,	173.00,	327.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.05571 AT	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.05342 AT	439377.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05110 AT	439527.01,	4247233.81,	173.00,	327.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04577 AT	439515.68,	4247222.48,	173.00,	327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04570 AT	439477.01,	4247233.81,	173.00,	327.10,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.14948	AT (439777.01,	4247183.81,	173.10,	184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.04950	AT (439827.01,	4247133.81,	173.10,	185.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.04767	AT (439715.68,	4247222.48,	173.10,	327.10, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03556	AT (439727.01,	4247183.81,	173.10,	311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.03378	AT (439877.01,	4247133.81,	173.10,	184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.02615	AT (439915.68,	4247122.48,	173.10,	184.60, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02219	AT (439677.01,	4247233.81,	173.10,	327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.01854	AT (439927.01,	4247083.81,	173.10,	185.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.01543	AT (439977.01,	4247083.81,	173.10,	184.70, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.01525	AT (439827.01,	4247333.81,	173.10,	327.10, 0.00)	DC	
OA_FUGIT	1ST HIGHEST VALUE IS	0.28973	AT (439777.01,	4247183.81,	173.10,	184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26195	AT (439619.85,	4247306.86,	180.30,	327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.23279	AT (439827.01,	4247133.81,	173.10,	185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.18619	AT (439727.01,	4247183.81,	173.10,	311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.16369	AT (439877.01,	4247133.81,	173.10,	184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.16312	AT (439715.68,	4247222.48,	173.10,	327.10, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.16104	AT (439927.01,	4247083.81,	173.10,	185.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.14915	AT (439827.01,	4246933.81,	186.10,	186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.13745	AT (439915.68,	4247122.48,	173.10,	184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.13312	AT (439677.01,	4247233.81,	173.10,	327.10, 0.00)	DC	
OA_ALL	1ST HIGHEST VALUE IS	0.29284	AT (439777.01,	4247183.81,	173.10,	184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26354	AT (439619.85,	4247306.86,	180.30,	327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.23746	AT (439827.01,	4247133.81,	173.10,	185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.18931	AT (439727.01,	4247183.81,	173.10,	311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.16764	AT (439877.01,	4247133.81,	173.10,	184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.16565	AT (439927.01,	4247083.81,	173.10,	185.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.16552	AT (439715.68,	4247222.48,	173.10,	327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.16001	AT (439827.01,	4246933.81,	186.10,	186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.14113	AT (439915.68,	4247122.48,	173.10,	184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.14106	AT (439877.01,	4246933.81,	184.90,	184.90, 0.00)	DC	
UCC_SC	1ST HIGHEST VALUE IS	0.30032	AT (439777.01,	4247183.81,	173.10,	184.40, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.26833	AT (439619.85,	4247306.86,	180.30,	327.10, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.24628	AT (439827.01,	4247133.81,	173.10,	185.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.19543	AT (439727.01,	4247183.81,	173.10,	311.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.17886	AT (439877.01,	4247133.81,	173.10,	184.90, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.17785	AT (439927.01,	4247083.81,	173.10,	185.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.17143	AT (439715.68,	4247222.48,	173.10,	327.10, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.16577	AT (439827.01,	4246933.81,	186.10,	186.10, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.15439	AT (439915.68,	4247122.48,	173.10,	184.60, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.14796	AT (439877.01,	4246933.81,	184.90,	184.90, 0.00)	DC	

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        11:49:39
                                                                                                                     PAGE  12
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                                   ** CONC OF OTHER     IN MICROGRAMS/M**3                          **

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

ALL       1ST HIGHEST VALUE IS       0.31951 AT (  439777.01,  4247183.81,   173.10,   184.40,     0.00)  DC
          2ND HIGHEST VALUE IS       0.28090 AT (  439619.85,  4247306.86,   180.30,   327.10,     0.00)  DC
          3RD HIGHEST VALUE IS       0.27111 AT (  440327.01,  4246933.81,   173.10,   183.90,     0.00)  DC
          4TH HIGHEST VALUE IS       0.26789 AT (  439827.01,  4247133.81,   173.10,   185.00,     0.00)  DC
          5TH HIGHEST VALUE IS       0.24805 AT (  440315.68,  4246922.48,   173.10,   283.60,     0.00)  DC
          6TH HIGHEST VALUE IS       0.21946 AT (  439927.01,  4247083.81,   173.10,   185.00,     0.00)  DC
          7TH HIGHEST VALUE IS       0.21427 AT (  439977.01,  4247083.81,   173.10,   184.70,     0.00)  DC
          8TH HIGHEST VALUE IS       0.21139 AT (  439727.01,  4247183.81,   173.10,   311.00,     0.00)  DC
          9TH HIGHEST VALUE IS       0.20636 AT (  440277.01,  4246783.81,   183.80,   284.10,     0.00)  DC
         10TH HIGHEST VALUE IS       0.20483 AT (  439877.01,  4247133.81,   173.10,   184.90,     0.00)  DC


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

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Jan 25-26, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        11:49:39
                                                                                                                    PAGE  13

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of          50 Warning Message(s)
A Total of           1 Informational Message(s)

A Total of          26 Hours Were Processed

A Total of           0 Calm Hours Identified

A Total of           1 Missing Hours Identified (  3.85 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      23        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      24        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      94        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      97        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     100        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     101        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     104        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     105        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     128        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     135        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     136        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     163        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     164        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     165        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     166        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W390     197        LPARM: Aspect ratio (L/W) of LINE source greater than 100       OAWTIL
SO W320     320        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     321        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     322        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      28       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      38       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      55       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      56       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      57       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      60       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      61       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      62       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      63       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      64       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      65       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      66       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      67       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      68       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      69       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      70       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      71       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      74       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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February Monitoring Event AERMOD Summary File: Institute

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                        ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes                  ***        14:19:22
                                                                                                                PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:     26 Source(s);      21 Source Group(s); and   15537 Receptor(s)

               with:      7 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    19 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =    0.000      ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     14.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                            PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                   *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   2 15 11
                                                      AND END DATE: 2022   2 16 11

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                (METERS/SEC)

                                          1.54,   3.09,   5.14,   8.23,  10.80,
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                            PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   INST_Feb_22.SFC                                                    Met Version:  22112
  Profile file:   INST_Feb_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- --  ------  ------  ------  ------ ------ ------ --------  ----  ----- ------  ------  ----  -----  -----  -----
22 02 15  46 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.04   0.43   1.00    0.28  220.   7.9  267.1    7.9
22 02 15  46 02   -0.6  0.050 -9.000 -9.000 -999.   27.     18.0  0.04   0.43   1.00    0.28  232.   7.9  267.1    7.9
22 02 15  46 03   -0.6  0.050 -9.000 -9.000 -999.   27.     18.0  0.04   0.43   1.00    0.28  218.   7.9  266.1    7.9
22 02 15  46 04 -999.0 -9.000 -9.000 -9.000  999.  999. -99999.0  0.24   0.43   1.00    0.76  102.   7.9  266.1    7.9
22 02 15  46 05   -0.6  0.051 -9.000 -9.000 -999.   27.     18.1  0.04   0.43   1.00    0.28  203.   7.9  266.1    7.9
22 02 15  46 06   -1.2  0.063 -9.000 -9.000 -999.   38.     18.3  0.35   0.43   1.00    0.28   64.   7.9  266.1    7.9
22 02 15  46 07   -0.6  0.050 -9.000 -9.000 -999.   27.     18.0  0.04   0.43   1.00    0.28  223.   7.9  266.1    7.9
22 02 15  46 08   -0.8  0.051 -9.000 -9.000 -999.   28.     14.9  0.04   0.43   0.70    0.36  179.   7.9  267.1    7.9
22 02 15  46 09   -4.6  0.164 -9.000 -9.000 -999.  159.     86.2  0.24   0.43   0.35    1.43  112.   7.9  269.1    7.9
22 02 15  46 10    0.1  0.073  0.022  0.014    4.   52.    352.3  0.01   0.43   0.24    1.25  149.   7.9  273.6    7.9
22 02 15  46 11    0.1  0.061  0.025  0.015    5.   36.    201.9  0.01   0.43   0.20    1.03  134.   7.9  274.6    7.9
22 02 15  46 12    0.1  0.061  0.027  0.015    7.   36.    201.8  0.01   0.43   0.19    1.03  125.   7.9  276.9    7.9
22 02 15  46 13    0.1  0.065  0.028  0.015    8.   40.    249.7  0.36   0.43   0.18    0.49   46.   7.9  280.0    7.9
22 02 15  46 14    0.1  0.031  0.029  0.018    9.   13.     26.8  0.01   0.43   0.18    0.49  141.   7.9  281.4    7.9
22 02 15  46 15    0.1  0.111  0.030  0.010   10.   88.  1202.6  0.36   0.43   0.19    0.85   37.   7.9  283.9    7.9
22 02 15  46 16    0.1  0.066  0.031  0.015   10.   41.    255.5  0.01   0.43   0.22    1.12  136.   7.9  284.2    7.9
22 02 15  46 17    0.1  0.113  0.032  0.010   11.   92.   1294.5  0.24   0.43   0.29    0.98  118.   7.9  284.9    7.9
22 02 15  46 18   -5.4  0.106 -9.000 -9.000 -999.   83.     19.5  0.35   0.43   0.51    0.85   84.   7.9  283.8    7.9
22 02 15  46 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.01   0.43   1.00    0.28  142.   7.9  278.3    7.9
22 02 15  46 20   -0.8  0.046 -9.000 -9.000 -999.   24.     11.1  0.01   0.43   1.00    0.45  143.   7.9  276.8    7.9
22 02 15  46 21    2.8  0.075 -9.000 -9.000  999.   49.     13.6  0.36   0.43   1.00    0.54   55.   7.9  275.4    7.9
22 02 15  46 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.35   0.43   1.00    1.03   63.   7.9  276.5    7.9
22 02 15  46 23  -13.5  0.160 -9.000 -9.000 -999.  153.     28.0  0.35   0.43   1.00    1.25   60.   7.9  275.5    7.9
22 02 15  46 24  -13.5  0.159 -9.000 -9.000 -999.  153.     28.0  0.35   0.43   1.00    1.25   76.   7.9  274.9    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 02 15 01    7.9 1  220.    0.09   267.2   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                            PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODISTFL   1ST HIGHEST VALUE IS      0.23045 AT (  431292.99,  4249380.00,   216.30,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.19658 AT (  431442.99,  4249330.00,   215.90,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.18292 AT (  431331.66,  4249418.67,   214.90,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.16083 AT (  431292.99,  4249330.00,   214.30,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.15438 AT (  431342.99,  4249430.00,   214.50,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.15097 AT (  431242.99,  4249330.00,   216.00,   328.30,    0.00)  DC
           7TH HIGHEST VALUE IS      0.10011 AT (  431492.99,  4249330.00,   215.60,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.09909 AT (  431392.99,  4249480.00,   216.00,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.09503 AT (  431392.99,  4249430.00,   213.90,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.09084 AT (  431192.99,  4249330.00,   219.20,   328.30,    0.00)  DC

EODPOINT   1ST HIGHEST VALUE IS      0.23045 AT (  431292.99,  4249380.00,   216.30,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.19658 AT (  431442.99,  4249330.00,   215.90,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.18292 AT (  431331.66,  4249418.67,   214.90,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.16083 AT (  431292.99,  4249330.00,   214.30,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.15438 AT (  431342.99,  4249430.00,   214.50,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.15097 AT (  431242.99,  4249330.00,   216.00,   328.30,    0.00)  DC
           7TH HIGHEST VALUE IS      0.10011 AT (  431492.99,  4249330.00,   215.60,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.09909 AT (  431392.99,  4249480.00,   216.00,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.09503 AT (  431392.99,  4249430.00,   213.90,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.09084 AT (  431192.99,  4249330.00,   219.20,   328.30,    0.00)  DC

EODRAILF   1ST HIGHEST VALUE IS      0.12744 AT (  431292.99,  4249230.00,   184.70,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.12412 AT (  431331.66,  4249218.67,   184.50,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.11314 AT (  431292.99,  4249280.00,   193.20,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.11056 AT (  431342.99,  4249230.00,   184.80,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.10969 AT (  431242.99,  4249230.00,   184.40,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.09731 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           7TH HIGHEST VALUE IS      0.09730 AT (  431231.66,  4249218.67,   183.90,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.08435 AT (  431242.99,  4249280.00,   196.50,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.07995 AT (  431342.99,  4249280.00,   189.50,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.07582 AT (  431192.99,  4249230.00,   183.80,   328.30,    0.00)  DC

EODPUMPF   1ST HIGHEST VALUE IS      0.25801 AT (  431331.66,  4249218.67,   184.50,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.24851 AT (  431292.99,  4249280.00,   193.20,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.24144 AT (  431342.99,  4249230.00,   184.80,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.22689 AT (  431292.99,  4249230.00,   184.70,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.18832 AT (  431342.99,  4249280.00,   189.50,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.15684 AT (  431242.99,  4249280.00,   196.50,   328.30,    0.00)  DC
           7TH HIGHEST VALUE IS      0.15468 AT (  431392.99,  4249230.00,   184.60,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.15165 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           9TH HIGHEST VALUE IS      0.13669 AT (  431242.99,  4249230.00,   184.40,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.11287 AT (  431231.66,  4249318.67,   212.50,   328.30,    0.00)  DC
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        14:19:22
                                                                                                              PAGE   5
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

EODTANKF   1ST HIGHEST VALUE IS      0.14009 AT (  431331.66,  4249218.67,   184.50,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.13376 AT (  431292.99,  4249230.00,   184.70,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.13362 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           4TH HIGHEST VALUE IS      0.12704 AT (  431342.99,  4249230.00,   184.80,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.12465 AT (  431292.99,  4249280.00,   193.20,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.09900 AT (  431242.99,  4249230.00,   184.40,   328.30,    0.00)  DC
           7TH HIGHEST VALUE IS      0.09208 AT (  431342.99,  4249280.00,   189.50,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.08785 AT (  431242.99,  4249280.00,   196.50,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.08452 AT (  431231.66,  4249218.67,   183.90,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.08247 AT (  431392.99,  4249230.00,   184.60,   328.30,    0.00)  DC

EODFLARF   1ST HIGHEST VALUE IS      0.04372 AT (  431431.66,  4249218.67,   184.40,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.04355 AT (  431392.99,  4249230.00,   184.60,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.03929 AT (  431392.99,  4249280.00,   190.70,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.03876 AT (  431342.99,  4249280.00,   189.50,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.03593 AT (  431442.99,  4249230.00,   185.00,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.03223 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           7TH HIGHEST VALUE IS      0.02877 AT (  431342.99,  4249230.00,   184.80,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.02331 AT (  431331.66,  4249318.67,   200.90,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.02307 AT (  431292.99,  4249280.00,   193.20,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.02226 AT (  431331.66,  4249218.67,   184.50,   328.30,    0.00)  DC

EODR25F    1ST HIGHEST VALUE IS      0.10903 AT (  431831.66,  4249218.67,   186.20,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.06185 AT (  431792.99,  4249230.00,   186.20,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.03305 AT (  431842.99,  4249230.00,   186.80,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.02571 AT (  431792.99,  4249280.00,   187.80,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.02534 AT (  431742.99,  4249280.00,   190.90,   328.30,    0.00)  DC
           6TH HIGHEST VALUE IS      0.02465 AT (  431892.99,  4249230.00,   187.60,   326.50,    0.00)  DC
           7TH HIGHEST VALUE IS      0.01973 AT (  431931.66,  4249218.67,   187.70,   326.50,    0.00)  DC
           8TH HIGHEST VALUE IS      0.01815 AT (  431742.99,  4249230.00,   186.00,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.01543 AT (  431731.66,  4249318.67,   204.10,   326.50,    0.00)  DC
          10TH HIGHEST VALUE IS      0.01391 AT (  431942.99,  4249230.00,   187.60,   326.50,    0.00)  DC

EODFUGI    1ST HIGHEST VALUE IS      0.54600 AT (  431331.66,  4249218.67,   184.50,   328.30,    0.00)  DC
           2ND HIGHEST VALUE IS      0.50980 AT (  431292.99,  4249280.00,   193.20,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.50920 AT (  431342.99,  4249230.00,   184.80,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.50541 AT (  431292.99,  4249230.00,   184.70,   328.30,    0.00)  DC
           5TH HIGHEST VALUE IS      0.41821 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           6TH HIGHEST VALUE IS      0.39984 AT (  431342.99,  4249280.00,   189.50,   328.30,    0.00)  DC
           7TH HIGHEST VALUE IS      0.36088 AT (  431242.99,  4249230.00,   184.40,   328.30,    0.00)  DC
           8TH HIGHEST VALUE IS      0.35272 AT (  431392.99,  4249230.00,   184.60,   328.30,    0.00)  DC
           9TH HIGHEST VALUE IS      0.33873 AT (  431242.99,  4249280.00,   196.50,   328.30,    0.00)  DC
          10TH HIGHEST VALUE IS      0.30548 AT (  431231.66,  4249218.67,   183.90,   328.30,    0.00)  DC
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
EODIST	1ST HIGHEST VALUE IS	0.55432 AT	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC
	2ND HIGHEST VALUE IS	0.51875 AT	431292.99,	4249280.00,	193.20,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.51796 AT	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.51317 AT	431292.99,	4249230.00,	184.70,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.41868 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	6TH HIGHEST VALUE IS	0.40753 AT	431342.99,	4249280.00,	189.50,	328.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.36880 AT	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.36065 AT	431392.99,	4249230.00,	184.60,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.35403 AT	431242.99,	4249330.00,	216.00,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.34849 AT	431242.99,	4249280.00,	196.50,	328.30,	0.00)	DC
221A	1ST HIGHEST VALUE IS	0.07425 AT	430992.99,	4249330.00,	233.00,	328.30,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06957 AT	431192.99,	4249380.00,	235.60,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.06433 AT	431042.99,	4249330.00,	229.30,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06146 AT	431142.99,	4249380.00,	239.70,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.06030 AT	430942.99,	4249330.00,	234.70,	328.30,	0.00)	DC
	6TH HIGHEST VALUE IS	0.05318 AT	431092.99,	4249380.00,	243.20,	328.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04546 AT	430892.99,	4249330.00,	234.70,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04202 AT	431042.99,	4249380.00,	247.70,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04181 AT	431242.99,	4249380.00,	231.00,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.03683 AT	431031.66,	4249318.67,	226.10,	328.30,	0.00)	DC
230M	1ST HIGHEST VALUE IS	0.17436 AT	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.16869 AT	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.15126 AT	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.14631 AT	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.14324 AT	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.13575 AT	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.13472 AT	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.12902 AT	431631.66,	4248218.67,	172.80,	317.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.12877 AT	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.12844 AT	431692.99,	4248080.00,	172.80,	314.60,	0.00)	DC
230L	1ST HIGHEST VALUE IS	0.83531 AT	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.77665 AT	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.71611 AT	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.69671 AT	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.68712 AT	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.65635 AT	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.62560 AT	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.60360 AT	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.59660 AT	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.59384 AT	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                            PAGE   7
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

