

### **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.	- 8

#### Oxide Adducts Point Sources

Operating?		Point Source	Emissions for DEP Monitoring Period
Yes	No		(lb)
Х		E704	0
Х		E705	0
Х		E706	0
Х		E707	0
Х		E708	0
	gg		2
x	8 - 48	T9120	0.0003229
х	8 - B	T9121	0.0003229
х		T9128	0.0003229
х	15	T9129	0.0003229
	x	T9151	0
х	F 98	T9180	0.0003229
х	S 42	T9181	0.0003229
	x	T9182	0
х		T9186	0.0003229
х		T9187	0.0003229
2012	х	T9223	0
	x	T9228	0
х		T9502	0.0003229
х		T9504	0.0003229
	х	T9505	0
	х	T9507	0
х		T9509	0.0003229
х	8 - 1 E	T9510	0.0003229
х	F 76	T9511	0.0003229
х		T9512	0.0003229
х	0: 10:	T9553	0.0003229
х	e - 18	T9554	0.0003229
х		T9555	0.0003229
х		T9556	0.0003229



x		T9562	0.0003229
х		T9563	0.0003229
х		T9565	0.0003229
x		T9568	0.0003229
х		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
х		T9622	0.0003229
х		T9624	0.0003229
х		T9625	0.0003229
	x	T9627	0
х		T9629	0.0003229
х		T9632	0.0003229
х		T9634	0.0003229
x		T9635	0.0003229
x		T9637	0.0003229
x		T9640	0.0003229
	х	T9643	0
	x	T9645	0
x		T9646	0.0003229
x		T9649	0.0003229
х	18	T9734	0.0003229
х		T9736	0.0003229
х		T9738	0.0003229
x		T9749	0.0003229
х		T9798	0.0003229
х		T9812	0.0003229
х		T9814	0.0003229
х		T9815	0.0003229
х		T9822	0.0003229
х	2	T9824	0.0003229
х		T9825	0.0003229
x		L001TT1	0.0003229
х		L001TT2	0.0003229
	х	L001TT3	0
	x	L001TT4	0



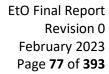
	x	L001TT5	0
56	x	L001TT6	0

### Oxide Adducts Fugitive Sources

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

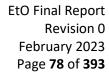
TRITON- DOW/UCC - South <u>Charleston WV</u> - ALL Sources (Point and Fugitive) TRITON- South <u>Charleston WV</u> - Point Sources

Operating?		Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb)
Х		E10813	0.09
Х		L001	0.003962
Х		L002	0.003962
Х		L003	0.003962
Х		L004	0.003962
Х	9 3	T8313	0.002211
Х	8 8	T8314	0.002211
X	12 11	T8320	0.002211
Х	12 15	T8322	0.002211
Х		T8323	0.002211
Х	15 - 10 %	T8331	0.002211
Х	100	T8334	0.002211
Х		T8343	0.002211
Х		T8344	0.002211
Х		T8360	0.002211
X		T8361	0.002211
Х		T8363	0.002211
Х		T8364	0.002211
X	A	T8373	0.002211
Х	9 3	T8380	0.002211
X	9 3	T8381	0.002211
X	10 00	T8383	0.002211





Point Source Chemical Mixing	Emissions for Monitoring Period (lb) 0.013115
Point Source	emissions for Monitoring Period
Dates Carres	Emissions for Monitoring Desired
outh Charleston	
**************	************************
Fugitives Near Covestro	0.008525
Reactor Fugitives TRF	0.018224
Header Fugitives THF	0.006995
	Reactor Fugitives TRF Fugitives Near Covestro





First Sampling Period: January 25-26, 2022

Covestro LLC South Charleston

> Covestro South Charleston, WV Plant ID 0390102

Monitoring Period Start (Date/Time)		3	January 25th 12:30pm	
Monitoring Period End (Date/Time)			January 26th 12:30pm	
Operating w/EO?		Point Source	Emissions for Monitoring Period	Total:
Yes	No		(lb/hr)	_,,
	X	1RX	0	
	х	2RX	0	70
	х	3RX	0	98
2 of 3		789RX	0.0045	0.1
		Fugitive Source		
Yes	32 0	EO03 Fugitives - CEO03F	0.0041	0.09
Yes		PhaselV Fugitives - CPIVF	0.007	0.1
Fugitives based on 5 year av	erage, 2016	- 2020	Facility Total	0.36



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 No	Point Source	Emissions for DEP Monitoring Period (lb)
х	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

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Institute

Specialty Products <u>US\_IIC</u> (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