230K      1ST HIGHEST VALUE IS      0.17318 AT (  431792.99,  4248130.00,   172.80,   314.60,     0.00)  DC
          2ND HIGHEST VALUE IS      0.15500 AT (  431842.99,  4248130.00,   173.50,   314.60,     0.00)  DC
          3RD HIGHEST VALUE IS      0.15468 AT (  431731.66,  4248218.67,   180.80,   314.60,     0.00)  DC
          4TH HIGHEST VALUE IS      0.14906 AT (  431692.99,  4248230.00,   180.70,   180.70,     0.00)  DC
          5TH HIGHEST VALUE IS      0.14552 AT (  431831.66,  4248118.67,   172.80,   314.60,     0.00)  DC
          6TH HIGHEST VALUE IS      0.12901 AT (  431742.99,  4248080.00,   172.80,   314.60,     0.00)  DC
          7TH HIGHEST VALUE IS      0.12781 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
          8TH HIGHEST VALUE IS      0.12634 AT (  431592.99,  4248180.00,   172.80,   314.60,     0.00)  DC
          9TH HIGHEST VALUE IS      0.12574 AT (  431642.99,  4248230.00,   176.60,   181.20,     0.00)  DC
         10TH HIGHEST VALUE IS      0.12213 AT (  431642.99,  4248180.00,   172.80,   314.60,     0.00)  DC

230O      1ST HIGHEST VALUE IS      0.01057 AT (  431431.66,  4249318.67,   211.40,   328.30,     0.00)  DC
          2ND HIGHEST VALUE IS      0.00876 AT (  431842.99,  4248130.00,   173.50,   314.60,     0.00)  DC
          3RD HIGHEST VALUE IS      0.00855 AT (  431592.99,  4249330.00,   212.20,   328.30,     0.00)  DC
          4TH HIGHEST VALUE IS      0.00849 AT (  431892.99,  4248130.00,   180.70,   314.60,     0.00)  DC
          5TH HIGHEST VALUE IS      0.00811 AT (  431831.66,  4248118.67,   172.80,   314.60,     0.00)  DC
          6TH HIGHEST VALUE IS      0.00796 AT (  431792.99,  4248130.00,   172.80,   314.60,     0.00)  DC
          7TH HIGHEST VALUE IS      0.00775 AT (  431629.22,  4249316.23,   211.40,   326.50,     0.00)  DC
          8TH HIGHEST VALUE IS      0.00763 AT (  431631.66,  4249318.67,   211.80,   326.50,     0.00)  DC
          9TH HIGHEST VALUE IS      0.00760 AT (  431392.99,  4249430.00,   213.90,   328.30,     0.00)  DC
         10TH HIGHEST VALUE IS      0.00672 AT (  431742.99,  4248080.00,   172.80,   314.60,     0.00)  DC

230HH     1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

PPOINT    1ST HIGHEST VALUE IS      1.19085 AT (  431792.99,  4248130.00,   172.80,   314.60,     0.00)  DC
          2ND HIGHEST VALUE IS      1.07850 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
          3RD HIGHEST VALUE IS      1.02701 AT (  431731.66,  4248218.67,   180.80,   314.60,     0.00)  DC
          4TH HIGHEST VALUE IS      1.00374 AT (  431842.99,  4248130.00,   173.50,   314.60,     0.00)  DC
          5TH HIGHEST VALUE IS      0.98706 AT (  431692.99,  4248230.00,   180.70,   180.70,     0.00)  DC
          6TH HIGHEST VALUE IS      0.94473 AT (  431831.66,  4248118.67,   172.80,   314.60,     0.00)  DC
          7TH HIGHEST VALUE IS      0.86701 AT (  431892.99,  4248080.00,   172.80,   314.60,     0.00)  DC
          8TH HIGHEST VALUE IS      0.86486 AT (  431742.99,  4248080.00,   172.80,   314.60,     0.00)  DC
          9TH HIGHEST VALUE IS      0.85373 AT (  431642.99,  4248230.00,   176.60,   181.20,     0.00)  DC
         10TH HIGHEST VALUE IS      0.83469 AT (  431592.99,  4248180.00,   172.80,   314.60,     0.00)  DC
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
POLYVOL1	1ST HIGHEST VALUE IS	0.03263	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.03159	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.03097	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.03069	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02875	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02836	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02805	431442.99,	4249280.00,	193.20,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02723	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02666	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.02648	431392.99,	4249280.00,	190.70,	328.30,	0.00)	DC
PBL8389	1ST HIGHEST VALUE IS	0.00730	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00723	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00702	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00606	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00599	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00579	431592.99,	4248280.00,	180.90,	317.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00576	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00576	431692.99,	4248180.00,	172.80,	314.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00563	431392.99,	4249330.00,	202.70,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00556	431742.99,	4248130.00,	172.80,	314.60,	0.00)	DC
PFUGIT	1ST HIGHEST VALUE IS	0.03883	431792.99,	4248180.00,	180.70,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	0.03839	431892.99,	4248130.00,	180.70,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	0.03828	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	0.03577	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.03575	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.03370	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.03329	431742.99,	4248180.00,	174.10,	314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.03184	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.03100	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.03081	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC
POLYOX	1ST HIGHEST VALUE IS	1.22184	431792.99,	4248130.00,	172.80,	314.60,	0.00)	DC
	2ND HIGHEST VALUE IS	1.11425	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC
	3RD HIGHEST VALUE IS	1.06528	431731.66,	4248218.67,	180.80,	314.60,	0.00)	DC
	4TH HIGHEST VALUE IS	1.03745	431842.99,	4248130.00,	173.50,	314.60,	0.00)	DC
	5TH HIGHEST VALUE IS	1.02283	431692.99,	4248230.00,	180.70,	180.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.97657	431831.66,	4248118.67,	172.80,	314.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.89499	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.89035	431742.99,	4248080.00,	172.80,	314.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.88454	431642.99,	4248230.00,	176.60,	181.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.86000	431592.99,	4248180.00,	172.80,	314.60,	0.00)	DC

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                            PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

ALL       1ST HIGHEST VALUE IS      1.25158 AT (  431792.99,  4248130.00,   172.80,   314.60,    0.00)  DC
          2ND HIGHEST VALUE IS      1.14332 AT (  431931.66,  4248118.67,   180.80,   314.60,    0.00)  DC
          3RD HIGHEST VALUE IS      1.10425 AT (  431731.66,  4248218.67,   180.80,   314.60,    0.00)  DC
          4TH HIGHEST VALUE IS      1.06669 AT (  431842.99,  4248130.00,   173.50,   314.60,    0.00)  DC
          5TH HIGHEST VALUE IS      1.06322 AT (  431692.99,  4248230.00,   180.70,   180.70,    0.00)  DC
          6TH HIGHEST VALUE IS      1.00523 AT (  431831.66,  4248118.67,   172.80,   314.60,    0.00)  DC
          7TH HIGHEST VALUE IS      0.92371 AT (  431642.99,  4248230.00,   176.60,   181.20,    0.00)  DC
          8TH HIGHEST VALUE IS      0.92107 AT (  431892.99,  4248080.00,   172.80,   314.60,    0.00)  DC
          9TH HIGHEST VALUE IS      0.91806 AT (  431742.99,  4248080.00,   172.80,   314.60,    0.00)  DC
         10TH HIGHEST VALUE IS      0.89398 AT (  431592.99,  4248180.00,   172.80,   314.60,    0.00)  DC


*** RECEPTOR TYPES:  GC = GRIDCART
                     GP = GRIDPOLR
                     DC = DISCCART
                     DP = DISCPOLR
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        14:19:22
                                                                                                           PAGE  10

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           15 Warning Message(s)
A Total of            5 Informational Message(s)

A Total of           25 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            3 Missing Hours Identified ( 12.00 Percent)

CAUTION!!  Number of Missing Hours Exceeds 10 Percent of Total!
           Data May Not Be Acceptable for Regulatory Applications.
           See Section 5.3.2 of "Meteorological Monitoring Guidance
           for Regulatory Modeling Applications" (EPA-454/R-99-005).


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


   ********   WARNING MESSAGES   ********
SO W320      19        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      29       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      44       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      45       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      46       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      47       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      48       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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February Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                     ***        14:56:16
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * Option for Capped & Horiz Stacks Selected With:
       0 Capped Stack(s); and         3 Horizontal Stack(s)
     * ADJ_U*    - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:    119 Source(s);      33 Source Group(s); and   15537 Receptor(s)

               with:    102 POINT(s), including
                          0 POINTCAP(s) and      3 POINTHOR(s)
                and:     15 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      1 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

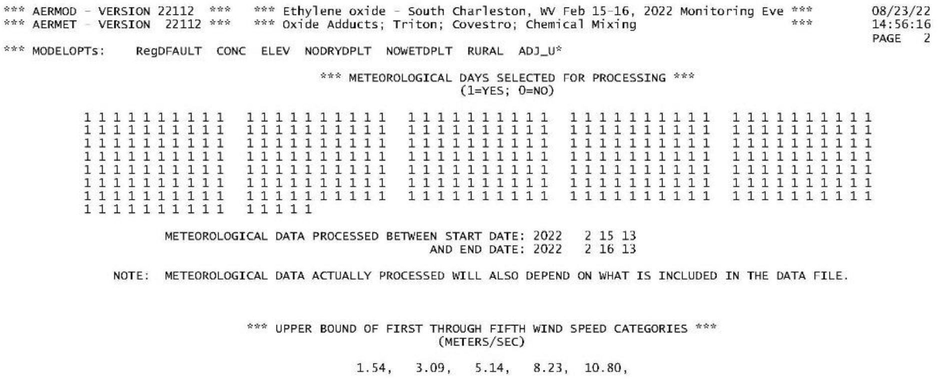
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =     0.000      ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     20.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```



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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        14:56:16
                                                                                                                     PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                     *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                        (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   2 15 13
                                                    AND END DATE: 2022   2 16 13

             NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                       (METERS/SEC)

                                           1.54,   3.09,   5.14,   8.23,  10.80,
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        14:56:16
                                                                                                                      PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   SC_Feb_22.SFC                                                                  Met Version:  22112
  Profile file:   SC_Feb_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                  Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
22 02 15  46 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.07   0.45   1.00    0.36  26.    7.9  278.5    7.9
22 02 15  46 02   -1.7  0.056 -9.000 -9.000 -999.   32.      9.1 0.02   0.45   1.00    0.76  38.    7.9  279.0    7.9
22 02 15  46 03   -2.3  0.061 -9.000 -9.000 -999.   37.      8.8 0.02   0.45   1.00    0.94  38.    7.9  279.1    7.9
22 02 15  46 04 -999.0  9.000 -9.000 -9.000  999.  999. -99999.0 0.02   0.45   1.00    0.98  37.    7.9  279.4    7.9
22 02 15  46 05   -2.3  0.061 -9.000 -9.000 -999.   37.      8.8 0.02   0.45   1.00    0.94  33.    7.9  279.5    7.9
22 02 15  46 06   -3.6  0.074 -9.000 -9.000 -999.   48.      9.8 0.02   0.45   1.00    1.21  50.    7.9  279.8    7.9
22 02 15  46 07   -3.1  0.065 -9.000 -9.000 -999.   40.      8.0 0.01   0.45   1.00    1.30  62.    7.9  279.9    7.9
22 02 15  46 08   -2.4  0.058 -9.000 -9.000 -999.   34.      7.5 0.01   0.45   0.69    1.12  66.    7.9  279.8    7.9
22 02 15  46 09   -1.6  0.087 -9.000 -9.000 -999.   62.     37.2 0.01   0.45   0.35    1.65  68.    7.9  279.0    7.9
22 02 15  46 10    0.1  0.078  0.022  0.014    4.    52.    425.6 0.01   0.45   0.24    1.39  81.    7.9  276.8    7.9
22 02 15  46 11    0.1  0.070  0.025  0.014    5.    45.    312.8 0.01   0.45   0.20    1.25  78.    7.9  273.9    7.9
22 02 15  46 12    0.1  0.066  0.027  0.015    7.    40.    251.9 0.01   0.45   0.19    1.16  76.    7.9  275.5    7.9
22 02 15  46 13    1.3  0.069  0.084  0.015   16.    43.     21.6 0.01   0.45   0.18    1.12  66.    7.9  278.4    7.9
22 02 15  46 14    1.8  0.055  0.104  0.016   23.    31.     -8.5 0.02   0.45   0.18    0.67  46.    7.9  280.5    7.9
22 02 15  46 15    1.1  0.056  0.093  0.016   26.    32.    -14.7 0.02   0.45   0.19    0.72  39.    7.9  282.0    7.9
22 02 15  46 16    0.1  0.045  0.042  0.016   26.    23.    -79.0 0.02   0.45   0.22    0.63  49.    7.9  283.4    7.9
22 02 15  46 17    0.1  0.054  0.042  0.016   27.    30.    137.8 0.01   0.45   0.29    0.94  78.    7.9  284.2    7.9
22 02 15  46 18   -2.8  0.068 -9.000 -9.000 -999.   42.     10.1 0.02   0.45   0.52    1.12  50.    7.9  283.9    7.9
22 02 15  46 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.01   0.45   1.00    0.72  75.    7.9  281.0    7.9
22 02 15  46 20   -1.7  0.052 -9.000 -9.000 -999.   29.      7.5 0.01   0.45   1.00    0.89  64.    7.9  278.1    7.9
22 02 15  46 21   -4.7  0.084 -9.000 -9.000  999.   58.     11.1 0.02   0.45   1.00    1.39  59.    7.9  277.8    7.9
22 02 15  46 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.02   0.45   1.00    2.28  51.    7.9  276.9    7.9
22 02 15  46 23  -14.8  0.151 -9.000 -9.000 -999.  141.     25.1 0.02   0.45   1.00    2.41  49.    7.9  276.0    7.9
22 02 15  46 24  -13.7  0.145 -9.000 -9.000 -999.  133.     23.1 0.02   0.45   1.00    2.32  52.    7.9  275.4    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 02 15 01    7.9 1   26.    0.36   278.6   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
PAGE 4

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CHMIX	1ST HIGHEST VALUE IS	0.07384 AT (440177.01, 4246783.81, 183.60, 284.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.04901 AT (440127.01, 4246783.81, 183.20, 284.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.04871 AT (440127.01, 4246733.81, 181.10, 284.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.04335 AT (440115.68, 4246722.48, 180.20, 284.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03819 AT (440077.01, 4246733.81, 181.70, 284.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03268 AT (440077.01, 4246783.81, 182.10, 284.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.02795 AT (440077.01, 4246683.81, 180.30, 322.90, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.02763 AT (440027.01, 4246733.81, 183.10, 284.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02746 AT (440119.85, 4246806.86, 183.40, 183.40, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.02639 AT (440015.68, 4246722.48, 182.70, 284.10, 0.00)	DC		
1RX	1ST HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	3RD HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	4TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	5TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	6TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	7TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	8TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	9TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
2RX	1ST HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	3RD HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	4TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	5TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	6TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	7TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	8TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	9TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
3RX	1ST HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	3RD HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	4TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	5TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	6TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	7TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	8TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	9TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			
	10TH HIGHEST VALUE IS	0.00000 AT (0.00, 0.00, 0.00, 0.00, 0.00)			

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
PAGE 5

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.12533 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.11946 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.09370 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.07869 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.06692 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.06124 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.06040 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.05907 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.05846 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.05419 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
CPOINT	1ST HIGHEST VALUE IS	0.12533 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.11946 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.09370 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.07869 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.06692 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.06124 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.06040 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.05907 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.05846 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.05419 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
CEO03F	1ST HIGHEST VALUE IS	0.06503 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.05147 AT	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.05040 AT	439515.68,	4246922.48,	183.10,	183.10,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.04887 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.04880 AT	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.04795 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.04386 AT	439463.24,	4246870.04,	182.70,	182.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.04354 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.04205 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.04172 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC	
CPIVF	1ST HIGHEST VALUE IS	0.30034 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.29454 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.19448 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.19413 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.17127 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.14737 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.14545 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.13842 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.13572 AT	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.13516 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 14:56:16
PAGE 6

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.30180 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.29586 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.19574 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.19571 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.17245 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.14873 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.14660 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.13959 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.13692 AT	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.13687 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
COVESTRO	1ST HIGHEST VALUE IS	0.42713 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.41532 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.28940 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.27443 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.23936 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.20780 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.20701 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.19805 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.19519 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.19106 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
TE10813	1ST HIGHEST VALUE IS	0.01579 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.01553 AT	439777.01,	4246833.81,	183.00,	183.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.01545 AT	439727.01,	4246833.81,	183.20,	183.20,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.01538 AT	439715.68,	4246822.48,	183.10,	183.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.01521 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.01511 AT	439677.01,	4246783.81,	182.70,	182.70,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.01497 AT	439727.01,	4246783.81,	182.60,	182.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.01469 AT	439627.01,	4246733.81,	182.40,	182.40,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.01459 AT	439615.68,	4246722.48,	182.30,	182.30,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.01454 AT	439627.01,	4246783.81,	182.40,	182.40,	0.00)	DC	
T_L_ALL	1ST HIGHEST VALUE IS	0.03847 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.03747 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.03078 AT	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.01288 AT	439677.01,	4246933.81,	184.20,	184.20,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.01282 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.01268 AT	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.01177 AT	439713.24,	4246870.04,	183.20,	183.20,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.01135 AT	439627.01,	4246933.81,	183.80,	183.80,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.01081 AT	439615.68,	4246922.48,	183.70,	183.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.01073 AT	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC	

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS	0.02885 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02584 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.02275 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01862 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01857 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01597 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01576 AT (439615.68, 4246922.48, 183.70, 183.70, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01562 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01555 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01545 AT (439577.01, 4246833.81, 182.80, 182.80, 0.00)	DC		
T_POINT	1ST HIGHEST VALUE IS	0.07378 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.06738 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.06124 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.04185 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.04155 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.04145 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03884 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.03851 AT (439677.01, 4246833.81, 182.80, 182.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.03810 AT (439615.68, 4246822.48, 182.60, 182.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.03724 AT (439619.85, 4246806.86, 182.60, 182.60, 0.00)	DC		
THF	1ST HIGHEST VALUE IS	0.01627 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.01444 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01323 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01163 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00805 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00635 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00512 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00459 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00438 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00438 AT (439477.01, 4246983.81, 184.70, 184.70, 0.00)	DC		
TRF	1ST HIGHEST VALUE IS	0.01643 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.01207 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01177 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01052 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00950 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00940 AT (439677.01, 4246833.81, 182.80, 182.80, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00915 AT (439627.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00890 AT (439615.68, 4246822.48, 182.60, 182.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00868 AT (439619.85, 4246806.86, 182.60, 182.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00865 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00)	DC		

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS	0.02353 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02218 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01227 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00811 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00738 AT (439427.01, 4247033.81, 185.80, 185.80, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00737 AT (439477.01, 4247083.81, 184.60, 184.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00732 AT (439477.01, 4247033.81, 184.90, 184.90, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00702 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00701 AT (439415.68, 4247022.48, 185.80, 185.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00678 AT (439577.01, 4246933.81, 183.70, 183.70, 0.00)	DC		
T_FUGIT	1ST HIGHEST VALUE IS	0.03372 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02870 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.02709 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.02621 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.02508 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.02479 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01876 AT (439577.01, 4246933.81, 183.70, 183.70, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01863 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01801 AT (439615.68, 4246922.48, 183.70, 183.70, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01789 AT (439527.01, 4246933.81, 183.60, 183.60, 0.00)	DC		
TRITON	1ST HIGHEST VALUE IS	0.10088 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.09608 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.08632 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.06207 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.05916 AT (439677.01, 4246933.81, 184.20, 184.20, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.05828 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.05820 AT (439827.01, 4246933.81, 186.10, 186.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.05737 AT (439713.24, 4246870.04, 183.20, 183.20, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.05495 AT (439627.01, 4246933.81, 183.80, 183.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.05360 AT (439615.68, 4246922.48, 183.70, 183.70, 0.00)	DC		
OA_E70XP	1ST HIGHEST VALUE IS	0.43980 AT (439327.01, 4246833.81, 182.70, 182.70, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.42959 AT (439315.68, 4246822.48, 182.30, 182.30, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.40961 AT (439277.01, 4246783.81, 181.90, 181.90, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.40351 AT (439477.01, 4246933.81, 183.40, 183.40, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.39684 AT (439227.01, 4246783.81, 182.40, 182.40, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.39581 AT (439415.68, 4246922.48, 183.20, 183.20, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.39480 AT (439377.01, 4246833.81, 182.30, 182.30, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.38676 AT (439277.01, 4246833.81, 182.50, 182.50, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.38560 AT (439227.01, 4246733.81, 182.10, 182.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.38367 AT (439427.01, 4246933.81, 183.50, 183.50, 0.00)	DC		

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve *** 08/23/22
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OA_TALLP	1ST HIGHEST VALUE IS	0.01397 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01241 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01236 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01189 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01133 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01086 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01078 AT	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01066 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01024 AT	439515.68,	4246922.48,	183.10,	183.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00918 AT	439327.01,	4246833.81,	182.70,	182.70,	0.00)	DC
OA_LALLP	1ST HIGHEST VALUE IS	0.00256 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00187 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00164 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00151 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00150 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00136 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00126 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00121 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00105 AT	439327.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00096 AT	439315.68,	4246922.48,	183.20,	183.20,	0.00)	DC
OA_POINT	1ST HIGHEST VALUE IS	0.44972 AT	439327.01,	4246833.81,	182.70,	182.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.43903 AT	439315.68,	4246822.48,	182.30,	182.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.41788 AT	439277.01,	4246783.81,	181.90,	181.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.41741 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.40907 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.40502 AT	439227.01,	4246783.81,	182.40,	182.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.40412 AT	439377.01,	4246833.81,	182.30,	182.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.39754 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.39607 AT	439277.01,	4246833.81,	182.50,	182.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.39279 AT	439227.01,	4246733.81,	182.10,	182.10,	0.00)	DC
OAHR2F	1ST HIGHEST VALUE IS	0.13472 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.12755 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.10961 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.10895 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.10076 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.09472 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.08957 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.08920 AT	439415.68,	4247022.48,	185.80,	185.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.08587 AT	439427.01,	4247033.81,	185.80,	185.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.08583 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.13043 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.12375 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.12329 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.11165 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.10685 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.10118 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.09933 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.09658 AT	439327.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.09580 AT	439415.68,	4247022.48,	185.80,	185.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.09501 AT	439427.01,	4247033.81,	185.80,	185.80,	0.00)	DC
OAR6F	1ST HIGHEST VALUE IS	0.03698 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.03107 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02967 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02804 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.02793 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02404 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02392 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02166 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02039 AT	439327.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01975 AT	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC
OAR7F	1ST HIGHEST VALUE IS	0.01367 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01240 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01124 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01084 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01064 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00997 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00975 AT	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00929 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00892 AT	439515.68,	4246922.48,	183.10,	183.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00883 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00)	DC
OAWTILF	1ST HIGHEST VALUE IS	0.07777 AT	439227.01,	4247333.81,	173.00,	327.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.07324 AT	439177.01,	4247333.81,	173.00,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.06925 AT	439127.01,	4247333.81,	173.00,	327.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06906 AT	439477.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.06895 AT	439427.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.06717 AT	439127.01,	4247283.81,	183.10,	311.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.06645 AT	439377.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.06586 AT	439177.01,	4247283.81,	177.90,	327.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.06424 AT	439115.68,	4247322.48,	173.00,	327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.06411 AT	439077.01,	4247283.81,	183.50,	311.30,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.27358 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00) DC	
	2ND HIGHEST VALUE IS	0.11838 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00) DC	
	3RD HIGHEST VALUE IS	0.04874 AT	439527.01,	4247133.81,	184.50,	184.50,	0.00) DC	
	4TH HIGHEST VALUE IS	0.04421 AT	439515.68,	4247122.48,	184.70,	184.70,	0.00) DC	
	5TH HIGHEST VALUE IS	0.03723 AT	439463.24,	4247120.04,	184.60,	184.60,	0.00) DC	
	6TH HIGHEST VALUE IS	0.03608 AT	439477.01,	4247133.81,	184.60,	184.60,	0.00) DC	
	7TH HIGHEST VALUE IS	0.03311 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00) DC	
	8TH HIGHEST VALUE IS	0.03289 AT	439477.01,	4247083.81,	184.60,	184.60,	0.00) DC	
	9TH HIGHEST VALUE IS	0.03072 AT	439427.01,	4247083.81,	185.10,	185.10,	0.00) DC	
	10TH HIGHEST VALUE IS	0.02712 AT	439527.01,	4247183.81,	177.00,	311.30,	0.00) DC	
OA_FUGIT	1ST HIGHEST VALUE IS	0.34019 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00) DC	
	2ND HIGHEST VALUE IS	0.31784 AT	439477.01,	4247033.81,	184.90,	184.90,	0.00) DC	
	3RD HIGHEST VALUE IS	0.30650 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00) DC	
	4TH HIGHEST VALUE IS	0.29900 AT	439427.01,	4246983.81,	184.50,	184.50,	0.00) DC	
	5TH HIGHEST VALUE IS	0.26801 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00) DC	
	6TH HIGHEST VALUE IS	0.25306 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00) DC	
	7TH HIGHEST VALUE IS	0.25292 AT	439377.01,	4246933.81,	183.40,	183.40,	0.00) DC	
	8TH HIGHEST VALUE IS	0.24205 AT	439377.01,	4246983.81,	184.30,	184.30,	0.00) DC	
	9TH HIGHEST VALUE IS	0.23410 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00) DC	
	10TH HIGHEST VALUE IS	0.23212 AT	439415.68,	4247022.48,	185.80,	185.80,	0.00) DC	
OA_ALL	1ST HIGHEST VALUE IS	0.66555 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00) DC	
	2ND HIGHEST VALUE IS	0.66213 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00) DC	
	3RD HIGHEST VALUE IS	0.65151 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00) DC	
	4TH HIGHEST VALUE IS	0.64036 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00) DC	
	5TH HIGHEST VALUE IS	0.61808 AT	439327.01,	4246833.81,	182.70,	182.70,	0.00) DC	
	6TH HIGHEST VALUE IS	0.59828 AT	439315.68,	4246822.48,	182.30,	182.30,	0.00) DC	
	7TH HIGHEST VALUE IS	0.56581 AT	439277.01,	4246833.81,	182.50,	182.50,	0.00) DC	
	8TH HIGHEST VALUE IS	0.55402 AT	439277.01,	4246783.81,	181.90,	181.90,	0.00) DC	
	9TH HIGHEST VALUE IS	0.54759 AT	439227.01,	4246783.81,	182.40,	182.40,	0.00) DC	
	10TH HIGHEST VALUE IS	0.54524 AT	439377.01,	4246833.81,	182.30,	182.30,	0.00) DC	
UCC_SC	1ST HIGHEST VALUE IS	0.70751 AT	439427.01,	4246933.81,	183.50,	183.50,	0.00) DC	
	2ND HIGHEST VALUE IS	0.70372 AT	439415.68,	4246922.48,	183.20,	183.20,	0.00) DC	
	3RD HIGHEST VALUE IS	0.69734 AT	439477.01,	4246933.81,	183.40,	183.40,	0.00) DC	
	4TH HIGHEST VALUE IS	0.68189 AT	439477.01,	4246983.81,	184.70,	184.70,	0.00) DC	
	5TH HIGHEST VALUE IS	0.65312 AT	439327.01,	4246833.81,	182.70,	182.70,	0.00) DC	
	6TH HIGHEST VALUE IS	0.63257 AT	439315.68,	4246822.48,	182.30,	182.30,	0.00) DC	
	7TH HIGHEST VALUE IS	0.59970 AT	439277.01,	4246833.81,	182.50,	182.50,	0.00) DC	
	8TH HIGHEST VALUE IS	0.58538 AT	439277.01,	4246783.81,	181.90,	181.90,	0.00) DC	
	9TH HIGHEST VALUE IS	0.58190 AT	439377.01,	4246833.81,	182.30,	182.30,	0.00) DC	
	10TH HIGHEST VALUE IS	0.57797 AT	439227.01,	4246783.81,	182.40,	182.40,	0.00) DC	

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        14:56:16
                                                                                                                     PAGE  12
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                   *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                                  ** CONC OF OTHER     IN MICROGRAMS/M**3                          **

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

ALL       1ST HIGHEST VALUE IS       0.77244 AT (  439477.01,  4246933.81,   183.40,   183.40,     0.00)  DC
          2ND HIGHEST VALUE IS       0.77119 AT (  439427.01,  4246933.81,   183.50,   183.50,     0.00)  DC
          3RD HIGHEST VALUE IS       0.76950 AT (  439415.68,  4246922.48,   183.20,   183.20,     0.00)  DC
          4TH HIGHEST VALUE IS       0.73751 AT (  439477.01,  4246983.81,   184.70,   184.70,     0.00)  DC
          5TH HIGHEST VALUE IS       0.73162 AT (  439327.01,  4246833.81,   182.70,   182.70,     0.00)  DC
          6TH HIGHEST VALUE IS       0.71309 AT (  439315.68,  4246822.48,   182.30,   182.30,     0.00)  DC
          7TH HIGHEST VALUE IS       0.67320 AT (  439377.01,  4246833.81,   182.30,   182.30,     0.00)  DC
          8TH HIGHEST VALUE IS       0.67039 AT (  439277.01,  4246783.81,   181.90,   181.90,     0.00)  DC
          9TH HIGHEST VALUE IS       0.66748 AT (  439277.01,  4246833.81,   182.50,   182.50,     0.00)  DC
         10TH HIGHEST VALUE IS       0.65184 AT (  439227.01,  4246783.81,   182.40,   182.40,     0.00)  DC


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

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        14:56:16
                                                                                                                    PAGE  13

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           45 Warning Message(s)
A Total of            5 Informational Message(s)

A Total of           25 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            3 Missing Hours Identified ( 12.00 Percent)

CAUTION!!  Number of Missing Hours Exceeds 10 Percent of Total!
           Data May Not Be Acceptable for Regulatory Applications.
           See Section 5.3.2 of "Meteorological Monitoring Guidance
           for Regulatory Modeling Applications" (EPA-454/R-99-005).


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


   ********   WARNING MESSAGES   ********
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      94        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     122        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     135        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     163        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     164        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     165        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     166        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W390     197        LPARM: Aspect ratio (L/W) of LINE source greater than 100       OAWTIL
SO W320     263        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     267        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     269        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     320        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     321        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     322        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      28       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      38       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      55       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      56       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      57       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      60       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      61       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      62       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      63       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      64       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      65       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      66       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      67       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      68       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      69       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      70       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      71       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      74       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
```

March Monitoring Event AERMOD Summary File: Institute

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        08:17:44
                                                                                                             PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:     26 Source(s);      21 Source Group(s); and   15537 Receptor(s)

               with:      7 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    19 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

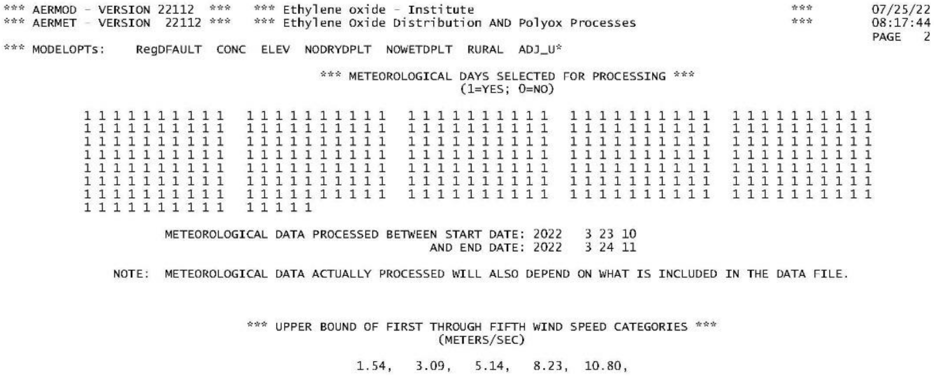
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =    0.000      ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     14.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```



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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        08:17:44
                                                                                                             PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                       (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                      METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   3 23 10
                                                          AND END DATE: 2022   3 24 11

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                           (METERS/SEC)

                                              1.54,   3.09,   5.14,   8.23,  10.80,
```

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        08:17:44
                                                                                                            PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   INST_Mar_22.SFC                                                    Met Version:  22112
  Profile file:   INST_Mar_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                 Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- --  ------  ------  ------  ------ ------ ------  -------  ----  ----- ------  ------  ----  ------  ----  ------
22 03 23  82 01  -17.4   0.186  -9.000  -9.000 -999.   193.     38.1  0.26   0.63   1.00    1.61  100.   7.9  292.6   7.9
22 03 23  82 02   -1.5   0.052  -9.000  -9.000 -999.    52.      8.0  0.01   0.63   1.00    0.80  130.   7.9  292.0   7.9
22 03 23  82 03   -2.8   0.065  -9.000  -9.000 -999.    40.      8.4  0.01   0.63   1.00    1.21  120.   7.9  291.9   7.9
22 03 23  82 04   -2.8   0.075  -9.000  -9.000 -999.    49.     13.2  0.26   0.63   1.00    0.63  113.   7.9  287.4   7.9
22 03 23  82 05   -8.3   0.126  -9.000  -9.000 -999.   107.     20.8  0.26   0.63   1.00    1.12  118.   7.9  286.9   7.9
22 03 23  82 06   -5.8   0.104  -9.000  -9.000 -999.    81.     17.1  0.26   0.63   1.00    0.94   98.   7.9  287.0   7.9
22 03 23  82 07  -10.4   0.142  -9.000  -9.000 -999.   128.     23.7  0.26   0.63   1.00    1.25  115.   7.9  287.3   7.9
22 03 23  82 08   -0.3   0.166  -9.000  -9.000 -999.   162.   1331.3  0.26   0.63   0.35    1.34  106.   7.9  288.1   7.9
22 03 23  82 09    0.1   0.095   0.035   0.005   14.    72.   -751.4  0.26   0.63   0.22    0.80  115.   7.9  288.2   7.9
22 03 23  82 10    0.1   0.137   0.039   0.005   20.   122.  -2235.8  0.26   0.63   0.18    1.16  112.   7.9  289.8   7.9
22 03 23  82 11    0.1   0.124   0.042   0.005   25.   105.  -1667.2  0.01   0.63   0.17    2.10  127.   7.9  294.4   7.9
22 03 23  82 12    0.1   0.226   0.044   0.005   29.   258.  -8888.0  0.26   0.63   0.16    1.92  109.   7.9  296.8   7.9
22 03 23  82 13    0.1   0.111   0.045   0.005   32.    97.  -1196.0  0.01   0.63   0.16    1.88  134.   7.9  296.8   7.9
22 03 23  82 14    0.1   0.167   0.047   0.005   35.   163.  -4005.8  0.01   0.63   0.16    2.82  124.   7.9  298.0   7.9
22 03 23  82 15    0.1   0.416   0.048   0.005   38.   643.  -8888.0  0.26   0.63   0.17    3.53  117.   7.9  298.8   7.9
22 03 23  82 16    0.1   0.324   0.049   0.005   41.   447.  -8888.0  0.05   0.63   0.18    4.11  183.   7.9  297.8   7.9
22 03 23  82 17    0.1   0.124   0.050   0.005   43.   151.  -1658.8  0.01   0.63   0.21    2.10  131.   7.9  297.8   7.9
22 03 23  82 18    0.1   0.220   0.051   0.005   45.   248.  -8888.0  0.15   0.63   0.32    2.19  306.   7.9  294.4   7.9
22 03 23  82 19  -14.3   0.166  -9.000  -9.000 -999.   163.     30.2  0.15   0.63   0.68    1.74  306.   7.9  291.5   7.9
22 03 23  82 20   -1.3   0.063  -9.000  -9.000 -999.    46.     16.6  0.38   0.63   1.00    0.31   45.   7.9  290.9   7.9
22 03 23  82 21   -6.2   0.109  -9.000  -9.000 -999.    86.     18.0  0.26   0.63   1.00    0.98  117.   7.9  289.8   7.9
22 03 23  82 22   -0.6   0.049  -9.000  -9.000 -999.    27.     16.4  0.04   0.63   1.00    0.31  171.   7.9  289.2   7.9
22 03 23  82 23   -6.7   0.099  -9.000  -9.000 -999.    75.     12.5  0.01   0.63   1.00    1.92  278.   7.9  290.5   7.9
22 03 23  82 24  -17.2   0.182  -9.000  -9.000 -999.   187.     36.5  0.03   0.63   1.00    2.77  266.   7.9  288.8   7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 03 23 01    7.9 1  100.    1.61   292.7   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        08:17:44
                                                                                                             PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODISTFL   1ST HIGHEST VALUE IS      0.19664 AT (  432342.99,  4249230.00,   219.30,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.19351 AT (  432331.66,  4249218.67,   216.70,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.15787 AT (  432092.99,  4249280.00,   219.60,   326.50,     0.00)  DC
           4TH HIGHEST VALUE IS      0.14866 AT (  432392.99,  4249180.00,   215.80,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.13966 AT (  432142.99,  4249280.00,   216.80,   326.50,     0.00)  DC
           6TH HIGHEST VALUE IS      0.12767 AT (  432192.99,  4249280.00,   215.90,   326.50,     0.00)  DC
           7TH HIGHEST VALUE IS      0.11995 AT (  432292.99,  4249330.00,   221.20,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.11030 AT (  432242.99,  4249330.00,   216.20,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.10611 AT (  432492.99,  4249130.00,   215.50,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.10209 AT (  432231.66,  4249318.67,   215.60,   326.50,     0.00)  DC

EODPOINT   1ST HIGHEST VALUE IS      0.19664 AT (  432342.99,  4249230.00,   219.30,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.19351 AT (  432331.66,  4249218.67,   216.70,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.15787 AT (  432092.99,  4249280.00,   219.60,   326.50,     0.00)  DC
           4TH HIGHEST VALUE IS      0.14866 AT (  432392.99,  4249180.00,   215.80,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.13966 AT (  432142.99,  4249280.00,   216.80,   326.50,     0.00)  DC
           6TH HIGHEST VALUE IS      0.12767 AT (  432192.99,  4249280.00,   215.90,   326.50,     0.00)  DC
           7TH HIGHEST VALUE IS      0.11995 AT (  432292.99,  4249330.00,   221.20,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.11030 AT (  432242.99,  4249330.00,   216.20,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.10611 AT (  432492.99,  4249130.00,   215.50,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.10209 AT (  432231.66,  4249318.67,   215.60,   326.50,     0.00)  DC

EODRAILF   1ST HIGHEST VALUE IS      0.11670 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           2ND HIGHEST VALUE IS      0.04822 AT (  431731.66,  4249218.67,   185.40,   328.30,     0.00)  DC
           3RD HIGHEST VALUE IS      0.04589 AT (  431742.99,  4249230.00,   186.00,   328.30,     0.00)  DC
           4TH HIGHEST VALUE IS      0.04419 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04082 AT (  431792.99,  4249230.00,   186.20,   328.30,     0.00)  DC
           6TH HIGHEST VALUE IS      0.04029 AT (  431692.99,  4249230.00,   185.80,   328.30,     0.00)  DC
           7TH HIGHEST VALUE IS      0.04025 AT (  432292.99,  4249130.00,   192.00,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.04007 AT (  432331.66,  4249118.67,   193.60,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.03976 AT (  431531.66,  4249218.67,   184.80,   328.30,     0.00)  DC
          10TH HIGHEST VALUE IS      0.03881 AT (  431631.66,  4249218.67,   185.70,   328.30,     0.00)  DC