Operation	ng?	Point Source	Emissions for Monitoring Period
Yes	No		(lb/hr)
x		221A	0.0360
x		230M	0.0202
x	96	230L	0.0888
x		230K	0.0211
x		2300	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)
х	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?		Point Source	Emissions for Monitoring Period
Yes	No		(lb)
X	8 6	E704	0
	X	E705	0
	X	E706	0
Χ	3 8	E707	0.65
Х		E708	0.75
Х		T9120	0.0003229
х		T9121	0.0003229
х	3.6	T9128	0.0003229
Х	8 2	T9129	0.0003229
	x	T9151	0
Х	10000	T9180	0.0003229
Х	- 20	T9181	0.0003229
Х		T9182	0.0003229
Х	30	T9186	0.0003229
Х	3 8	T9187	0.0003229
Х	52.5	T9223	0.0003229
Х	3 6	T9228	0.0003229
Х	332	T9502	0.0003229
Х		T9504	0.0003229
X	3.5	T9505	0.0003229
Х	200	T9507	0.0003229
X	30	T9509	0.0003229
Х	8 8	T9510	0.0003229
Х	3.5	T9511	0.0003229
Х		T9512	0.0003229
Х	3.5	T9553	0.0003229
Х	4 5	T9554	0.0003229
Х	545	T9555	0.0003229
Х	36	T9556	0.0003229
Х		T9562	0.0003229
Х	335	T9563	0.0003229



X		T9565	0.0003229
Х		T9568	0.0003229
х		T9569	0.0003229
X	50 - 10 t	T9612	0.0003229
X	50 10	T9614	0.0003229
Х	S	T9615	0.0003229
100 11	x	T9616	0
Х	8 3	T9617	0.0003229
х		T9619	0.0003229
x	55 - 10 t	T9622	0.0003229
Х	\$ 2	T9624	0.0003229
Х	50 0	T9625	0.0003229
x		T9627	0.0003229
х	6 6	T9629	0.0003229
х		T9632	0.0003229
X	50 - 0	T9634	0.0003229
Х		T9635	0.0003229
X	20 30	T9637	0.0003229
х		T9640	0.0003229
	x	T9643	0
Х		T9645	0.0003229
Х	50 - 0	T9646	0.0003229
Х		T9649	0.0003229
Х		T9734	0.0003229
Х		T9736	0.0003229
Х		T9738	0.0003229
х		T9749	0.0003229
Χ	8 8	T9798	0.0003229
Х		T9812	0.0003229
Х		T9814	0.0003229
Х		T9815	0.0003229
x		T9822	0.0003229
Х	(N - 1)	T9824	0.0003229
X	8 1	T9825	0.0003229
	900 BM		
х		L001TT1	0.0003229
х		L001TT2	0.0003229
	X	L001TT3	0
	X	L001TT4	0
	х	L001TT5	0
	X	L001TT6	0

Oxide Adducts Fugitive Sources



	102
х	- 3
X	
x	Ĩ
х	1
x	
х	

EO Header and Reactor 2 Reactors 4 and 5 Reactor 6 Reactor 7 Western Tip of Island Lower Island Bridge

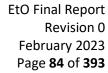
0.07656	
0.12169	
0.02462	i
0.01079	
0.04514	
0.02699	,
	0.12169 0.02462 0.01079 0.04514

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TRITON- DOW/UCC - South Charleston\_WV - ALL Sources (Point and Fugitive)

TRITON- South Charleston WV - Point Sources

Operating?	?	Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb)
X		E10813	0.16
х		L001	0.003962
х		L002	0.003962
х		L003	0.003962
x		L004	0.003962
х		T8313	0.002211
x	20	T8314	0.002211
x		T8320	0.002211
x		T8322	0.002211
х		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
х		T8363	0.002211
x		T8364	0.002211
х		T8373	0.002211
	x	T8380	0
x		T8381	0.002211
х		T8383	0.002211
x	3	T8390	0.002211
NIA.	x	T8391	0
х		T8392	0.002211
	х	T8393	0
х		T8420	0.002211





TRITON		Fugitive Sources	
x		Header Fugitives THF	0.006995
x		Reactor Fugitives TRF	0.018224
х		Fugitives Near Covestro	0.008525
******** *	**	5 7: M	********************************
Chemical N	Aixing - So	outh Charleston	
Operating?		Point Source	Emissions for Monitoring Period
Yes	No	951L	(lb)
х		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 Yes	w/EO? No	Point Source	Emissions for Monitoring Period (lb/hr)	Total/Day
	Х	1RX		46
	Х	2RX	L.	
	x	3RX		4
Х		789RX	0.007	0.17
		Fugitive Source		
Yes	3.5	EO03 Fugitives - CEO03F	0.0041	0.099
Yes	01	PhaselV Fugitives - CPIVF	0.007	0.16
Fugitives b	pased on 5 y	ear 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.	- 0
Monitoring Period End (Date/Time)	2/16/22; 11:00 a.m.	

Operating? Yes No	Point Source	Emissions for Monitoring Period (lb)
х	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 <u>US\_IIC</u> (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?		Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb/hr)
х		221A	0.0360
х		230M	0.0210
x		230L	0.0987
х		230K	0.0195
х		2300	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)
х	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?		Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb)
Χ	28 3	E704	0
Χ	85 5	E705	1.22
X		E706	0
	X	E707	0
Χ		E708	0.64
X		T9120	0.0003229
Х	- S	T9121	0.0003229
Х		T9128	0.0003229
	X	T9129	0
	X	T9151	0
Х	200	T9180	0.0003229
Х	85 59	T9181	0.0003229
Х	50 96	T9182	0.0003229
Х		T9186	0.0003229
Х	50 00	T9187	0.0003229
Х	50 X	T9223	0.0003229
Х	20 20	T9228	0.0003229
Х	85 55	T9502	0.0003229
Х	20 98	T9504	0.0003229
Х		T9505	0.0003229
Х	50 10	T9507	0.0003229
Х	100 100	T9509	0.0003229
Х		T9510	0.0003229
Х	85 86	T9511	0.0003229
Х		T9512	0.0003229
Х	55 - 83	T9553	0.0003229
X	30 105	T9554	0.0003229
Х	55 50	T9555	0.0003229
Х	28 22	T9556	0.0003229
Х	22 - 98	T9562	0.0003229
Х		T9563	0.0003229



x	T9565	0.0003229
x	T9568	0.0003229
х	T9569	0.0003229
х	T9612	0.0003229
Х	T9614	0.0003229
х	T9615	0.0003229
)	T9616	0
Х	T9617	0.0003229
х	T9619	0.0003229
х	T9622	0.0003229
x	T9624	0.0003229
Х	T9625	0.0003229
X	T9627	0.0003229
X	T9629	0.0003229
X	T9632	0.0003229
х	T9634	0.0003229
>	T9635	0
Х	T9637	0.0003229
x	T9640	0.0003229
Х	T9643	0.0003229
Х	T9645	0.0003229
х	T9646	0.0003229
Х	T9649	0.0003229
X	T9734	0.0003229
x	T9736	0.0003229
х	T9738	0.0003229
х	T9749	0.0003229
x	T9798	0.0003229
х	T9812	0.0003229
x	T9814	0.0003229
x	T9815	0.0003229
х	T9822	0.0003229
х	T9824	0.0003229
Х	T9825	0.0003229
v	1004774	0.0002220
X	L001TT1	0.0003229
X	L001TT2	0.0003229
X	L001TT3	0.0003229
X	L001TT4	0.0003229
X	L001TT5	0.0003229
)	L001TT6	0

Oxide Adducts Fugitive Sources



	x	
	x	50
	х	
	х	85
	х	
1	х	**

EO Header and Reactor 2 Reactors 4 and 5 Reactor 6 Reactor 7 Western Tip of Island Lower Island Bridge

	0.07656	
	0.12169	
	0.02462	
ę	0.01079	
	0.04514	
0	0.02699	0

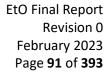
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TRITON- DOW/UCC - South  $\underline{\text{Charleston. WV}}$  - ALL Sources (Point and Fugitive)

TRITON- South Charleston WV - Point Sources

Operating?		Point Source	Emissions for Monitoring Period
Yes	No		(lb)
Х		E10813	0.12
x	55 68	L001	0.003962
x	90 10	L002	0.003962
х	88 99	L003	0.003962
x	8 8	L004	0.003962
х	50 - 96	T8313	0.002211
х		T8314	0.002211
x	S 3	T8320	0.002211
	x	T8322	0
х	35 00	T8323	0.002211
	x	T8331	0
х	50 - 98	T8334	0.002211
х		T8343	0.002211
х	S2 125	T8344	0.002211
х	S	T8360	0.002211
х	20 20	T8361	0.002211
x	85 59	T8363	0.002211
	x	T8364	0
х	S) 82	T8373	0.002211
x	50 10	T8380	0.002211
х	80 00	T8381	0.002211
х	28 2	T8383	0.002211
	x	T8390	0
	x	T8391	0
5	x	T8392	0
x	82 25	T8393	0.002211
х	93 30	T8420	0.002211





TRITON

x	Header Fugitives THF	0.006995
c	Reactor Fugitives TRF	0.018224
v	Fugitives Near Covestro	0.008525
^	Tugitives Near Covestio	0.000323
*******	***************************************	