EODPUMPF   1ST HIGHEST VALUE IS      0.17562 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           2ND HIGHEST VALUE IS      0.10203 AT (  431731.66,  4249218.67,   185.40,   328.30,     0.00)  DC
           3RD HIGHEST VALUE IS      0.09507 AT (  431742.99,  4249230.00,   186.00,   328.30,     0.00)  DC
           4TH HIGHEST VALUE IS      0.08309 AT (  431692.99,  4249230.00,   185.80,   328.30,     0.00)  DC
           5TH HIGHEST VALUE IS      0.08122 AT (  431531.66,  4249218.67,   184.80,   328.30,     0.00)  DC
           6TH HIGHEST VALUE IS      0.08032 AT (  431492.99,  4249230.00,   186.60,   328.30,     0.00)  DC
           7TH HIGHEST VALUE IS      0.07969 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           8TH HIGHEST VALUE IS      0.07933 AT (  431631.66,  4249218.67,   185.70,   328.30,     0.00)  DC
           9TH HIGHEST VALUE IS      0.07725 AT (  431231.66,  4249218.67,   183.90,   328.30,     0.00)  DC
          10TH HIGHEST VALUE IS      0.07528 AT (  431642.99,  4249230.00,   185.50,   328.30,     0.00)  DC
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
EODTANKF	1ST HIGHEST VALUE IS	0.10989 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	2ND HIGHEST VALUE IS	0.05539 AT	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05285 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04886 AT	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04844 AT	431231.66,	4249218.67,	183.90,	328.30,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04789 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04745 AT	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04611 AT	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04584 AT	431492.99,	4249230.00,	186.60,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04497 AT	431242.99,	4249230.00,	184.40,	328.30,	0.00)	DC
EODFLARF	1ST HIGHEST VALUE IS	0.01951 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01877 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01571 AT	431331.66,	4249218.67,	184.50,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01548 AT	431542.99,	4249230.00,	185.50,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01539 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01534 AT	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01506 AT	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01476 AT	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01476 AT	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01467 AT	431342.99,	4249230.00,	184.80,	328.30,	0.00)	DC
EODR25F	1ST HIGHEST VALUE IS	0.05312 AT	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC
	2ND HIGHEST VALUE IS	0.05176 AT	431892.99,	4249230.00,	187.60,	326.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.04339 AT	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.03858 AT	431842.99,	4249230.00,	186.80,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.03041 AT	431992.99,	4249180.00,	186.60,	326.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.02423 AT	431931.66,	4249218.67,	187.70,	326.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.02128 AT	432142.99,	4249130.00,	186.10,	326.50,	0.00)	DC
	8TH HIGHEST VALUE IS	0.02126 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.02018 AT	432042.99,	4249180.00,	186.60,	326.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01844 AT	431942.99,	4249230.00,	187.60,	326.50,	0.00)	DC
EODFUGI	1ST HIGHEST VALUE IS	0.41871 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00)	DC
	2ND HIGHEST VALUE IS	0.24060 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00)	DC
	3RD HIGHEST VALUE IS	0.22889 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00)	DC
	4TH HIGHEST VALUE IS	0.21897 AT	431792.99,	4249230.00,	186.20,	328.30,	0.00)	DC
	5TH HIGHEST VALUE IS	0.20552 AT	431692.99,	4249230.00,	185.80,	328.30,	0.00)	DC
	6TH HIGHEST VALUE IS	0.18726 AT	431631.66,	4249218.67,	185.70,	328.30,	0.00)	DC
	7TH HIGHEST VALUE IS	0.18472 AT	431531.66,	4249218.67,	184.80,	328.30,	0.00)	DC
	8TH HIGHEST VALUE IS	0.18183 AT	431831.66,	4249218.67,	186.20,	328.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.18137 AT	431642.99,	4249230.00,	185.50,	328.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.17783 AT	431492.99,	4249230.00,	186.60,	328.30,	0.00)	DC

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        08:17:44
                                                                                                             PAGE   6
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                               ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

EODIST     1ST HIGHEST VALUE IS      0.42096 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           2ND HIGHEST VALUE IS      0.24653 AT (  431731.66,  4249218.67,   185.40,   328.30,     0.00)  DC
           3RD HIGHEST VALUE IS      0.24339 AT (  432331.66,  4249218.67,   216.70,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.23534 AT (  431742.99,  4249230.00,   186.00,   328.30,     0.00)  DC
           5TH HIGHEST VALUE IS      0.23342 AT (  432342.99,  4249230.00,   219.30,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.22833 AT (  431792.99,  4249230.00,   186.20,   328.30,     0.00)  DC
           7TH HIGHEST VALUE IS      0.21559 AT (  432392.99,  4249180.00,   215.80,   325.70,     0.00)  DC
           8TH HIGHEST VALUE IS      0.21147 AT (  431692.99,  4249230.00,   185.80,   328.30,     0.00)  DC
           9TH HIGHEST VALUE IS      0.19416 AT (  431231.66,  4249218.67,   183.90,   328.30,     0.00)  DC
          10TH HIGHEST VALUE IS      0.19059 AT (  431631.66,  4249218.67,   185.70,   328.30,     0.00)  DC

221A       1ST HIGHEST VALUE IS      0.06913 AT (  432531.66,  4249218.67,   237.10,   325.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.06903 AT (  432392.99,  4249280.00,   237.90,   322.40,     0.00)  DC
           3RD HIGHEST VALUE IS      0.06533 AT (  432442.99,  4249230.00,   233.60,   322.40,     0.00)  DC
           4TH HIGHEST VALUE IS      0.06385 AT (  432492.99,  4249230.00,   240.00,   322.40,     0.00)  DC
           5TH HIGHEST VALUE IS      0.06229 AT (  432631.66,  4249218.67,   237.40,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.05990 AT (  432542.99,  4249230.00,   240.30,   322.40,     0.00)  DC
           7TH HIGHEST VALUE IS      0.05853 AT (  431492.99,  4249380.00,   236.10,   326.50,     0.00)  DC
           8TH HIGHEST VALUE IS      0.05808 AT (  432119.85,  4249306.86,   236.60,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.05805 AT (  432129.22,  4249316.23,   238.60,   322.40,     0.00)  DC
          10TH HIGHEST VALUE IS      0.05777 AT (  432131.66,  4249318.67,   238.40,   322.40,     0.00)  DC

230M       1ST HIGHEST VALUE IS      0.15243 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.12097 AT (  431892.99,  4248080.00,   172.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.11491 AT (  433031.66,  4248718.67,   187.40,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.11375 AT (  431879.22,  4248066.23,   172.80,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.09790 AT (  432931.66,  4248718.67,   184.60,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.09596 AT (  431842.99,  4248030.00,   172.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.09077 AT (  431831.66,  4248018.67,   172.80,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.08456 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           9TH HIGHEST VALUE IS      0.07543 AT (  433131.66,  4248718.67,   197.60,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.07461 AT (  432931.66,  4248418.67,   182.10,   316.30,     0.00)  DC

230L       1ST HIGHEST VALUE IS      0.72243 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.57565 AT (  431892.99,  4248080.00,   172.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.57030 AT (  433031.66,  4248718.67,   187.40,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.54149 AT (  431879.22,  4248066.23,   172.80,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.47684 AT (  432931.66,  4248718.67,   184.60,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.45719 AT (  431842.99,  4248030.00,   172.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.43254 AT (  431831.66,  4248018.67,   172.80,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.39821 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           9TH HIGHEST VALUE IS      0.36456 AT (  433231.66,  4248818.67,   195.00,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.35480 AT (  431792.99,  4247980.00,   172.80,   314.60,     0.00)  DC
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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - Institute *** 07/25/22
*** AERMET - VERSION 22112 *** *** Ethylene Oxide Distribution AND Polyox Processes *** 08:17:44
PAGE 7

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
230K	1ST HIGHEST VALUE IS	0.14320 AT	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.11440 AT	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.10763 AT	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.10738 AT	433031.66,	4248718.67,	187.40,	325.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.09513 AT	432931.66,	4248718.67,	184.60,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.09083 AT	431842.99,	4248030.00,	172.80,	314.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.08589 AT	431831.66,	4248018.67,	172.80,	314.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.07243 AT	433231.66,	4248818.67,	195.00,	325.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.07072 AT	432931.66,	4248418.67,	182.10,	316.30,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.07026 AT	431792.99,	4247980.00,	172.80,	314.60,	0.00)	DC	
230O	1ST HIGHEST VALUE IS	0.04875 AT	433331.66,	4248918.67,	214.60,	325.70,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.04411 AT	432703.87,	4249110.67,	213.40,	325.70,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.04323 AT	433431.66,	4248818.67,	209.20,	325.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.04271 AT	433631.66,	4248718.67,	210.80,	306.60,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.04140 AT	434031.66,	4248418.67,	211.60,	306.60,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.04095 AT	433531.66,	4248718.67,	209.50,	306.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.04092 AT	433431.66,	4248918.67,	215.50,	325.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.03804 AT	433129.22,	4249066.23,	211.30,	325.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.03803 AT	433531.66,	4248818.67,	215.80,	306.60,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.03711 AT	433631.66,	4248518.67,	209.50,	304.30,	0.00)	DC	
230HH	1ST HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	2ND HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	3RD HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	4TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	5TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	6TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	7TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	8TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	9TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT	0.00,	0.00,	0.00,	0.00,	0.00)		
PPOINT	1ST HIGHEST VALUE IS	1.03738 AT	431931.66,	4248118.67,	180.80,	314.60,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.82440 AT	431892.99,	4248080.00,	172.80,	314.60,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.81357 AT	433031.66,	4248718.67,	187.40,	325.70,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.77549 AT	431879.22,	4248066.23,	172.80,	314.60,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.69127 AT	432931.66,	4248718.67,	184.60,	325.70,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.65470 AT	431842.99,	4248030.00,	172.80,	314.60,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.61936 AT	431831.66,	4248018.67,	172.80,	314.60,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.54518 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.52390 AT	433231.66,	4248818.67,	195.00,	325.70,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.51095 AT	433131.66,	4248718.67,	197.60,	325.70,	0.00)	DC	

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        08:17:44
                                                                                                              PAGE   8
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

POLYVOL1   1ST HIGHEST VALUE IS      0.02621 AT (  432831.66,  4248318.67,   182.30,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.02321 AT (  432879.22,  4248316.23,   181.30,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.02001 AT (  432931.66,  4248318.67,   182.10,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.01760 AT (  432931.66,  4248218.67,   182.50,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.01701 AT (  433031.66,  4248218.67,   183.30,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.01677 AT (  432831.66,  4248218.67,   182.40,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.01557 AT (  433031.66,  4248318.67,   183.60,   304.30,     0.00)  DC
           8TH HIGHEST VALUE IS      0.01554 AT (  433131.66,  4248218.67,   184.90,   304.30,     0.00)  DC
           9TH HIGHEST VALUE IS      0.01383 AT (  433231.66,  4248218.67,   185.30,   304.30,     0.00)  DC
          10TH HIGHEST VALUE IS      0.01351 AT (  433119.85,  4248306.86,   185.50,   304.30,     0.00)  DC

PBL8389    1ST HIGHEST VALUE IS      0.00510 AT (  433129.22,  4248816.23,   205.00,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.00504 AT (  433131.66,  4248818.67,   204.60,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.00453 AT (  433119.85,  4248806.86,   201.70,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.00372 AT (  433379.22,  4248816.23,   201.30,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00350 AT (  433331.66,  4248718.67,   202.10,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00335 AT (  433431.66,  4248818.67,   209.20,   325.70,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00324 AT (  433131.66,  4248718.67,   197.60,   325.70,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00322 AT (  433131.66,  4248918.67,   204.40,   325.70,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00284 AT (  432131.66,  4249218.67,   204.10,   326.50,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00274 AT (  433331.66,  4248818.67,   197.40,   325.70,     0.00)  DC

PFUGIT     1ST HIGHEST VALUE IS      0.02749 AT (  432831.66,  4248318.67,   182.30,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.02443 AT (  432879.22,  4248316.23,   181.30,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.02120 AT (  432931.66,  4248318.67,   182.10,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.01876 AT (  432931.66,  4248218.67,   182.50,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.01820 AT (  433031.66,  4248218.67,   183.30,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.01781 AT (  432831.66,  4248218.67,   182.40,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.01674 AT (  433131.66,  4248218.67,   184.90,   304.30,     0.00)  DC
           8TH HIGHEST VALUE IS      0.01662 AT (  433031.66,  4248318.67,   183.60,   304.30,     0.00)  DC
           9TH HIGHEST VALUE IS      0.01501 AT (  433231.66,  4248218.67,   185.30,   304.30,     0.00)  DC
          10TH HIGHEST VALUE IS      0.01450 AT (  433119.85,  4248306.86,   185.50,   304.30,     0.00)  DC

POLYOX     1ST HIGHEST VALUE IS      1.05118 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.83416 AT (  431892.99,  4248080.00,   172.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.82323 AT (  433031.66,  4248718.67,   187.40,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.78466 AT (  431879.22,  4248066.23,   172.80,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.70063 AT (  432931.66,  4248718.67,   184.60,   325.70,     0.00)  DC
           6TH HIGHEST VALUE IS      0.66259 AT (  431842.99,  4248030.00,   172.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.62690 AT (  431831.66,  4248018.67,   172.80,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.55086 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           9TH HIGHEST VALUE IS      0.53502 AT (  433231.66,  4248818.67,   195.00,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.52291 AT (  433131.66,  4248718.67,   197.60,   325.70,     0.00)  DC
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        08:17:44
                                                                                                            PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    26 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

ALL       1ST HIGHEST VALUE IS      1.08913 AT (  431931.66,  4248118.67,   180.80,   314.60,     0.00)  DC
          2ND HIGHEST VALUE IS      0.91673 AT (  433031.66,  4248718.67,   187.40,   325.70,     0.00)  DC
          3RD HIGHEST VALUE IS      0.86758 AT (  431892.99,  4248080.00,   172.80,   314.60,     0.00)  DC
          4TH HIGHEST VALUE IS      0.81757 AT (  431879.22,  4248066.23,   172.80,   314.60,     0.00)  DC
          5TH HIGHEST VALUE IS      0.80874 AT (  432931.66,  4248718.67,   184.60,   325.70,     0.00)  DC
          6TH HIGHEST VALUE IS      0.72641 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
          7TH HIGHEST VALUE IS      0.69407 AT (  431842.99,  4248030.00,   172.80,   314.60,     0.00)  DC
          8TH HIGHEST VALUE IS      0.65794 AT (  431831.66,  4248018.67,   172.80,   314.60,     0.00)  DC
          9TH HIGHEST VALUE IS      0.59288 AT (  433131.66,  4248718.67,   197.60,   325.70,     0.00)  DC
         10TH HIGHEST VALUE IS      0.59169 AT (  433231.66,  4248818.67,   195.00,   325.70,     0.00)  DC

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

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        08:17:44
                                                                                                           PAGE  10

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           15 Warning Message(s)
A Total of            0 Informational Message(s)

A Total of           26 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            0 Missing Hours Identified (  0.00 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      29       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      44       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      45       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      46       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      47       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      48       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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March Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                     ***        08:20:38
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * Option for Capped & Horiz Stacks Selected With:
       0 Capped Stack(s); and         3 Horizontal Stack(s)
     * ADJ_U*    - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:    119 Source(s);      33 Source Group(s); and   15537 Receptor(s)

               with:    102 POINT(s), including
                          0 POINTCAP(s) and      3 POINTHOR(s)
                and:     15 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      1 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     20.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```

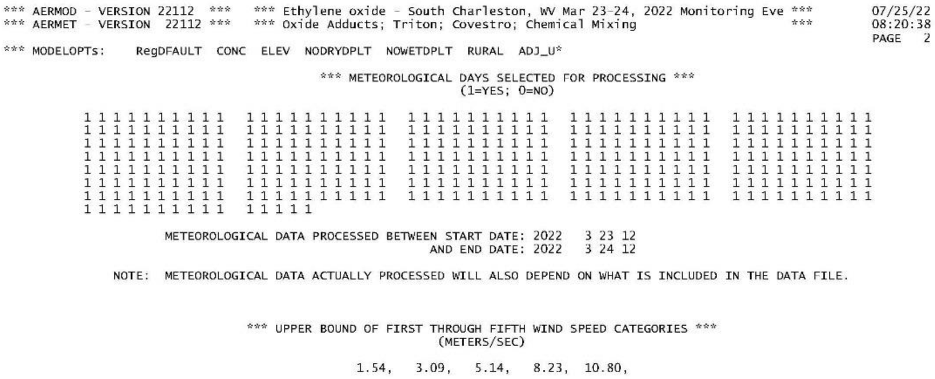

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        08:20:38
                                                                                                                      PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                            (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                 METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   3 23 12
                                                     AND END DATE: 2022   3 24 12