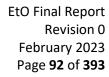
**Fugitive Sources** 

 Operating?
 Point Source
 Emissions for Monitoring Period

 Yes
 No
 (lb)

 x
 Chemical Mixing
 0.013115

 Facility Total
 2.403564362



0.379



Third Sampling Period: March 23-24, 2022

Fugitives based on 5 year average. 2016 - 2020

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?		Point Source	Emissions for Monitoring Period	
Yes	No		(lb/hr)	Total/Day
X		1RX	0.000416	0.01
	х	2RX	(i)	60
	Х	3RX	Si .	60
X		789RX	0.00458	0.11
2		Fugitive Source	2	
Yes		EO03 Fugitives - CEO03F	0.0041	0.099
Yes		PhaselV Fugitives - CPIVF	0.007	0.16

Facility Total



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.	- 2
DEP Monitoring Period End (Date/Time)	3/24/2022 10:30 a.m.	- 6

Operating? Yes No	Point Source	Emissions for DEP Monitoring Period (lb)
х	EODISTFL	0.987750
	Fugitive Source	
х	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 <u>US\_LLC</u> (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?		Point Source	Emissions for Monitoring Period	
Yes	No		(lb/hr)	
х	35	221A	0.0360	
х		230M	0.0218	
х		230L	0.1023	
х		230K	0.0212	
х	10	2300	0.0219	
	x	230HH	0.0000	

### Polyox - Institute Fugitive Sources

Facility Total

х	POLYVOL1	0.0055	(0 - 30 feet release height)
х	BL8389A	0.0005	(30 - 60 feet release height)
х	BL8389B	0.0017	(60 - 90 feet release height)
	Grand total lb/hr	0.2109	

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	?	Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb)
x		E704	0
K.		E705	0
<		E706	0
		E707	0
C		E708	0
ĸ		T9120	0.0003229
c		T9121	0.0003229
	x	T9128	0
	x	T9129	0
	x	T9151	0
	x	T9180	0
	x	T9181	0
	x	T9182	0
(	1	T9186	0.0003229
C		T9187	0.0003229
	x	T9223	0
	x	T9228	0
c		T9502	0.0003229
02	x	T9504	0
	x	T9505	0
	х	T9507	0
C		T9509	0.0003229
c		T9510	0.0003229
c		T9511	0.0003229
(		T9512	0.0003229
Č		T9553	0.0003229
		T9554	0.0003229
C <sub>i</sub>		T9555	0.0003229
		T9556	0.0003229
		T9562	0.0003229
ĸ		T9563	0.0003229



x		T9565	0.0003229
х	50 08	T9568	0.0003229
х		T9569	0.0003229
100	x	T9612	0
х		T9614	0.0003229
х		T9615	0.0003229
x	(A) (B)	T9616	0.0003229
х	92 93	T9617	0.0003229
х		T9619	0.0003229
x		T9622	0.0003229
х		T9624	0.0003229
	x	T9625	0.0003229
x		T9627	0.0003229
x	S	T9629	0.0003229
	x	T9632	0
	x	T9634	0
	x	T9635	0
	×	T9637	0
x	1	T9640	0.0003229
x	+ +	T9643	0.0003229
x	100	T9645	0.0003229
x		T9646	0.0003229
x		T9649	0.0003229
x		T9734	0.0003229
	92 - 28	T9736	0.0003229
x	49 9	T9738	0.0003229
x		T9749	0.0003229
100	<del>-                                      </del>	T9798	0.0003229
х	x	T9812	0.0003229
	*	T9814	australia anno
ž.		T9815	0.0003229
	X	T9822	0 0.0003229
X			
x	<del>                                      </del>	T9824	0.0003229
х		T9825	0.0003229
x	- 00 0 C	L001TT1	0.0003229
x	30 20	L001TT2	0.0003229
х	20 90	L001TT3	0.0003229
х		L001TT4	0.0003229
х	50 96	L001TT5	0.0003229
х		L001TT6	0.0003229

Oxide Adducts Fugitive Sources



	4 1
X	
х	
х	18 8
х	12 0
х	
x	1000

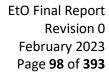
EO Header and Reactor 2 Reactors 4 and 5 Reactor 6 Reactor 7 Western Tip of Island Lower Island Bridge

0.07656	
0.12169	
0.02462	
0.01079	
0.04514	
0.02699	

\* \*\*

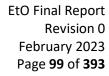
TRITON- DOW/UCC - South <u>Charleston WV</u> - ALL Sources (Point and Fugitive)
TRITON- South <u>Charleston WV</u> - Point Sources