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                            (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
```

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                   ***        08:20:38
                                                                                                                   PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   SC_Mar_22.SFC                                                                  Met Version:  22112
  Profile file:   SC_Mar_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                  Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR     HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- -- ------ ------ ------ ------ ----- ----- --------- ----- ----- ------ ------ ---- ------ ------ ------
22 03 22  81 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  280.9    2.0
22 03 22  81 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  280.3    2.0
22 03 22  81 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  279.8    2.0
22 03 22  81 04 -999.0 -9.000 -9.000 -9.000  999.  999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  278.8    2.0
22 03 22  81 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  279.2    2.0
22 03 22  81 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  278.8    2.0
22 03 22  81 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05  0.63   1.00   0.00   0.   10.0  278.1    2.0
22 03 22  81 08    9.1 -9.000 -9.000 -9.000   37. -999. -99999.0  0.05  0.63   0.36   0.00   0.   10.0  279.8    2.0
22 03 22  81 09   11.4 -9.000 -9.000 -9.000   55. -999. -99999.0  0.05  0.63   0.22   0.00   0.   10.0  283.1    2.0
22 03 22  81 10   71.4 -9.000 -9.000 -9.000  118.  999. -99999.0  0.05  0.63   0.18   0.00   0.   10.0  286.4    2.0
22 03 22  81 11  114.4  0.184  1.079  0.009  385.  189.      -4.7  0.05  0.63   0.17   1.76 999.   10.0  292.0    2.0
22 03 22  81 12    3.9  0.055  0.351  0.009  386.   50.      -3.8  0.01  0.63   0.16   0.76  73.    7.9  287.8    7.9
22 03 22  81 13    7.4  0.065  0.439  0.009  402.   40.      -3.3  0.01  0.63   0.16   0.89  88.    7.9  290.9    7.9
22 03 22  81 14    9.7  0.050  0.488  0.009  420.   27.      -1.1  0.02  0.63   0.16   0.45  54.    7.9  293.8    7.9
22 03 22  81 15   10.1  0.065  0.502  0.009  436.   40.      -2.4  0.01  0.63   0.17   0.80 101.    7.9  294.8    7.9
22 03 22  81 16    8.8  0.126  0.484  0.009  450.  107.     -19.8  0.01  0.63   0.18   1.88 115.    7.9  294.9    7.9
22 03 22  81 17    6.2  0.141  0.434  0.009  459.  127.     -39.6  0.01  0.63   0.21   2.19 113.    7.9  295.5    7.9
22 03 22  81 18    2.0  0.110  0.296  0.009  462.   88.     -59.5  0.01  0.63   0.33   1.74  97.    7.9  296.0    7.9
22 03 22  81 19  -15.9  0.174 -9.000 -9.000 -999.  174.      33.1  0.01  0.63   0.70   3.08 117.    7.9  296.8    7.9
22 03 22  81 20   -9.6  0.121 -9.000 -9.000 -999.  101.      16.0  0.01  0.63   1.00   2.19 114.    7.9  295.9    7.9
22 03 22  81 21   -3.5  0.071 -9.000 -9.000  999.   46.       8.9  0.01  0.63   1.00   1.39  82.    7.9  293.8    7.9
22 03 22  81 22  -14.2  0.153 -9.000 -9.000 -999.  143.      25.7  0.01  0.63   1.00   2.73 112.    7.9  294.2    7.9
22 03 22  81 23  -16.7  0.179 -9.000 -9.000 -999.  181.      35.2  0.01  0.63   1.00   3.17 117.    7.9  293.9    7.9
22 03 22  81 24  -16.3  0.175 -9.000 -9.000 -999.  175.      33.6  0.03  0.63   1.00   2.68 128.    7.9  293.4    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 03 22 01   10.0 1 -999.  -99.00   281.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        08:20:38
                                                                                                                     PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                                ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

CHMIX      1ST HIGHEST VALUE IS      0.02698 AT (  440277.01,  4246783.81,   183.80,   284.10,     0.00)  DC
           2ND HIGHEST VALUE IS      0.02328 AT (  440227.01,  4246783.81,   183.70,   284.10,     0.00)  DC
           3RD HIGHEST VALUE IS      0.01772 AT (  440177.01,  4246733.81,   181.40,   284.10,     0.00)  DC
           4TH HIGHEST VALUE IS      0.01380 AT (  440277.01,  4246733.81,   183.70,   284.10,     0.00)  DC
           5TH HIGHEST VALUE IS      0.01148 AT (  440315.68,  4246722.48,   184.10,   284.10,     0.00)  DC
           6TH HIGHEST VALUE IS      0.01081 AT (  440515.68,  4246822.48,   173.10,   302.70,     0.00)  DC
           7TH HIGHEST VALUE IS      0.01065 AT (  440127.01,  4246683.81,   180.50,   322.90,     0.00)  DC
           8TH HIGHEST VALUE IS      0.01023 AT (  440327.01,  4246733.81,   184.40,   284.10,     0.00)  DC
           9TH HIGHEST VALUE IS      0.01016 AT (  440177.01,  4246683.81,   180.30,   322.90,     0.00)  DC
          10TH HIGHEST VALUE IS      0.01008 AT (  440215.68,  4246722.48,   181.80,   284.10,     0.00)  DC

1RX        1ST HIGHEST VALUE IS      0.00287 AT (  440077.01,  4247283.81,   173.10,   272.80,     0.00)  DC
           2ND HIGHEST VALUE IS      0.00273 AT (  439977.01,  4247083.81,   173.10,   184.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.00268 AT (  439877.01,  4247133.81,   173.10,   184.90,     0.00)  DC
           4TH HIGHEST VALUE IS      0.00266 AT (  439927.01,  4247333.81,   173.10,   327.10,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00255 AT (  439827.01,  4247133.81,   173.10,   185.00,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00248 AT (  439915.68,  4247322.48,   173.10,   327.10,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00214 AT (  440127.01,  4247283.81,   173.10,   272.80,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00209 AT (  440015.68,  4247322.48,   173.10,   327.10,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00202 AT (  439927.01,  4247383.81,   173.10,   327.10,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00197 AT (  439915.68,  4247122.48,   173.10,   184.60,     0.00)  DC

2RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

3RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.02400 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02203 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.02072 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01891 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01480 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01373 AT (440027.01, 4246783.81, 182.00, 282.30, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01253 AT (440115.68, 4246822.48, 183.50, 183.50, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01226 AT (440077.01, 4246783.81, 182.10, 284.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01157 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01123 AT (440027.01, 4246833.81, 183.70, 183.70, 0.00)	DC		
CPOINT	1ST HIGHEST VALUE IS	0.02431 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02261 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.02150 AT (440327.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01953 AT (440315.68, 4246922.48, 173.10, 283.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01528 AT (440277.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01435 AT (440027.01, 4246783.81, 182.00, 282.30, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01344 AT (440115.68, 4246822.48, 183.50, 183.50, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01297 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01282 AT (440077.01, 4246783.81, 182.10, 284.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01201 AT (440027.01, 4246833.81, 183.70, 183.70, 0.00)	DC		
CEO03F	1ST HIGHEST VALUE IS	0.04048 AT (439915.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.03887 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.02603 AT (439877.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.02599 AT (439927.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.02564 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.02336 AT (439877.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.02139 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.02135 AT (439963.24, 4247370.04, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02101 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01996 AT (439915.68, 4247422.48, 173.10, 327.10, 0.00)	DC		
CPIVF	1ST HIGHEST VALUE IS	0.06101 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.05931 AT (440227.01, 4246983.81, 173.10, 183.90, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.04329 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.04209 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03886 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03386 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03262 AT (440227.01, 4246933.81, 173.10, 183.90, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.03243 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.03134 AT (440327.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.03078 AT (440227.01, 4247333.81, 173.10, 272.80, 0.00)	DC		

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
PAGE 6

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
CFUGIT	1ST HIGHEST VALUE IS	0.06848	AT (440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06674	AT (440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05542	AT (440227.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	4TH HIGHEST VALUE IS	0.05249	AT (440277.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	5TH HIGHEST VALUE IS	0.05186	AT (439915.68,	4247322.48,	173.10,	327.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04900	AT (439927.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04843	AT (440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04597	AT (440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04339	AT (440215.68,	4247322.48,	173.10,	272.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04113	AT (440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC
COVESTRO	1ST HIGHEST VALUE IS	0.09279	AT (440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.08935	AT (440227.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.06840	AT (440227.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06386	AT (440277.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	5TH HIGHEST VALUE IS	0.05835	AT (440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	6TH HIGHEST VALUE IS	0.05519	AT (439915.68,	4247322.48,	173.10,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.05494	AT (440327.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05405	AT (440215.68,	4247322.48,	173.10,	272.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.05227	AT (439927.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.05201	AT (440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
TE10813	1ST HIGHEST VALUE IS	0.00710	AT (440077.01,	4247383.81,	173.10,	327.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00637	AT (440077.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00636	AT (440077.01,	4247433.81,	175.70,	327.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00597	AT (440115.68,	4247322.48,	173.10,	305.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00594	AT (440101.78,	4247450.15,	181.45,	327.12,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00589	AT (440127.01,	4247333.81,	173.10,	305.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00578	AT (440127.01,	4247383.81,	173.10,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00564	AT (439277.01,	4246133.81,	206.10,	269.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00551	AT (440377.01,	4246433.81,	209.00,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00550	AT (440077.01,	4247483.81,	181.10,	327.10,	0.00)	DC
T_L_ALL	1ST HIGHEST VALUE IS	0.00956	AT (440127.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00861	AT (440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00691	AT (440119.85,	4247306.86,	173.10,	272.80,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00632	AT (439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00623	AT (440177.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00585	AT (440115.68,	4247322.48,	173.10,	305.60,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00545	AT (440077.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00498	AT (440127.01,	4247333.81,	173.10,	305.60,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00485	AT (440227.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00474	AT (440015.68,	4247322.48,	173.10,	327.10,	0.00)	DC

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
PAGE 7

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
T_T_ALL	1ST HIGHEST VALUE IS	0.01251 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00921 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00758 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00693 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00686 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00669 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00664 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00656 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00632 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00626 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
T_POINT	1ST HIGHEST VALUE IS	0.02417 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02103 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01997 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01873 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01852 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01702 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01649 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01628 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01537 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01516 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
THF	1ST HIGHEST VALUE IS	0.01630 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00915 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00699 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00676 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00563 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00539 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00531 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00442 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00318 AT (440277.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00295 AT (440215.68, 4247322.48, 173.10, 272.80, 0.00)	DC		
TRF	1ST HIGHEST VALUE IS	0.00700 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00692 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00597 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00533 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00500 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00451 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00360 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00356 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00354 AT (440077.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00343 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
TFNC	1ST HIGHEST VALUE IS	0.01347 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00879 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00853 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00672 AT (439963.24, 4247370.04, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00598 AT (439927.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00586 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00545 AT (439977.01, 4247383.81, 173.10, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00510 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00486 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00484 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
T_FUGIT	1ST HIGHEST VALUE IS	0.02831 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.02142 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.01953 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.01698 AT (439977.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.01692 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.01406 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.01402 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.01393 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.01347 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.01162 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
TRITON	1ST HIGHEST VALUE IS	0.04828 AT (440127.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.04559 AT (440077.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.03825 AT (440119.85, 4247306.86, 173.10, 272.80, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.03544 AT (440115.68, 4247322.48, 173.10, 305.60, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.03509 AT (440077.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.03021 AT (440127.01, 4247333.81, 173.10, 305.60, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.02939 AT (440177.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.02785 AT (440027.01, 4247333.81, 173.10, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02774 AT (440015.68, 4247322.48, 173.10, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.02678 AT (440227.01, 4247283.81, 173.10, 272.80, 0.00)	DC		
OA_E70XP	1ST HIGHEST VALUE IS	0.27797 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.26243 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.25083 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.24937 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.24226 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.23776 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.23030 AT (440115.68, 4247022.48, 173.10, 184.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.22209 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.22117 AT (440127.01, 4246983.81, 173.10, 184.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.21229 AT (440177.01, 4246983.81, 173.10, 183.90, 0.00)	DC		

*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve *** 07/25/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 08:20:38
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U* ***

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OA_TALLP	1ST HIGHEST VALUE IS	0.00483 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00479 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00468 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00453 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00437 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00429 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00407 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00381 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00379 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00374 AT	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC
OA_LALLP	1ST HIGHEST VALUE IS	0.00094 AT	439527.01,	4247133.81,	184.50,	184.50,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00089 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00080 AT	439577.01,	4246933.81,	183.70,	183.70,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00079 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00068 AT	439527.01,	4246933.81,	183.60,	183.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00063 AT	439515.68,	4247122.48,	184.70,	184.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00062 AT	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00062 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00061 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00060 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
OA_POINT	1ST HIGHEST VALUE IS	0.28194 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.26558 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.25625 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.25445 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.24766 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.24207 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.23431 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.22636 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.22512 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.21584 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
OAHR2F	1ST HIGHEST VALUE IS	0.12431 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.09080 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.06914 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.06100 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.05842 AT	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.05708 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.05533 AT	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC
	8TH HIGHEST VALUE IS	0.05283 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04095 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.03394 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.05503 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.05271 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.05244 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.05174 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.04472 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.04441 AT (439615.68, 4247222.48, 173.00, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.03941 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.03919 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.03651 AT (439915.68, 4247122.48, 173.10, 184.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.03525 AT (439877.01, 4247133.81, 173.10, 184.90, 0.00)	DC		
OAR6F	1ST HIGHEST VALUE IS	0.00848 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00810 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00808 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00801 AT (439615.68, 4247222.48, 173.00, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00791 AT (439627.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00763 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00736 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00706 AT (439577.01, 4246933.81, 183.70, 183.70, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00697 AT (439527.01, 4246933.81, 183.60, 183.60, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00690 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
OAR7F	1ST HIGHEST VALUE IS	0.00585 AT (439727.01, 4247183.81, 173.10, 311.00, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.00501 AT (439927.01, 4247083.81, 173.10, 185.00, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.00469 AT (439827.01, 4247133.81, 173.10, 185.00, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.00447 AT (439715.68, 4247222.48, 173.10, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.00433 AT (439677.01, 4247233.81, 173.10, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.00404 AT (439977.01, 4247083.81, 173.10, 184.70, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.00384 AT (440027.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.00374 AT (440015.68, 4247022.48, 173.10, 184.90, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.00372 AT (439777.01, 4247183.81, 173.10, 184.40, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.00338 AT (440077.01, 4247033.81, 173.10, 184.70, 0.00)	DC		
OAWTILF	1ST HIGHEST VALUE IS	0.10049 AT (439619.85, 4247306.86, 180.30, 327.10, 0.00)	DC		
	2ND HIGHEST VALUE IS	0.03826 AT (439477.01, 4247283.81, 173.00, 327.10, 0.00)	DC		
	3RD HIGHEST VALUE IS	0.03294 AT (439427.01, 4247283.81, 173.00, 327.10, 0.00)	DC		
	4TH HIGHEST VALUE IS	0.02901 AT (439377.01, 4247283.81, 173.00, 327.10, 0.00)	DC		
	5TH HIGHEST VALUE IS	0.02680 AT (439527.01, 4247233.81, 173.00, 327.10, 0.00)	DC		
	6TH HIGHEST VALUE IS	0.02642 AT (439227.01, 4247333.81, 173.00, 327.10, 0.00)	DC		
	7TH HIGHEST VALUE IS	0.02523 AT (439477.01, 4247233.81, 173.00, 327.10, 0.00)	DC		
	8TH HIGHEST VALUE IS	0.02482 AT (439327.01, 4247283.81, 173.00, 327.10, 0.00)	DC		
	9TH HIGHEST VALUE IS	0.02445 AT (439515.68, 4247222.48, 173.00, 327.10, 0.00)	DC		
	10TH HIGHEST VALUE IS	0.02299 AT (439427.01, 4247233.81, 173.00, 327.10, 0.00)	DC		

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (25 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.04897 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.03573 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.03540 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.01590 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.01423 AT	439713.24,	4247370.04,	173.10,	327.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.01342 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.01316 AT	439727.01,	4247383.81,	173.10,	327.10,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.01208 AT	439827.01,	4247333.81,	173.10,	327.10,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.01182 AT	439777.01,	4247383.81,	173.10,	327.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.01064 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
OA_FUGIT	1ST HIGHEST VALUE IS	0.24759 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.17472 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.16558 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.16029 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.15212 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.14042 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.13613 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.11652 AT	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.11211 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.11188 AT	439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC	
OA_ALL	1ST HIGHEST VALUE IS	0.44030 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.39405 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.38379 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.37650 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.37246 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.35568 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.33784 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.33732 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.33491 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.31817 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
UCC_SC	1ST HIGHEST VALUE IS	0.44453 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.39789 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.39566 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.38251 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.37754 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.35999 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.35612 AT	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.35230 AT	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.34891 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.33049 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        08:20:38
                                                                                                                     PAGE  12
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD (    25 HRS) RESULTS ***

                                   ** CONC OF OTHER     IN MICROGRAMS/M**3                          **

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

ALL       1ST HIGHEST VALUE IS       0.45770 AT (  439619.85,  4247306.86,   180.30,   327.10,     0.00)  DC
          2ND HIGHEST VALUE IS       0.41939 AT (  439927.01,  4247083.81,   173.10,   185.00,     0.00)  DC
          3RD HIGHEST VALUE IS       0.40788 AT (  439627.01,  4247233.81,   173.10,   327.10,     0.00)  DC
          4TH HIGHEST VALUE IS       0.39954 AT (  439777.01,  4247183.81,   173.10,   184.40,     0.00)  DC
          5TH HIGHEST VALUE IS       0.39122 AT (  439727.01,  4247183.81,   173.10,   311.00,     0.00)  DC
          6TH HIGHEST VALUE IS       0.38272 AT (  439977.01,  4247083.81,   173.10,   184.70,     0.00)  DC
          7TH HIGHEST VALUE IS       0.37851 AT (  440027.01,  4247033.81,   173.10,   184.70,     0.00)  DC
          8TH HIGHEST VALUE IS       0.37351 AT (  440015.68,  4247022.48,   173.10,   184.90,     0.00)  DC
          9TH HIGHEST VALUE IS       0.37179 AT (  439677.01,  4247233.81,   173.10,   327.10,     0.00)  DC
         10TH HIGHEST VALUE IS       0.37003 AT (  440177.01,  4246983.81,   173.10,   183.90,     0.00)  DC


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

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Mar 23-24, 2022 Monitoring Eve ***        07/25/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        08:20:38
                                                                                                                    PAGE  13

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           45 Warning Message(s)
A Total of           11 Informational Message(s)

A Total of           25 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            0 Missing Hours Identified (  0.00 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      23        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      93        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      94        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     122        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     132        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     166        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W390     197        LPARM: Aspect ratio (L/W) of LINE source greater than 100       OAWTIL
SO W320     252        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     254        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     261        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     266        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     267        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     268        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     321        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     322        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      28       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      38        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      55        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      56        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      57        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      60        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      61        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      62        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      63        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      64        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      65        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      66        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      67        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      68        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      69        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      70        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      71        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      74        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
```

April Monitoring Event AERMOD Summary File: Institute

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                           PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * ADJ_U*    - Use ADJ_U* option for SBL in AERMET
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:     26 Source(s);      21 Source Group(s); and   15537 Receptor(s)

               with:       7 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     19 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

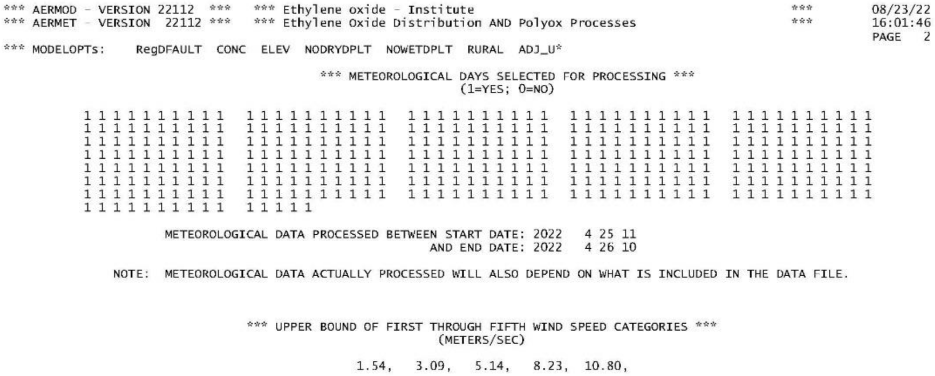
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =     0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     14.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```



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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                          ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes                    ***        16:01:46
                                                                                                                     PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   4 25 11
                                                    AND END DATE: 2022   4 26 10

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                             (METERS/SEC)

                                                  1.54,   3.09,   5.14,   8.23,  10.80,
```

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                            PAGE   3
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   WV_APR_22.SFC                                                    Met Version:  22112
  Profile file:   WV_APR_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                 Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR      HO      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- --  ------  ------  ------  ------ ------ ------ --------  ----  ----- ------  ------ ----  -----  ------  -----
22 04 25 115 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.01   0.63   1.00    0.28  134.   7.9  288.9    7.9
22 04 25 115 02   -2.2  0.070 -9.000 -9.000 -999.   44.     13.3 0.26   0.63   1.00    0.54  118.   7.9  288.9    7.9
22 04 25 115 03   -4.8  0.095 -9.000 -9.000 -999.   70.     15.6 0.26   0.63   1.00    0.85  117.   7.9  288.5    7.9
22 04 25 115 04  999.0  9.000 -9.000 -9.000  999.  999.  99999.0 0.37   0.63   1.00    0.58   63.   7.9  288.4    7.9
22 04 25 115 05  -13.1  0.159 -9.000 -9.000 -999.  152.     27.8 0.26   0.63   1.00    1.39   97.   7.9  288.8    7.9
22 04 25 115 06   -5.8  0.104 -9.000 -9.000 -999.   81.     17.2 0.26   0.63   1.00    0.94   96.   7.9  288.4    7.9
22 04 25 115 07   -4.6  0.142 -9.000 -9.000 -999.  128.     54.4 0.26   0.63   0.40    1.21  109.   7.9  289.4    7.9
22 04 25 115 08    0.1  0.049  0.024  0.018    5.   32.   -102.7 0.01   0.63   0.24    0.80  124.   7.9  291.3    7.9
22 04 25 115 09    0.1  0.085  0.027  0.016    7.   60.   -549.4 0.03   0.63   0.18    1.21  250.   7.9  298.4    7.9
22 04 25 115 10    0.1  0.200  0.028  0.007    8.  214.  -7007.1 0.04   0.63   0.17    2.59  210.   7.9  299.0    7.9
22 04 25 115 11    0.1  0.141  0.030  0.011    9.  128.  -2476.4 0.05   0.63   0.16    1.79  205.   7.9  300.0    7.9
22 04 25 115 12    0.1  0.049  0.031  0.018   10.   32.   -102.5 0.03   0.63   0.16    0.67  254.   7.9  300.6    7.9
22 04 25 115 13    0.1  0.169  0.032  0.008   11.  167.  -4222.7 0.03   0.63   0.16    2.41  263.   7.9  301.5    7.9
22 04 25 115 14    0.1  0.101  0.033  0.014   12.   78.   -899.7 0.04   0.63   0.16    1.30  226.   7.9  302.0    7.9
22 04 25 115 15    0.1  0.201  0.034  0.007   13.  216.  -7123.8 0.01   0.63   0.16    3.53  281.   7.9  302.3    7.9
22 04 25 115 16    0.1  0.110  0.034  0.014   14.   91.  -1164.1 0.05   0.63   0.17    1.39  199.   7.9  302.9    7.9
22 04 25 115 17    0.1  0.151  0.035  0.010   15.  140.  -3001.6 0.03   0.63   0.19    2.15  244.   7.9  303.2    7.9
22 04 25 115 18    0.1  0.134  0.035  0.012   15.  118.  -2131.0 0.04   0.63   0.25    1.74  227.   7.9  302.8    7.9
22 04 25 115 19    0.1  0.058  0.036  0.017   16.   36.   -166.8 0.03   0.63   0.45    0.80  261.   7.9  301.8    7.9
22 04 25 115 20  -17.9  0.195 -9.000 -9.000 -999.  206.     41.7 0.01   0.63   1.00    3.62  281.   7.9  298.9    7.9
22 04 25 115 21    2.0  0.056 -9.000 -9.000  999.   56.      7.5 0.01   0.63   1.00    1.03  299.   7.9  297.2    7.9
22 04 25 115 22   -0.8  0.056 -9.000 -9.000 -999.   32.     18.7 0.17   0.63   1.00    0.28  344.   7.9  293.8    7.9
22 04 25 115 23   -0.8  0.045 -9.000 -9.000 -999.   23.     10.1 0.01   0.63   1.00    0.49  294.   7.9  292.4    7.9
22 04 25 115 24   -9.2  0.130 -9.000 -9.000 -999.  112.     20.9 0.15   0.63   1.00    1.39  300.   7.9  291.2    7.9


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 04 25 01    7.9 1  134.    0.27   289.0   99.0  -99.00  -99.00

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

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                    ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes              ***        16:01:46
                                                                                                             PAGE   4
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODISTFL   1ST HIGHEST VALUE IS      0.06032 AT (  434431.66,  4247718.67,   214.40,   303.80,     0.00)  DC
           2ND HIGHEST VALUE IS      0.05136 AT (  434713.24,  4247620.04,   214.20,   303.80,     0.00)  DC
           3RD HIGHEST VALUE IS      0.04594 AT (  434703.87,  4247610.67,   212.00,   303.80,     0.00)  DC
           4TH HIGHEST VALUE IS      0.04566 AT (  434629.22,  4247566.23,   211.00,   303.80,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04454 AT (  433531.66,  4248818.67,   215.80,   306.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.04397 AT (  434379.22,  4247816.23,   211.90,   303.80,     0.00)  DC
           7TH HIGHEST VALUE IS      0.04301 AT (  433631.66,  4248718.67,   210.80,   306.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.03991 AT (  433331.66,  4248918.67,   214.60,   325.70,     0.00)  DC
           9TH HIGHEST VALUE IS      0.03905 AT (  434963.24,  4247120.04,   215.30,   308.40,     0.00)  DC
          10TH HIGHEST VALUE IS      0.03708 AT (  434119.85,  4248806.86,   212.30,   316.80,     0.00)  DC

EODPOINT   1ST HIGHEST VALUE IS      0.06032 AT (  434431.66,  4247718.67,   214.40,   303.80,     0.00)  DC
           2ND HIGHEST VALUE IS      0.05136 AT (  434713.24,  4247620.04,   214.20,   303.80,     0.00)  DC
           3RD HIGHEST VALUE IS      0.04594 AT (  434703.87,  4247610.67,   212.00,   303.80,     0.00)  DC
           4TH HIGHEST VALUE IS      0.04566 AT (  434629.22,  4247566.23,   211.00,   303.80,     0.00)  DC
           5TH HIGHEST VALUE IS      0.04454 AT (  433531.66,  4248818.67,   215.80,   306.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.04397 AT (  434379.22,  4247816.23,   211.90,   303.80,     0.00)  DC
           7TH HIGHEST VALUE IS      0.04301 AT (  433631.66,  4248718.67,   210.80,   306.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.03991 AT (  433331.66,  4248918.67,   214.60,   325.70,     0.00)  DC
           9TH HIGHEST VALUE IS      0.03905 AT (  434963.24,  4247120.04,   215.30,   308.40,     0.00)  DC
          10TH HIGHEST VALUE IS      0.03708 AT (  434119.85,  4248806.86,   212.30,   316.80,     0.00)  DC

EODRAILF   1ST HIGHEST VALUE IS      0.04043 AT (  432831.66,  4248218.67,   182.40,   314.60,     0.00)  DC
           2ND HIGHEST VALUE IS      0.03977 AT (  432583.00,  4248215.06,   181.73,   314.57,     0.00)  DC
           3RD HIGHEST VALUE IS      0.03482 AT (  432931.66,  4248218.67,   182.50,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.03414 AT (  432831.66,  4248318.67,   182.30,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.03277 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           6TH HIGHEST VALUE IS      0.03112 AT (  433131.66,  4248018.67,   184.00,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.03047 AT (  433231.66,  4248018.67,   184.60,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.02996 AT (  432879.22,  4248066.23,   181.80,   314.60,     0.00)  DC
           9TH HIGHEST VALUE IS      0.02977 AT (  432879.22,  4248316.23,   181.30,   314.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.02970 AT (  432703.87,  4248110.67,   181.80,   314.60,     0.00)  DC

EODPUMPF   1ST HIGHEST VALUE IS      0.07525 AT (  431731.66,  4249218.67,   185.40,   328.30,     0.00)  DC
           2ND HIGHEST VALUE IS      0.07258 AT (  431742.99,  4249230.00,   186.00,   328.30,     0.00)  DC
           3RD HIGHEST VALUE IS      0.06921 AT (  431386.12,  4248944.69,   182.00,   328.25,     0.00)  DC
           4TH HIGHEST VALUE IS      0.06838 AT (  432831.66,  4248218.67,   182.40,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.06563 AT (  432831.66,  4248318.67,   182.30,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.06376 AT (  432931.66,  4248218.67,   182.50,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.06113 AT (  432114.34,  4249063.48,   183.18,   326.46,     0.00)  DC
           8TH HIGHEST VALUE IS      0.05750 AT (  432292.99,  4249080.00,   186.20,   326.50,     0.00)  DC
           9TH HIGHEST VALUE IS      0.05726 AT (  432879.22,  4248316.23,   181.30,   314.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.05619 AT (  432342.99,  4249080.00,   186.20,   326.50,     0.00)  DC
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
EODTANKF	1ST HIGHEST VALUE IS	0.03977 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00) DC	
	2ND HIGHEST VALUE IS	0.03756 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00) DC	
	3RD HIGHEST VALUE IS	0.03501 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00) DC	
	4TH HIGHEST VALUE IS	0.03408 AT	432831.66,	4248218.67,	182.40,	314.60,	0.00) DC	
	5TH HIGHEST VALUE IS	0.03345 AT	432831.66,	4248318.67,	182.30,	314.60,	0.00) DC	
	6TH HIGHEST VALUE IS	0.03292 AT	431692.99,	4249230.00,	185.80,	328.30,	0.00) DC	
	7TH HIGHEST VALUE IS	0.03155 AT	432931.66,	4248218.67,	182.50,	314.60,	0.00) DC	
	8TH HIGHEST VALUE IS	0.03088 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00) DC	
	9TH HIGHEST VALUE IS	0.03002 AT	432879.22,	4248316.23,	181.30,	314.60,	0.00) DC	
	10TH HIGHEST VALUE IS	0.02958 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00) DC	
EODFLARF	1ST HIGHEST VALUE IS	0.01372 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00) DC	
	2ND HIGHEST VALUE IS	0.01304 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00) DC	
	3RD HIGHEST VALUE IS	0.01278 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00) DC	
	4TH HIGHEST VALUE IS	0.01201 AT	431792.99,	4249230.00,	186.20,	328.30,	0.00) DC	
	5TH HIGHEST VALUE IS	0.01099 AT	431931.66,	4249218.67,	187.70,	326.50,	0.00) DC	
	6TH HIGHEST VALUE IS	0.01099 AT	432831.66,	4248318.67,	182.30,	314.60,	0.00) DC	
	7TH HIGHEST VALUE IS	0.01069 AT	431792.99,	4249280.00,	187.80,	328.30,	0.00) DC	
	8TH HIGHEST VALUE IS	0.01034 AT	432879.22,	4248316.23,	181.30,	314.60,	0.00) DC	
	9TH HIGHEST VALUE IS	0.01031 AT	431942.99,	4249230.00,	187.60,	326.50,	0.00) DC	
	10TH HIGHEST VALUE IS	0.01019 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00) DC	
EODR25F	1ST HIGHEST VALUE IS	0.04237 AT	431931.66,	4249218.67,	187.70,	326.50,	0.00) DC	
	2ND HIGHEST VALUE IS	0.03833 AT	431892.99,	4249230.00,	187.60,	326.50,	0.00) DC	
	3RD HIGHEST VALUE IS	0.03265 AT	431992.99,	4249180.00,	186.60,	326.50,	0.00) DC	
	4TH HIGHEST VALUE IS	0.03147 AT	431942.99,	4249230.00,	187.60,	326.50,	0.00) DC	
	5TH HIGHEST VALUE IS	0.02403 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00) DC	
	6TH HIGHEST VALUE IS	0.01857 AT	431831.66,	4249218.67,	186.20,	328.30,	0.00) DC	
	7TH HIGHEST VALUE IS	0.01825 AT	432042.99,	4249180.00,	186.60,	326.50,	0.00) DC	
	8TH HIGHEST VALUE IS	0.01687 AT	432142.99,	4249130.00,	186.10,	326.50,	0.00) DC	
	9TH HIGHEST VALUE IS	0.01642 AT	431842.99,	4249230.00,	186.80,	328.30,	0.00) DC	
	10TH HIGHEST VALUE IS	0.01291 AT	432192.99,	4249130.00,	186.80,	326.50,	0.00) DC	
EODFUGI	1ST HIGHEST VALUE IS	0.16189 AT	432114.34,	4249063.48,	183.18,	326.46,	0.00) DC	
	2ND HIGHEST VALUE IS	0.15553 AT	431731.66,	4249218.67,	185.40,	328.30,	0.00) DC	
	3RD HIGHEST VALUE IS	0.15221 AT	432831.66,	4248218.67,	182.40,	314.60,	0.00) DC	
	4TH HIGHEST VALUE IS	0.15087 AT	431386.12,	4248944.69,	182.00,	328.25,	0.00) DC	
	5TH HIGHEST VALUE IS	0.14880 AT	431742.99,	4249230.00,	186.00,	328.30,	0.00) DC	
	6TH HIGHEST VALUE IS	0.14538 AT	432831.66,	4248318.67,	182.30,	314.60,	0.00) DC	
	7TH HIGHEST VALUE IS	0.14081 AT	431931.66,	4249218.67,	187.70,	326.50,	0.00) DC	
	8TH HIGHEST VALUE IS	0.14010 AT	432931.66,	4248218.67,	182.50,	314.60,	0.00) DC	
	9TH HIGHEST VALUE IS	0.12842 AT	432879.22,	4248316.23,	181.30,	314.60,	0.00) DC	
	10TH HIGHEST VALUE IS	0.12728 AT	432292.99,	4249080.00,	186.20,	326.50,	0.00) DC	

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                            PAGE   6
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

EODIST     1ST HIGHEST VALUE IS      0.16629 AT (  432114.34,  4249063.48,   183.18,   326.46,    0.00)  DC
           2ND HIGHEST VALUE IS      0.16324 AT (  431731.66,  4249218.67,   185.40,   328.30,    0.00)  DC
           3RD HIGHEST VALUE IS      0.15821 AT (  431742.99,  4249230.00,   186.00,   328.30,    0.00)  DC
           4TH HIGHEST VALUE IS      0.15725 AT (  432831.66,  4248218.67,   182.40,   314.60,    0.00)  DC
           5TH HIGHEST VALUE IS      0.15382 AT (  431931.66,  4249218.67,   187.70,   326.50,    0.00)  DC
           6TH HIGHEST VALUE IS      0.15103 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
           7TH HIGHEST VALUE IS      0.14983 AT (  432831.66,  4248318.67,   182.30,   314.60,    0.00)  DC
           8TH HIGHEST VALUE IS      0.14496 AT (  432931.66,  4248218.67,   182.50,   314.60,    0.00)  DC
           9TH HIGHEST VALUE IS      0.13815 AT (  431942.99,  4249230.00,   187.60,   326.50,    0.00)  DC
          10TH HIGHEST VALUE IS      0.13431 AT (  432292.99,  4249080.00,   186.20,   326.50,    0.00)  DC

221A       1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

230M       1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)

230L       1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,    0.00)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                            PAGE   7
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

230K      1ST HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)

230O      1ST HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)

230HH     1ST HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)

PPOINT    1ST HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (      0.00,      0.00,     0.00,     0.00,     0.00)
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                            PAGE   8
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

POLYVOL1   1ST HIGHEST VALUE IS      0.01599 AT (  432583.00,  4248215.06,   181.73,   314.57,     0.00)  DC
           2ND HIGHEST VALUE IS      0.01238 AT (  432703.87,  4248110.67,   181.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.00884 AT (  432831.66,  4248018.67,   181.50,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.00864 AT (  432731.66,  4248018.67,   181.90,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00791 AT (  432879.22,  4248066.23,   181.80,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00752 AT (  432931.66,  4248018.67,   181.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00624 AT (  433031.66,  4247918.67,   182.00,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00623 AT (  432931.66,  4247918.67,   181.90,   314.60,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00580 AT (  432831.66,  4248318.67,   182.30,   314.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00558 AT (  432831.66,  4247918.67,   181.70,   314.60,     0.00)  DC

PBL8389    1ST HIGHEST VALUE IS      0.00393 AT (  432831.66,  4248518.67,   181.80,   325.70,     0.00)  DC
           2ND HIGHEST VALUE IS      0.00347 AT (  432931.66,  4248518.67,   183.30,   325.70,     0.00)  DC
           3RD HIGHEST VALUE IS      0.00340 AT (  432879.22,  4248566.23,   182.50,   325.70,     0.00)  DC
           4TH HIGHEST VALUE IS      0.00302 AT (  433031.66,  4248518.67,   185.50,   325.70,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00289 AT (  432592.99,  4247930.00,   181.10,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00279 AT (  433129.22,  4248566.23,   186.90,   325.70,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00275 AT (  432931.66,  4248418.67,   182.10,   316.30,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00274 AT (  432731.66,  4248018.67,   181.90,   314.60,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00273 AT (  432931.66,  4248618.67,   184.60,   325.70,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00273 AT (  433031.66,  4248618.67,   185.40,   325.70,     0.00)  DC

PFUGIT     1ST HIGHEST VALUE IS      0.01769 AT (  432583.00,  4248215.06,   181.73,   314.57,     0.00)  DC
           2ND HIGHEST VALUE IS      0.01474 AT (  432703.87,  4248110.67,   181.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.01138 AT (  432731.66,  4248018.67,   181.90,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.01132 AT (  432831.66,  4248018.67,   181.50,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00990 AT (  432879.22,  4248066.23,   181.80,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00964 AT (  432931.66,  4248018.67,   181.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00869 AT (  432931.66,  4247918.67,   181.90,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00847 AT (  433031.66,  4247918.67,   182.00,   314.60,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00823 AT (  432592.99,  4247930.00,   181.10,   314.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00822 AT (  432831.66,  4247918.67,   181.70,   314.60,     0.00)  DC

POLYOX     1ST HIGHEST VALUE IS      0.01769 AT (  432583.00,  4248215.06,   181.73,   314.57,     0.00)  DC
           2ND HIGHEST VALUE IS      0.01474 AT (  432703.87,  4248110.67,   181.80,   314.60,     0.00)  DC
           3RD HIGHEST VALUE IS      0.01138 AT (  432731.66,  4248018.67,   181.90,   314.60,     0.00)  DC
           4TH HIGHEST VALUE IS      0.01132 AT (  432831.66,  4248018.67,   181.50,   314.60,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00990 AT (  432879.22,  4248066.23,   181.80,   314.60,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00964 AT (  432931.66,  4248018.67,   181.80,   314.60,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00869 AT (  432931.66,  4247918.67,   181.90,   314.60,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00847 AT (  433031.66,  4247918.67,   182.00,   314.60,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00823 AT (  432592.99,  4247930.00,   181.10,   314.60,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00822 AT (  432831.66,  4247918.67,   181.70,   314.60,     0.00)  DC
```

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                            PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

ALL       1ST HIGHEST VALUE IS      0.16739 AT (  432114.34,  4249063.48,   183.18,   326.46,    0.00)  DC
          2ND HIGHEST VALUE IS      0.16394 AT (  431731.66,  4249218.67,   185.40,   328.30,    0.00)  DC
          3RD HIGHEST VALUE IS      0.16338 AT (  432831.66,  4248218.67,   182.40,   314.60,    0.00)  DC
          4TH HIGHEST VALUE IS      0.15889 AT (  431742.99,  4249230.00,   186.00,   328.30,    0.00)  DC
          5TH HIGHEST VALUE IS      0.15800 AT (  432831.66,  4248318.67,   182.30,   314.60,    0.00)  DC
          6TH HIGHEST VALUE IS      0.15439 AT (  431931.66,  4249218.67,   187.70,   326.50,    0.00)  DC
          7TH HIGHEST VALUE IS      0.15172 AT (  431386.12,  4248944.69,   182.00,   328.25,    0.00)  DC
          8TH HIGHEST VALUE IS      0.15023 AT (  432931.66,  4248218.67,   182.50,   314.60,    0.00)  DC
          9TH HIGHEST VALUE IS      0.14437 AT (  432583.00,  4248215.06,   181.73,   314.57,    0.00)  DC
         10TH HIGHEST VALUE IS      0.14003 AT (  432879.22,  4248316.23,   181.30,   314.60,    0.00)  DC


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

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - Institute                                  ***        08/23/22
*** AERMET - VERSION  22112 ***   *** Ethylene Oxide Distribution AND Polyox Processes            ***        16:01:46
                                                                                                          PAGE  10

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           20 Warning Message(s)
A Total of            2 Informational Message(s)