Operating	?	Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb)
x	- 102	E10813	0.33
х	36 98	L001	0.003962
x	48 86	L002	0.003962
х	1 8	L003	0.003962
x	38 6	L004	0.003962
X		T8313	0.002211
x	-3.5 (3)	T8314	0.002211
	x	T8320	0
	x	T8322	0
х	72 89	T8323	0.002211
x	18 60	T8331	0.002211
x		T8334	0.002211
x	- 12 (2)	T8343	0.002211
x	32	T8344	0.002211
x	48 86	T8360	0.002211
x	18 18	T8361	0.002211
х	18 (6	T8363	0.002211
x		T8364	0.002211
х	16 8	T8373	0.002211
	x	T8380	0
x	40 00	T8381	0.002211
x	16 15	T8383	0.002211
x	12 0	T8390	0.002211
x		T8391	0.002211
х	36 88	T8392	0.002211
x	25 86	T8393	0.002211
х	0.00	T8420	0.002211





110	Chemical Mixing	0.013115
No		(lb)
	Point Source	Emissions for Monitoring Period
xing - So	outh Charleston	
**		
*****	****************	***************************************
	Fugitives Near Covestro	0.008525
	Reactor Fugitives TRF	0.018224
	Header Fugitives THF	0.006995
		Reactor Fugitives TRF Fugitives Near Covestro  ***********************************





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?		Point Source	Emissions for Monitoring Period	
Yes	No		(lb/hr)	Total/Day
	Х	1RX	VG (8)	3
	Х	2RX		-)*:
	Х	3RX		3):
X	31 92	789RX	0.0046	0.11
4	35 25	Fugitive Source		-0.0
х		EO03 Fugitives - CEO03F	0.0041	0.099
x	e (c	Phasely Fugitives - CPIVF	0.007	0.16
Fugitives based on 5 year ave	erage. 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? Point Source Yes No		Emissions for DEP Monitoring Period (lb)
х	EODISTFL	0.932370
	Fugitive Source	
х	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 <u>US\_IIC</u> (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

Opera	iting?	Point Source	<b>Emissions for Monitoring Period</b>
Yes	No		(lb/hr)
	х	221A	0.0000
	x	230M	0.0000
	x	230L	0.0000
	x	230K	0.0000
	х	2300	0.0000
9-3	x	230HH	0.0000

### Polyox - Institute Fugitive Sources

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

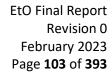
Grand total lb/hr 0.0039 Facility Total 0.0929



# **Appendix B Chain of Custodies**

First Sampling Period: January 25-26, 2022

	Site Code: Guthere WV Dackground Site Co	inister Number: 33531
	City/State:	b Initial Can. Press. ("Hg): 29.8"
	AGS Code: Cl	eaning Batch #: <u>H2-1278</u>
ling		ate Can. Cleaned: 12129121
amp	Options:	
Lab Pre-Sampling	CALCAST CONTRACTOR CON	plicate Event (Y/N):
P		uplicate Can # :
	METHANE (Y/N):	
	Relinquished by:	1-6-22
	Received by: Julia R. Jewell Date:	
Field		A STATE OF THE PARTY OF THE PAR
	Operator: Josephin JAN 58 501249 Fee Ele	
	Setup Date: 1-25-22 /1:46 EST Ca	nister Valve Opened (Y/N): Yes
	Field Initial Can. Press.: 29 psig psia	<u> </u>
-	Recovery Date: 1-26-12, 1/46 €37 Sa	mple Duration (3 or 24 hr): 24 hr
Recovery	Operator: Land Press.: 1. 5 psig psig (	apsed Time: 1440 nin
ecove		
œ.	Status: VALID VOID (Circle one) Ca	nister Valve Closed (Y/N):
	Relinquished by: Date: 1	27 8006
5	Received by: MW Date: 1	128/22
Recovery	Lab Final Can. Press. 2,50 psig (Hg) (Circ	cle one) Converted to psia:
Rec	Status: VALID VOID (Circle one)	Gauge: 1 2 (3) (Circle one)
	If void, why:	
-	San	pples stored in Air Tox Lab (Room 130)
ment	15: 1-25-22 Treak test intial reading 29	in Hg & 11:40 29 in Hg &
70	- O. S. C. Guthria backgrounds	ite
	2 5 temp at pick up to -2.5 °C &	XTECH A21033000 us
	ap at set up t pick up	