A Total of           24 Hours Were Processed

A Total of            0 Calm Hours Identified

A Total of            0 Missing Hours Identified (  0.00 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      16        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      17        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      18        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      19        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      19        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      20        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      29       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      44       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      45       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      46       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      47       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      48       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54       PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
```
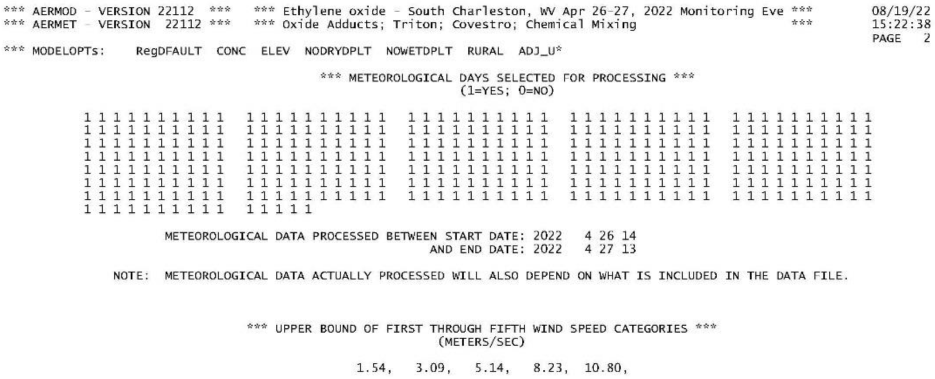

April Monitoring Event AERMOD Summary File: South Charleston

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                     ***        15:22:38
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  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 RURAL Dispersion Only.
     * Option for Capped & Horiz Stacks Selected With:
       0 Capped Stack(s); and         3 Horizontal Stack(s)
     * 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: OTHER

**Model Calculates PERIOD Averages Only

**This Run Includes:    119 Source(s);      33 Source Group(s); and   15537 Receptor(s)

               with:    102 POINT(s), including
                          0 POINTCAP(s) and      3 POINTHOR(s)
                 and:    15 VOLUME source(s)
                 and:     1 AREA type source(s)
                 and:     1 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)


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

**The AERMET Input Meteorological Data Version Date:  22112

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   180.24 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     20.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   error.fil
**File for Summary of Results:   Summary.sum
```



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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                     ***        15:22:38
                                                                                                                      PAGE   2
*** MODELOPTs:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                         *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                            (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022   4 26 14
                                                        AND END DATE: 2022   4 27 13

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                           (METERS/SEC)

                                                1.54,   3.09,   5.14,   8.23,  10.80,
```

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        15:22:38
                                                                                                                    PAGE   3

*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                        *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   SC_APR_22.SFC                                                                  Met Version:  22112
  Profile file:   SC_APR_22.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    13866                 Upper air station no.:    53829
                Name: INSTITUTE/SOUTH CHARLESTON SITE, WV        Name: UNKNOWN
                Year:   2022                                     Year:   2022

First 24 hours of scalar data
YR MO DY JDY HR     HO     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    ZO  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
-- -- -- --- -- ------ ------ ------ ------ ------ ------ --------- ----- ------ ------ ------ ---- ------ ------ ------
22 04 26 116 01  -20.6  0.216 -9.000 -9.000 -999.  241.      51.3  0.07   0.63   1.00   2.86  339.  10.0  288.8    2.0
22 04 26 116 02   -8.4  0.168 -9.000 -9.000 -999.  165.      49.1  0.05   0.63   0.43   2.36    3.  10.0  288.1    2.0
22 04 26 116 03   12.4 -9.000 -9.000 -9.000   48.  -999. -99999.0  0.05   0.63   0.22   0.00    0.  10.0  287.5    2.0
22 04 26 116 04   27.3  0.199  0.407  0.006   86.  213.     -25.3  0.02   0.63   0.17   2.86  322.  10.0  286.4    2.0
22 04 26 116 05   39.1  0.331  0.600  0.005  194.  457.     -81.3  0.07   0.63   0.16   3.86  330.  10.0  285.9    2.0
22 04 26 116 06   46.8  0.245  0.763  0.005  333.  295.     -27.6  0.05   0.63   0.16   2.86  999.  10.0  284.2    2.0
22 04 26 116 07   50.6  0.207  0.850  0.005  425.  226.     -15.3  0.02   0.63   0.16   2.86  315.  10.0  284.2    2.0
22 04 26 116 08   50.5 -9.000 -9.000 -9.000  489. -999. -99999.0  0.05   0.63   0.16   0.00    0.  10.0  284.2    2.0
22 04 26 116 09   46.3 -9.000 -9.000 -9.000  542. -999. -99999.0  0.05   0.63   0.16   0.00    0.  10.0  284.2    2.0
22 04 26 116 10   37.8  0.261  0.855  0.005  581.  320.     -41.3  0.02   0.63   0.16   3.86  306.  10.0  283.8    2.0
22 04 26 116 11   25.5  0.198  0.760  0.005  604.  213.     -26.9  0.02   0.63   0.18   2.86  305.  10.0  283.1    2.0
22 04 26 116 12   10.1  0.131  0.562  0.005  614.  115.     -19.5  0.02   0.63   0.23   1.76  286.  10.0  283.1    2.0
22 04 26 116 13  -13.0  0.190 -9.000 -9.000 -999.  198.      46.3  0.03   0.63   0.46   2.86  262.  10.0  283.8    2.0
22 04 26 116 14  -25.6  0.263 -9.000 -9.000 -999.  324.      76.3  0.08   0.63   1.00   3.36  234.  10.0  284.2    2.0
22 04 26 116 15  -19.8  0.205 -9.000 -9.000 -999.  223.      46.1  0.02   0.63   1.00   3.36  290.  10.0  284.8    2.0
22 04 26 116 16  -14.5  0.164 -9.000 -9.000 -999.  160.      29.7  0.05   0.63   1.00   2.36  999.  10.0  286.4    2.0
22 04 26 116 17  -28.0  0.292 -9.000 -9.000 -999.  379.      94.1  0.03   0.63   1.00   4.36  255.  10.0  287.5    2.0
22 04 26 116 18  -22.7  0.237 -9.000 -9.000 -999.  278.      61.6  0.02   0.63   1.00   3.86  295.  10.0  287.5    2.0
22 04 26 116 19  -22.8  0.237 -9.000 -9.000 -999.  276.      61.6  0.02   0.63   1.00   3.86  296.  10.0  286.4    2.0
22 04 26 116 20  -36.2  0.372 -9.000 -9.000 -999.  545.     152.3  0.02   0.63   1.00   5.96  296.  10.0  284.2    2.0
22 04 26 116 21   -5.8  0.098 -9.000 -9.000 -999.  203.      14.1  0.02   0.63   1.00   1.76  318.  10.0  283.1    2.0
22 04 26 116 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05   0.63   1.00   0.00    0.  10.0  282.0    2.0
22 04 26 116 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05   0.63   1.00   0.00    0.  10.0  279.8    2.0
22 04 26 116 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.05   0.63   1.00   0.00    0.  10.0  278.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
22 04 26 01   10.0 1  339.    2.86   288.8   99.0  -99.00  -99.00

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

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        15:22:38
                                                                                                                     PAGE   4
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

CHMIX      1ST HIGHEST VALUE IS      0.01000 AT (  440377.01,  4246733.81,   183.70,   284.10,     0.00)  DC
           2ND HIGHEST VALUE IS      0.00651 AT (  440427.01,  4246683.81,   183.10,   284.10,     0.00)  DC
           3RD HIGHEST VALUE IS      0.00475 AT (  440377.01,  4246683.81,   183.40,   284.10,     0.00)  DC
           4TH HIGHEST VALUE IS      0.00471 AT (  440427.01,  4246633.81,   182.50,   322.90,     0.00)  DC
           5TH HIGHEST VALUE IS      0.00465 AT (  440477.01,  4246633.81,   182.50,   322.90,     0.00)  DC
           6TH HIGHEST VALUE IS      0.00457 AT (  440415.68,  4246722.48,   183.30,   284.10,     0.00)  DC
           7TH HIGHEST VALUE IS      0.00457 AT (  440463.24,  4246620.04,   185.50,   302.70,     0.00)  DC
           8TH HIGHEST VALUE IS      0.00348 AT (  440477.01,  4246583.81,   185.60,   322.90,     0.00)  DC
           9TH HIGHEST VALUE IS      0.00309 AT (  440527.01,  4246583.81,   185.50,   322.90,     0.00)  DC
          10TH HIGHEST VALUE IS      0.00262 AT (  440327.01,  4246733.81,   184.40,   284.10,     0.00)  DC

1RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

2RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)

3RX        1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
           9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
789RX	1ST HIGHEST VALUE IS	0.01051 AT	440515.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00879 AT	440577.01,	4246783.81,	173.10,	311.20,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00702 AT	440477.01,	4247233.81,	173.10,	182.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00533 AT	440527.01,	4247283.81,	173.10,	272.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00504 AT	440815.68,	4246522.48,	184.50,	311.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00491 AT	440515.68,	4247222.48,	173.10,	182.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00474 AT	440527.01,	4247233.81,	173.10,	182.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00458 AT	440477.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00436 AT	441015.68,	4246722.48,	173.10,	311.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00420 AT	440577.01,	4247183.81,	173.10,	182.20,	0.00)	DC
CPOINT	1ST HIGHEST VALUE IS	0.01051 AT	440515.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00879 AT	440577.01,	4246783.81,	173.10,	311.20,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00702 AT	440477.01,	4247233.81,	173.10,	182.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00533 AT	440527.01,	4247283.81,	173.10,	272.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00504 AT	440815.68,	4246522.48,	184.50,	311.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00491 AT	440515.68,	4247222.48,	173.10,	182.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00474 AT	440527.01,	4247233.81,	173.10,	182.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00458 AT	440477.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00436 AT	441015.68,	4246722.48,	173.10,	311.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00420 AT	440577.01,	4247183.81,	173.10,	182.20,	0.00)	DC
CEO03F	1ST HIGHEST VALUE IS	0.01286 AT	440115.68,	4247022.48,	173.10,	184.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01167 AT	440015.68,	4247322.48,	173.10,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01155 AT	440177.01,	4246983.81,	173.10,	183.90,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01082 AT	440077.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01082 AT	440077.01,	4247283.81,	173.10,	272.80,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01034 AT	440027.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00999 AT	440127.01,	4246983.81,	173.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00987 AT	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00981 AT	440227.01,	4246933.81,	173.10,	183.90,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00883 AT	440115.68,	4247322.48,	173.10,	305.60,	0.00)	DC
CPIVF	1ST HIGHEST VALUE IS	0.02858 AT	440515.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02352 AT	440577.01,	4246783.81,	173.10,	311.20,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01713 AT	440627.01,	4246783.81,	173.10,	311.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01625 AT	440619.85,	4246806.86,	173.10,	310.70,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01557 AT	440615.68,	4246822.48,	173.10,	302.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01444 AT	440477.01,	4247233.81,	173.10,	182.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01380 AT	440677.01,	4246583.81,	183.60,	311.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01373 AT	440815.68,	4246522.48,	184.50,	311.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01239 AT	440515.68,	4247222.48,	173.10,	182.20,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01186 AT	440615.68,	4246622.48,	183.10,	311.20,	0.00)	DC

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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        15:22:38
                                                                                                                     PAGE   6
*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

CFUGIT     1ST HIGHEST VALUE IS      0.03119 AT (  440515.68,  4246822.48,   173.10,   302.70,    0.00)  DC
           2ND HIGHEST VALUE IS      0.02572 AT (  440577.01,  4246783.81,   173.10,   311.20,    0.00)  DC
           3RD HIGHEST VALUE IS      0.01944 AT (  440627.01,  4246783.81,   173.10,   311.20,    0.00)  DC
           4TH HIGHEST VALUE IS      0.01894 AT (  440619.85,  4246806.86,   173.10,   310.70,    0.00)  DC
           5TH HIGHEST VALUE IS      0.01860 AT (  440615.68,  4246822.48,   173.10,   302.70,    0.00)  DC
           6TH HIGHEST VALUE IS      0.01663 AT (  440677.01,  4246583.81,   183.60,   311.20,    0.00)  DC
           7TH HIGHEST VALUE IS      0.01545 AT (  440615.68,  4246622.48,   183.10,   311.20,    0.00)  DC
           8TH HIGHEST VALUE IS      0.01514 AT (  440815.68,  4246522.48,   184.50,   311.20,    0.00)  DC
           9TH HIGHEST VALUE IS      0.01483 AT (  440477.01,  4247233.81,   173.10,   182.10,    0.00)  DC
          10TH HIGHEST VALUE IS      0.01404 AT (  440115.68,  4247022.48,   173.10,   184.10,    0.00)  DC

COVESTRO   1ST HIGHEST VALUE IS      0.04170 AT (  440515.68,  4246822.48,   173.10,   302.70,    0.00)  DC
           2ND HIGHEST VALUE IS      0.03451 AT (  440577.01,  4246783.81,   173.10,   311.20,    0.00)  DC
           3RD HIGHEST VALUE IS      0.02349 AT (  440627.01,  4246783.81,   173.10,   311.20,    0.00)  DC
           4TH HIGHEST VALUE IS      0.02263 AT (  440619.85,  4246806.86,   173.10,   310.70,    0.00)  DC
           5TH HIGHEST VALUE IS      0.02209 AT (  440615.68,  4246822.48,   173.10,   302.70,    0.00)  DC
           6TH HIGHEST VALUE IS      0.02185 AT (  440477.01,  4247233.81,   173.10,   182.10,    0.00)  DC
           7TH HIGHEST VALUE IS      0.02027 AT (  440677.01,  4246583.81,   183.60,   311.20,    0.00)  DC
           8TH HIGHEST VALUE IS      0.02018 AT (  440815.68,  4246522.48,   184.50,   311.20,    0.00)  DC
           9TH HIGHEST VALUE IS      0.01805 AT (  440615.68,  4246622.48,   183.10,   311.20,    0.00)  DC
          10TH HIGHEST VALUE IS      0.01760 AT (  440515.68,  4247222.48,   173.10,   182.20,    0.00)  DC

TE10813    1ST HIGHEST VALUE IS      0.01007 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00934 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00881 AT (  440815.68,  4246422.48,   206.50,   311.20,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00810 AT (  440315.68,  4247322.48,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00798 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00785 AT (  440327.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00774 AT (  440277.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00723 AT (  440415.68,  4247422.48,   181.60,   272.80,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00700 AT (  440377.01,  4247383.81,   173.10,   272.80,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00699 AT (  440327.01,  4247283.81,   173.10,   272.80,    0.00)  DC

T_L_ALL    1ST HIGHEST VALUE IS      0.00389 AT (  440227.01,  4246983.81,   173.10,   183.90,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00305 AT (  440277.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00288 AT (  440315.68,  4246922.48,   173.10,   283.60,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00281 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00273 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00201 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00164 AT (  440177.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00154 AT (  440227.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00145 AT (  440477.01,  4246683.81,   183.10,   302.70,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00144 AT (  440577.01,  4246633.81,   183.20,   311.20,    0.00)  DC
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        15:22:38
                                                                                                                      PAGE   7

*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

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

T_T_ALL    1ST HIGHEST VALUE IS      0.00539 AT (  440177.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00439 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00384 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00362 AT (  440215.68,  4247322.48,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00335 AT (  440315.68,  4246922.48,   173.10,   283.60,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00323 AT (  440227.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00316 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00296 AT (  440277.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00252 AT (  440127.01,  4247283.81,   173.10,   272.80,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00242 AT (  440315.68,  4247322.48,   173.10,   272.80,    0.00)  DC

T_POINT    1ST HIGHEST VALUE IS      0.01727 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           2ND HIGHEST VALUE IS      0.01455 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           3RD HIGHEST VALUE IS      0.01451 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           4TH HIGHEST VALUE IS      0.01334 AT (  440177.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.01280 AT (  440315.68,  4246922.48,   173.10,   283.60,    0.00)  DC
           6TH HIGHEST VALUE IS      0.01213 AT (  440277.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           7TH HIGHEST VALUE IS      0.01191 AT (  440315.68,  4247322.48,   173.10,   272.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.01137 AT (  440327.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           9TH HIGHEST VALUE IS      0.01136 AT (  440215.68,  4247322.48,   173.10,   272.80,    0.00)  DC
          10TH HIGHEST VALUE IS      0.01073 AT (  440327.01,  4247283.81,   173.10,   272.80,    0.00)  DC

THF        1ST HIGHEST VALUE IS      0.00257 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00253 AT (  440177.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00144 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00119 AT (  440277.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00114 AT (  440215.68,  4247322.48,   173.10,   272.80,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00104 AT (  440515.68,  4246822.48,   173.10,   302.70,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00095 AT (  440227.01,  4247333.81,   173.10,   272.80,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00094 AT (  440327.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00086 AT (  440315.68,  4247322.48,   173.10,   272.80,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00078 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC

TRF        1ST HIGHEST VALUE IS      0.00262 AT (  440327.01,  4246933.81,   173.10,   183.90,    0.00)  DC
           2ND HIGHEST VALUE IS      0.00218 AT (  440315.68,  4246922.48,   173.10,   283.60,    0.00)  DC
           3RD HIGHEST VALUE IS      0.00204 AT (  440227.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           4TH HIGHEST VALUE IS      0.00198 AT (  440277.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           5TH HIGHEST VALUE IS      0.00142 AT (  440327.01,  4247283.81,   173.10,   272.80,    0.00)  DC
           6TH HIGHEST VALUE IS      0.00139 AT (  440315.68,  4247322.48,   173.10,   272.80,    0.00)  DC
           7TH HIGHEST VALUE IS      0.00138 AT (  440615.68,  4246622.48,   183.10,   311.20,    0.00)  DC
           8TH HIGHEST VALUE IS      0.00138 AT (  440577.01,  4246633.81,   183.20,   311.20,    0.00)  DC
           9TH HIGHEST VALUE IS      0.00135 AT (  440277.01,  4246933.81,   173.10,   183.90,    0.00)  DC
          10TH HIGHEST VALUE IS      0.00127 AT (  440627.01,  4246583.81,   184.60,   311.20,    0.00)  DC
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*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        15:22:38
                                                                                                                     PAGE   8

*** MODELOPTS:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                      **

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

TFNC      1ST HIGHEST VALUE IS      0.00413 AT (  440077.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          2ND HIGHEST VALUE IS      0.00299 AT (  440077.01,  4247333.81,   173.10,   327.10,     0.00)  DC
          3RD HIGHEST VALUE IS      0.00251 AT (  440227.01,  4246983.81,   173.10,   183.90,     0.00)  DC
          4TH HIGHEST VALUE IS      0.00220 AT (  440119.85,  4247306.86,   173.10,   272.80,     0.00)  DC
          5TH HIGHEST VALUE IS      0.00202 AT (  440277.01,  4246933.81,   173.10,   183.90,     0.00)  DC
          6TH HIGHEST VALUE IS      0.00200 AT (  440115.68,  4247322.48,   173.10,   305.60,     0.00)  DC
          7TH HIGHEST VALUE IS      0.00170 AT (  440315.68,  4246922.48,   173.10,   283.60,     0.00)  DC
          8TH HIGHEST VALUE IS      0.00169 AT (  440127.01,  4247333.81,   173.10,   305.60,     0.00)  DC
          9TH HIGHEST VALUE IS      0.00149 AT (  440127.01,  4247283.81,   173.10,   272.80,     0.00)  DC
         10TH HIGHEST VALUE IS      0.00136 AT (  440327.01,  4246933.81,   173.10,   183.90,     0.00)  DC

T_FUGIT   1ST HIGHEST VALUE IS      0.00495 AT (  440227.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          2ND HIGHEST VALUE IS      0.00476 AT (  440327.01,  4246933.81,   173.10,   183.90,     0.00)  DC
          3RD HIGHEST VALUE IS      0.00467 AT (  440077.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          4TH HIGHEST VALUE IS      0.00429 AT (  440315.68,  4246922.48,   173.10,   283.60,     0.00)  DC
          5TH HIGHEST VALUE IS      0.00404 AT (  440177.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          6TH HIGHEST VALUE IS      0.00362 AT (  440277.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          7TH HIGHEST VALUE IS      0.00350 AT (  440277.01,  4246933.81,   173.10,   183.90,     0.00)  DC
          8TH HIGHEST VALUE IS      0.00347 AT (  440227.01,  4246983.81,   173.10,   183.90,     0.00)  DC
          9TH HIGHEST VALUE IS      0.00325 AT (  440077.01,  4247333.81,   173.10,   327.10,     0.00)  DC
         10TH HIGHEST VALUE IS      0.00302 AT (  440277.01,  4247333.81,   173.10,   272.80,     0.00)  DC

TRITON    1ST HIGHEST VALUE IS      0.02222 AT (  440227.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          2ND HIGHEST VALUE IS      0.01931 AT (  440327.01,  4246933.81,   173.10,   183.90,     0.00)  DC
          3RD HIGHEST VALUE IS      0.01813 AT (  440277.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          4TH HIGHEST VALUE IS      0.01737 AT (  440177.01,  4247283.81,   173.10,   272.80,     0.00)  DC
          5TH HIGHEST VALUE IS      0.01709 AT (  440315.68,  4246922.48,   173.10,   283.60,     0.00)  DC
          6TH HIGHEST VALUE IS      0.01515 AT (  440277.01,  4247333.81,   173.10,   272.80,     0.00)  DC
          7TH HIGHEST VALUE IS      0.01458 AT (  440315.68,  4247322.48,   173.10,   272.80,     0.00)  DC
          8TH HIGHEST VALUE IS      0.01412 AT (  440215.68,  4247322.48,   173.10,   272.80,     0.00)  DC
          9TH HIGHEST VALUE IS      0.01386 AT (  440327.01,  4247333.81,   173.10,   272.80,     0.00)  DC
         10TH HIGHEST VALUE IS      0.01323 AT (  440277.01,  4246933.81,   173.10,   183.90,     0.00)  DC

OA_E70XP  1ST HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          2ND HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          3RD HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          4TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          5TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          6TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          7TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          8TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
          9TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
         10TH HIGHEST VALUE IS      0.00000 AT (       0.00,        0.00,     0.00,     0.00,     0.00)
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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** 08/19/22
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing *** 15:22:38
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*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OA_TALLP	1ST HIGHEST VALUE IS	0.00267 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00182 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00168 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00150 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00149 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00138 AT	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00138 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00131 AT	440027.01,	4246783.81,	182.00,	282.30,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00121 AT	440027.01,	4246833.81,	183.70,	183.70,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00120 AT	440027.01,	4246733.81,	183.10,	284.10,	0.00)	DC
OA_LALLP	1ST HIGHEST VALUE IS	0.00118 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00066 AT	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00060 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00053 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00052 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00052 AT	439927.01,	4246783.81,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00042 AT	439977.01,	4246733.81,	183.80,	284.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00040 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00036 AT	440015.68,	4246722.48,	182.70,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00035 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
OA_POINT	1ST HIGHEST VALUE IS	0.00319 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00267 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00205 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00202 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00191 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00179 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00178 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00153 AT	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00151 AT	440027.01,	4246733.81,	183.10,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00150 AT	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC
OAHR2F	1ST HIGHEST VALUE IS	0.02632 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02368 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01964 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01644 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01557 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01512 AT	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01410 AT	440027.01,	4246833.81,	183.70,	183.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01331 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01313 AT	440027.01,	4246783.81,	182.00,	282.30,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01265 AT	439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OAR45F	1ST HIGHEST VALUE IS	0.03308 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	2ND HIGHEST VALUE IS	0.02593 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.02348 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.02346 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01922 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01734 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01656 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01646 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01631 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.01441 AT	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
OAR6F	1ST HIGHEST VALUE IS	0.00839 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00502 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00475 AT	439915.68,	4246822.48,	183.20,	183.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00468 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00460 AT	439877.01,	4246833.81,	183.10,	183.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00395 AT	439927.01,	4246783.81,	183.20,	183.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00381 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00361 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00343 AT	439977.01,	4246733.81,	183.80,	284.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00334 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
OAR7F	1ST HIGHEST VALUE IS	0.00335 AT	439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00200 AT	439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00194 AT	439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00192 AT	439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00185 AT	439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00179 AT	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00172 AT	439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00164 AT	439977.01,	4246783.81,	184.10,	184.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00151 AT	440015.68,	4246822.48,	183.40,	183.40,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00147 AT	440027.01,	4246783.81,	182.00,	282.30,	0.00)	DC
OAWTILF	1ST HIGHEST VALUE IS	0.04531 AT	439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01626 AT	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01574 AT	439477.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01432 AT	439627.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.01361 AT	439715.68,	4247222.48,	173.10,	327.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.01209 AT	439615.68,	4247222.48,	173.00,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.01197 AT	439577.01,	4247233.81,	173.00,	327.10,	0.00)	DC
	8TH HIGHEST VALUE IS	0.01182 AT	439427.01,	4247283.81,	173.00,	327.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.01097 AT	439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00951 AT	439527.01,	4247233.81,	173.00,	327.10,	0.00)	DC

*** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (24 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
OALIBF	1ST HIGHEST VALUE IS	0.02221	AT (439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.01446	AT (439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	3RD HIGHEST VALUE IS	0.01307	AT (439927.01,	4247083.81,	173.10,	185.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.01128	AT (439915.68,	4247122.48,	173.10,	184.60,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00579	AT (439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00556	AT (439877.01,	4247333.81,	173.10,	327.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00529	AT (440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00513	AT (439915.68,	4247322.48,	173.10,	327.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00452	AT (440115.68,	4246822.48,	183.50,	183.50,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00446	AT (439927.01,	4247333.81,	173.10,	327.10,	0.00)	DC
OA_FUGIT	1ST HIGHEST VALUE IS	0.06481	AT (439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06441	AT (439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05327	AT (439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04707	AT (439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04442	AT (439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04412	AT (439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04266	AT (439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04203	AT (439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.03999	AT (440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	10TH HIGHEST VALUE IS	0.03962	AT (439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
OA_ALL	1ST HIGHEST VALUE IS	0.06760	AT (439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06611	AT (439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05429	AT (439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04713	AT (439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04679	AT (439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04647	AT (439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04394	AT (439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04392	AT (439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04165	AT (439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04079	AT (440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
UCC_SC	1ST HIGHEST VALUE IS	0.06803	AT (439877.01,	4246933.81,	184.90,	184.90,	0.00)	DC
	2ND HIGHEST VALUE IS	0.06660	AT (439777.01,	4247183.81,	173.10,	184.40,	0.00)	DC
	3RD HIGHEST VALUE IS	0.05466	AT (439727.01,	4247183.81,	173.10,	311.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.04738	AT (439619.85,	4247306.86,	180.30,	327.10,	0.00)	DC
	5TH HIGHEST VALUE IS	0.04713	AT (439827.01,	4246933.81,	186.10,	186.10,	0.00)	DC
	6TH HIGHEST VALUE IS	0.04689	AT (439963.24,	4246870.04,	184.50,	184.50,	0.00)	DC
	7TH HIGHEST VALUE IS	0.04455	AT (439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC
	8TH HIGHEST VALUE IS	0.04431	AT (439977.01,	4246833.81,	183.50,	183.50,	0.00)	DC
	9TH HIGHEST VALUE IS	0.04200	AT (440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	10TH HIGHEST VALUE IS	0.04198	AT (439927.01,	4246833.81,	183.60,	183.60,	0.00)	DC

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                      ***        15:22:38
                                                                                                                     PAGE  12
*** MODELOPTS:     RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM PERIOD (    24 HRS) RESULTS ***

                                   ** CONC OF OTHER     IN MICROGRAMS/M**3                          **

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

ALL       1ST HIGHEST VALUE IS       0.06852 AT (  439877.01,  4246933.81,   184.90,   184.90,     0.00)  DC
          2ND HIGHEST VALUE IS       0.06738 AT (  439777.01,  4247183.81,   173.10,   184.40,     0.00)  DC
          3RD HIGHEST VALUE IS       0.06628 AT (  440515.68,  4246822.48,   173.10,   302.70,     0.00)  DC
          4TH HIGHEST VALUE IS       0.05623 AT (  440577.01,  4246783.81,   173.10,   311.20,     0.00)  DC
          5TH HIGHEST VALUE IS       0.05523 AT (  439727.01,  4247183.81,   173.10,   311.00,     0.00)  DC
          6TH HIGHEST VALUE IS       0.04774 AT (  439619.85,  4247306.86,   180.30,   327.10,     0.00)  DC
          7TH HIGHEST VALUE IS       0.04754 AT (  439827.01,  4246933.81,   186.10,   186.10,     0.00)  DC
          8TH HIGHEST VALUE IS       0.04742 AT (  439963.24,  4246870.04,   184.50,   184.50,     0.00)  DC
          9TH HIGHEST VALUE IS       0.04644 AT (  440327.01,  4246933.81,   173.10,   183.90,     0.00)  DC
         10TH HIGHEST VALUE IS       0.04550 AT (  439827.01,  4247133.81,   173.10,   185.00,     0.00)  DC


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

```
*** AERMOD - VERSION 22112  ***   *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve ***        08/19/22
*** AERMET - VERSION  22112 ***   *** Oxide Adducts; Triton; Covestro; Chemical Mixing                    ***        15:22:38
                                                                                                                    PAGE  13

*** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of           58 Warning Message(s)
A Total of           14 Informational Message(s)

A Total of           24 Hours Were Processed

A Total of            9 Calm Hours Identified

A Total of            1 Missing Hours Identified (  4.17 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      21        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      22        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      23        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      23        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320      24        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      25        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      93        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      94        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      95        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      96        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      97        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320      98        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     101        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     102        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     104        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     105        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     106        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     120        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     131        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     132        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     133        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     134        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     145        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     147        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W390     198        LPARM: Aspect ratio (L/W) of LINE source greater than 100       OAWTIL
SO W320     252        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     253        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     264        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     321        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     322        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
SO W320     323        PPARM: Input Parameter May Be Out-of-Range for Parameter            QS
ME W187      28       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
OU W565      32        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      38        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      49        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      50        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      51        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      52        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      53        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      54        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      55        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      56        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      57        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      60        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      61        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      62        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      63        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      64        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      65        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      66        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      67        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      68        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      69        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      70        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      71        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
OU W565      74        PERPLT: Possible Conflict With Dynamically Allocated FUNIT     PLOTFILE
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Appendix H Excerpts of Plot Files and Total EtO Concentrations for Monitoring Locations

January Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00033	333.58	353.17	0.00	PERIOD	ALL		00000026
438708.63000	4247210.72000	0.06097	182.78	311.32	0.00	PERIOD	ALL		00000026
440101.78000	4247450.15000	0.04370	181.45	327.12	0.00	PERIOD	ALL		00000026
439525.26000	4247769.16000	0.04547	179.89	327.12	0.00	PERIOD	ALL		00000026
432583.00000	4248215.06000	0.51416	181.73	314.57	0.00	PERIOD	ALL		00000026
431998.21000	4248084.26000	0.42782	180.40	314.57	0.00	PERIOD	ALL		00000026
432114.34000	4249063.48000	0.37495	183.18	326.46	0.00	PERIOD	ALL		00000026
431386.12000	4248944.69000	0.54653	182.00	328.25	0.00	PERIOD	ALL		00000026

January Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00003	333.58	353.17	0.00	PERIOD	ALL		00000026
438708.63000	4247210.72000	0.00861	182.78	311.32	0.00	PERIOD	ALL		00000026
440101.78000	4247450.15000	0.05849	181.45	327.12	0.00	PERIOD	ALL		00000026
439525.26000	4247769.16000	0.01724	179.89	327.12	0.00	PERIOD	ALL		00000026
432583.00000	4248215.06000	0.00061	181.73	314.57	0.00	PERIOD	ALL		00000026

431998.21000 4248084.26000	0.00056	180.40	314.57	0.00	PERIOD	ALL	00000026
432114.34000 4249063.48000	0.00054	183.18	326.46	0.00	PERIOD	ALL	00000026
431386.12000 4248944.69000	0.00050	182.00	328.25	0.00	PERIOD	ALL	00000026

January Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00033	0.00003	0.00036
0	SC	438708.63	4247210.74	0.06097	0.00861	0.06958
3	SC	440101.78	4247450.16	0.04370	0.05849	0.10219
4	SC	439525.26	4247769.17	0.04547	0.01724	0.06271
10	I	432583.00	4248215.08	0.51416	0.00061	0.51477
13	I	431998.21	4248084.27	0.42782	0.00056	0.42838
14	I	432114.34	4249063.49	0.37495	0.00054	0.37549
15	I	431386.12	4248944.70	0.54653	0.0005	0.54703

February Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00076	333.58	353.17	0.00	PERIOD	ALL		00000025
438708.63000	4247210.72000	0.00526	182.78	311.32	0.00	PERIOD	ALL		00000025
440101.78000	4247450.15000	0.00451	181.45	327.12	0.00	PERIOD	ALL		00000025
439525.26000	4247769.16000	0.00480	179.89	327.12	0.00	PERIOD	ALL		00000025
432583.00000	4248215.06000	0.15073	181.73	314.57	0.00	PERIOD	ALL		00000025
431998.21000	4248084.26000	0.65099	180.40	314.57	0.00	PERIOD	ALL		00000025
432114.34000	4249063.48000	0.11597	183.18	326.46	0.00	PERIOD	ALL		00000025
431386.12000	4248944.69000	0.64299	182.00	328.25	0.00	PERIOD	ALL		00000025

February Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00037	333.58	353.17	0.00	PERIOD	ALL		00000025
438708.63000	4247210.72000	0.02577	182.78	311.32	0.00	PERIOD	ALL		00000025
440101.78000	4247450.15000	0.02148	181.45	327.12	0.00	PERIOD	ALL		00000025
439525.26000	4247769.16000	0.03422	179.89	327.12	0.00	PERIOD	ALL		00000025
432583.00000	4248215.06000	0.00144	181.73	314.57	0.00	PERIOD	ALL		00000025
431998.21000	4248084.26000	0.00133	180.40	314.57	0.00	PERIOD	ALL		00000025

432114.34000 4249063.48000	0.00134	183.18	326.46	0.00	PERIOD	ALL	00000025
431386.12000 4248944.69000	0.00126	182.00	328.25	0.00	PERIOD	ALL	00000025

February Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00076	0.00037	0.00113
0	SC	438708.63	4247210.74	0.00526	0.02577	0.03103
3	SC	440101.78	4247450.16	0.00451	0.02148	0.02599
4	SC	439525.26	4247769.17	0.0048	0.03422	0.03902
10	I	432583.00	4248215.08	0.15073	0.00144	0.15217
13	I	431998.21	4248084.27	0.65099	0.00133	0.65232
14	I	432114.34	4249063.49	0.11597	0.00134	0.11731
15	I	431386.12	4248944.70	0.64299	0.00126	0.64425

March Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00027	333.58	353.17	0.00	PERIOD	ALL		00000026
438708.63000	4247210.72000	0.03262	182.78	311.32	0.00	PERIOD	ALL		00000026
440101.78000	4247450.15000	0.02573	181.45	327.12	0.00	PERIOD	ALL		00000026
439525.26000	4247769.16000	0.02272	179.89	327.12	0.00	PERIOD	ALL		00000026
432583.00000	4248215.06000	0.35088	181.73	314.57	0.00	PERIOD	ALL		00000026
431998.21000	4248084.26000	0.33100	180.40	314.57	0.00	PERIOD	ALL		00000026
432114.34000	4249063.48000	0.72641	183.18	326.46	0.00	PERIOD	ALL		00000026
431386.12000	4248944.69000	0.57987	182.00	328.25	0.00	PERIOD	ALL		00000026

March Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00098	333.58	353.17	0.00	PERIOD	ALL		00000025
438708.63000	4247210.72000	0.03042	182.78	311.32	0.00	PERIOD	ALL		00000025
440101.78000	4247450.15000	0.12233	181.45	327.12	0.00	PERIOD	ALL		00000025
439525.26000	4247769.16000	0.07248	179.89	327.12	0.00	PERIOD	ALL		00000025
432583.00000	4248215.06000	0.00213	181.73	314.57	0.00	PERIOD	ALL		00000025
431998.21000	4248084.26000	0.00192	180.40	314.57	0.00	PERIOD	ALL		00000025

432114.34000 4249063.48000	0.00191	183.18	326.46	0.00	PERIOD	ALL	00000025
431386.12000 4248944.69000	0.00172	182.00	328.25	0.00	PERIOD	ALL	00000025

March Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00027	0.00098	0.00125
0	SC	438708.63	4247210.74	0.03262	0.03042	0.06304
3	SC	440101.78	4247450.16	0.02573	0.12233	0.14806
4	SC	439525.26	4247769.17	0.02272	0.07248	0.09520
10	I	432583.00	4248215.08	0.35088	0.00213	0.35301
13	I	431998.21	4248084.27	0.33100	0.00192	0.33292
14	I	432114.34	4249063.49	0.72641	0.00191	0.72832
15	I	431386.12	4248944.70	0.57987	0.00172	0.58159

April Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0.00013	333.58	353.17	0.00	PERIOD	ALL		00000024
438708.63000	4247210.72000	0.00318	182.78	311.32	0.00	PERIOD	ALL		00000024
440101.78000	4247450.15000	0.00484	181.45	327.12	0.00	PERIOD	ALL		00000024
439525.26000	4247769.16000	0.00629	179.89	327.12	0.00	PERIOD	ALL		00000024
432583.00000	4248215.06000	0.14437	181.73	314.57	0.00	PERIOD	ALL		00000024
431998.21000	4248084.26000	0.05382	180.40	314.57	0.00	PERIOD	ALL		00000024
432114.34000	4249063.48000	0.16739	183.18	326.46	0.00	PERIOD	ALL		00000024
431386.12000	4248944.69000	0.15172	182.00	328.25	0.00	PERIOD	ALL		00000024
420031.50000	4273465.21000	0.00029	181.17	271.57	0.00	PERIOD	ALL		00000024

April Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
440609.50000	4255132.46000	0	333.58	353.17	0.00	PERIOD	ALL		00000024
438708.63000	4247210.72000	0.00022	182.78	311.32	0.00	PERIOD	ALL		00000024
440101.78000	4247450.15000	0.01256	181.45	327.12	0.00	PERIOD	ALL		00000024
439525.26000	4247769.16000	0.00056	179.89	327.12	0.00	PERIOD	ALL		00000024
432583.00000	4248215.06000	0.00002	181.73	314.57	0.00	PERIOD	ALL		00000024

431998.21000	4248084.26000	0.00002	180.40	314.57	0.00	PERIOD ALL	00000024
432114.34000	4249063.48000	0.00002	183.18	326.46	0.00	PERIOD ALL	00000024
431386.12000	4248944.69000	0.00002	182.00	328.25	0.00	PERIOD ALL	00000024
420031.50000	4273465.21000	0	181.17	271.57	0.00	PERIOD ALL	00000024

April Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute and South Charleston Plot File Emissions Combined

ID Tag	Area	UTM Easting (m)	UTM Northing (m)	Institute Contribution (ug/m3)	South Charleston Contribution (ug/m3)	Total EtO Concentration (ug/m3)
Project Background	Guthrie	440609.50	4255132.47	0.00013	0	0.00013
0	SC	438708.63	4247210.74	0.00318	0.00022	0.00340
3	SC	440101.78	4247450.16	0.00484	0.01256	0.01740
4	SC	439525.26	4247769.17	0.00629	0.00629	0.01258
10	I	432583.00	4248215.08	0.14437	0.00002	0.14439
13	I	431998.21	4248084.27	0.05382	0.00002	0.05384
14	I	432114.34	4249063.49	0.16739	0.00002	0.16741
15	I	431386.12	4248944.70	0.15172	0.00002	0.15174
Project Background	Buffalo	420031.50	4273465.21	0.00029	0	0.00029