	AIR TOXICS SAMPLE CHA	IN OF COSTODI
	Site Code: # 0 South charleston, WV	Canister Number: 19648
	City/State:	Lab Initial Can. Press. ("Hg): 29.8"
-	AQS Code:	Cleaning Batch #: H1-1271
Lab Pre-Sampling	Collection Date:	Date Can. Cleaned: 12/28/21
Lab	Options:	
Pre-	SNMOC (Y/N):	Duplicate Event (Y/N):
	TOXICS (Y/N):	Duplicate Can # :
	METHANE (Y/N):  Relinquished by:  Date of the control of the contr	
	Relinquished by: Dal	te: 1-6-22
	" Received by Tale? R. Jank Da	le: F10-1)
	Operator: Tyler Fewell	MFC Setting: N/A
Field	System #: # - 01-14-14 PK - 75	Elapsed Timer Reset (Y/N): N/A
11 00	Setup Date: 1-25-2022 at 12/5	Canister Valve Opened (Y/N):
	Field Initial Can. Press.: 30 psig	psia (Hg) (Circle one)
	Recovery Date: 1-26-2022 at 12 15	Sample Duration (3 or 24 hr): 24
7	Recovery Date: 1-26-2022 at 1215 Operator: Tiler Fewell	Elapsed Time: 24:00
eld	Operator: Ner FeWe\\ Field Final Can Press.: psig	psia Ro (Circle one)
Field	Status: (VALID) VOID (Circle one)	Canister Valve Closed (Y/N):
	Relinquished by: Juffer R. Ferrill Dat	e: 1-27-2022
ery	Received by: MW Dat Lab Final Can. Press.: 0,25 psig "Hg	
Lab	4	
2	Status: VALID VOID (Circle one)	Gauge: 1 2 (3) (Circle one
	If void, why:	Samples stored in Air Tox Lab (Room 130)
	The state of the s	
mment	s: DHHR #O, Regulator	# SN- 15594
erk	Check passed.	



-	AIR TOXICS SAMPLE CHAIN OF CUSTODY
	Site Code: #3 North Charleston, WV Canister Number: 18875
	City/State: Lab Initial Can. Press. ("Hg): 29.7"
9	AQS Code: Cleaning Batch #: \(\frac{1278}{2130131}\)
ulldu Indi	Collection Date: Date Can. Cleaned:
Lab Pre-Sampling	Options:
Pre	SNMOC (Y/N): Duplicate Event (Y/N):
	TOXICS (Y/N): Duplicate Can #:
	METHANE (Y/N):
	Resinquished by: VC Date: 1 6 CC
	Received by: Jyloz R. Fowlil Date: 1-10-1
- 0	Operator: Tyler Fewell MFC Setting: N/A
Field	System #: Elapsed Timer Reset (Y/N): //A
- 0	Setup Date: 1-25-2002
	Field Initial Can. Press: 29.5psig_psia ("Hg) (Circle one)
	Recovery Date: 1-26-2022 at 1300 Sample Duration (3 or 24 hr): 24
7	Operator: Tyler Fewell Elapsed Time: 24:00
Field	Field Final Can. Press.: psig psia (Hg) (Circle one)
Rec	Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):
	Relinquished by: Ight R Fould Date: 1-17-2020
	Received by: MW Date: 1/Z 8/2 2
ery	Lab Final Can. Press.: 0, 0 psig "Hg (Circle one) Converted to psia:
Lab	
S.	Status: VALID VOID (Circle one) Gauge: 1 2 (3) (Circle one)
	If void, why:
	Samples stored in Air Tex Cab (Noom 130)
mment	s: North Marteston #3, Regulator SN-15585
eak	Check Passed
-	ONEL A PROSEED.



	AIR TOXICS SAMPLE		
	site Code: # 4 North Charleston,	WV	Canister Number: 19290
	City/State:		Lab Initial Can. Press. (*Hg): 29,7*
Bu	AQS Code:		Cleaning Batch #: 12 127
Lab Pre-Sampling	Collection Date:		Date Can. Cleaned: 12   28   21
	Options:		
Pre	SNMOC (Y/N):		Duplicate Event (Y/N):
	TOXICS (Y/N):		Duplicate Can # :
	METHANE (Y/N):  Relinquished by:	Date	: 1-6-22
Field	Meceived by: Igle 7 R. Feall	Date	: 1-10-2
	Operator Tyler Fewell	-	MFC Setting:
	System #: #4756-20 PR-76	5.71	Elapsed Timer Reset (Y/N):
	Setup Date: 1-25-2022 at 1244	_	Canister Valve Opened (Y/N):
	Field Initial Can. Press.: 29, 2	psig ps	sia "Hg (Circle one)
	Recovery Date: 1-26-2022 at 1246	18.74	
1	Operator: Tyler Fewell		Elapsed Time: 24.00
Recovery		_psig ps	sia Hg (Circle one)
Re	Status: (VALID) VOID (Circle or		
	Relinquished by: Feff 2 K - Family	Date	1-27-2022
	Received by: MW	Date	1/28/22
Recovery	4	-	(Circle one) Converted to psia:
i co		200	Gauge: 1 2 (3) (Circle one)
-	If void, why:		
		1	Samples stored in Air Tox Lab (Room 130)
	4. 3. 4	0	. 1
mment	s: North Charleston #4,	Keg	Water S/N-15584
eak	Check passed		



# 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

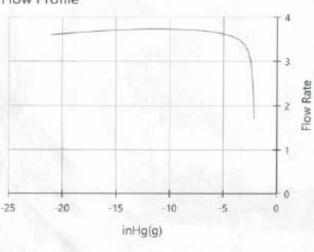
# Calibration Summary

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				





## Notes:

None



1	AIR TOXICS SAMPLE O	
Lab Pre-Sampling	Site Code: # 10 Institute, WV	Canister Number: 40457
	City/State:	Lab Initial Can. Press. ("Hg): 29.71"
	AQS Code:	Cleaning Batch #: H2-1278
	Collection Date:	Date Can. Cleaned: 12129121
	Options:	5 5 0/8/
Pre	SNMOC (Y/N):	Duplicate Event (Y/N):
	TOXICS (Y/N):	Duplicate Can #:
	METHANE (Y/N):  Relinquished by:	Date: 1-6-22
Field	Received by: Igliot R. Ferrell	
	Operator: Tyler Fews 1)	MFC Setting: N/A
	11/1	5589 Elapsed Timer Reset (Y/N): NA
	Setup Date: 135 2022 at 1115	
	Field Initial Can. Process	psig psia "Hg (Circle one)
	Recovery Date: 1-26-2022 at 115	Sample Duration (3 or 24 hr):
Field	Operator: Tyler Fewell	Elapsed Time: 24'.00
	Field Final Can Press.:	psig psia Hg (Circle one)
	Status: VALID VOID (Circle one	) Canister Valve Closed (Y/N):
	Relinquished by: Fyn R. Fewla	Date: 1-26-2020
	Received by: MW	Date: 1/28/23
Lab		"Hg (Circle one) Converted to psia:
		) Gauge: 1 2 (3) (Circle one)
	If void, why:	,
	1 100, mj.	Samples stored in Air Tox Lab (Room 130)
ment	s: Institute #10 Regular	tor 5/N-15589
eak		
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	



Lab Pre-Sampling	Site Code: #13 Institute, W	Canister Number: 19656
	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: C - Z Z
Field	Received by: Tylor R. Fewill	Date: 1-10-1.1
	Operator: Tyley Fewell	MFC Setting: N/A
	System#: # 13522 PR-87	Elapsed Timer Reset (Y/N):
		Canister Valve Opened (Y/N): Yes
	Field Initial Can. Press.: 29	psig psia (Hg) (Circle one)
Field	Recovery Date: 1-26-2022 at 105	5 Sample Duration (3 or 24 hr): 24
	Operator: Tyler Fewell	Elapsed Time: 24.00
		psig psia "Hg (Circle one)
		Canister Valve Closed (Y/N):
	Relinquished by: Jepill Faull	Date: 1-27-2000
	Received by: MW	Date: 1/28/22
Very	Lab Final Can. Press.: 0.5 psi	
Recovery		) Gauge: 1 2 (3) (Circle one)
	If void, why:	
		Samples stored in Air Tox Lab (Room 130)
	11 .3	
nment	s: # 13 Regulator SIN	- 15586, Leak Check passed



10000	No. of the last of	1004
Lab Pre-Sampling	Site Code: #14 Tn5+1-tute, WV City/State:  AQS Code: Collection Date: Options: SNMOC (Y/N): TOXICS (Y/N): METHANE (Y/N):	Canister Number: 4045   Lab Initial Can. Press. ("Hg): 39.8" Cleaning Batch #: H2-1778 Date Can. Cleaned: 2139(3)  Duplicate Event (Y/N): Duplicate Can #:
	Relinquished by:	Date: 1-6-22
Setup	Operator: Tyler Fewerl System #: Tyler Fewerl Setup Date: 1-25-2022 at 1034- Field Initial Can. Press.: 30.	MFC Setting: NA  Elapsed Timer Reset (Y/N): NA  Canister Valve Opened (Y/N):
Recovery	Operator: Iyler Fell Thank	
Recovery	Lab Final Can. Press.: 0, 5 (psi	Gauge: 1 2 3 (Circle one)
		Samples stored in Air Tox Lab (Room 130)
nment	s: Institute # 14, Regula	tor BIN - 15597
eat	Check possed,	

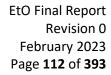


	Site Code: #15 Institute, WV	Canister Number: 39938
	City/State:	Lab Initial Can. Press. ("Hg): 29.7"
Lab Pre-Sampling	AQS Code:	Cleaning Batch #: 142-1277
	Collection Date:	Date Can. Cleaned: 121 28121
	Options:	
re-S	SNMOC (Y/N):	Duplicate Event (Y/N):
0	TOXICS (Y/N):	Duplicate Can # :
	METHANE (Y/N):	
	Relinquished by:	Date: 1 - 6 - Z Z
Field	Received by Fele? R. Forde	Date: 1-10-22
	T	MFC Setting: N/A
	System #: # 1575 PR-91 SW	5990 Elepsed Timer Reset (Y/N): N/A
	Setup Date: 1-25-2022 at 1140	Canister Valve Opened (Y/N):
	Field Initial Can. Press.: 29.5 p	sig psia (Hg) (Circle one)
	Recovery Date: 1-26-2022 4+ 1140	Sample Duration (3 or 24 hr): 24
Ž		Elapsed Time: 24100
Recovery	Field Final Can Press.: pi	sig psia "Hg (Circle one)
Rei		Canister Valve Closed (Y/N):
	Relinquished by: Joffe? R. Forth	Date: 1-27-2002
Lab	Received by:	Date: 1/28/22
	Lab Final Can. Press.: 0,85 psig	
	Status: VALID VOID (Circle one)	Gauge: 1 2 (3) (Circle one)
	If void, why:	
		Samples stored in Air Tox Lab (Room 130)
	T H 15 0	1-1 6-0 1-50
	Institute # 15 Reg	Water S/N-15590
DL II	Check Rassed.	



Second Sampling Period: February 15-16, 2022

30° 30° 396 7122
396 7122
57
<u>Y</u>
۲,
<i>Y</i>
ircle one)
ircle one)

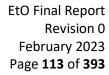




White: Sample Traveler

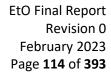
+ 4	site: #15 Institute, W	Canister Number: 4\558
-	City/State:	Lab Initial Can, Press. ("Hg): 30 1
rie-Sampiing	Options:	Cleaning Batch #: H1 -1295
8	SNMOC (Y/N):	Date Can. Cleaned: 1/20122
2	TOXICS (Y/N):	Duplicate Event (Y/N):
4	METHANE (Y/N):	Duplicate Can # :
	Relinquished by: Date:	1/31/22
	Received by: Talk 2 2. Feirle Date:	2-1-3022
	Operator: Tyler Fewell	Start Date: 2-15-2022
	Probe ID #: PR - 87	Start Time:
Setup	Timer Used (Y/N):	Timer ID#: N/A _15 72
		Leak Check Rate: A/A
y -11		(if applicable)
	Field Initial Can. Press.: 29.5"Hg	Canister Valve Opened (Y/N):
Recovery	Recovery Date: 2-16-2022	End Date: 2-16-2022
	Operator: Tyler Felix 1)	End Time:
	Fleld Final Can, Press THg	
		Canister Valve Closed (Y/N):
	Relinquished by: Jeffol R. Fellel Date:	7-15-7079
0.0	Received by: (7) Date:	02118/2022
Recovery	Lab Final Can. Press.:	
		Gauge: 1 2 (Circle one)
	If void, why:	
		Samples stored in Air Tox Lab (Room 130
nts	:Leak Check at 1206=30inHg, a ther-9.2°C, 757.3 mmHg, Sa	+ 1211 = 30 in Hg
Ð	ther- 9.2°C, 757.3 mm Hg, Sa	nny (Streamline pro 5190
he	c at pickup - 16.8°C, 753.3mmth,	Sunny Windy

Canary: Lab Copy



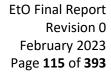


site: # 13 Institute, WV	Canister Number: 41632
City/State:	Lab Initial Can. Press. ("Hg): 30 "
Options:	Cleaning Batch #: H Z -1296
SNMOC (Y/N):	Date Can. Cleaned: 127122
TOXICS (Y/N):	Duplicate Event (Y/N):
METHANE (Y/N):	Duplicate Can # :
Relinquished by:	Date: 1/31/22
Received by: Tyle 7 & Foulk	Date: 2-1-1022
Operator: Tyler Fewell	Start Date: 2-15-2011
Probe ID#: PR - 85	Start Time:    4
Timer Used (Y/N):	Timer ID #: N/A
	E) Leak Check Rate: AAA 2-15-
Field Initial Can. Press.: 30	"Hg Canister Valve Opened (Y/N):
Recovery Date: 2-16-2022	End Date: 2-16-2022
Operator: Igler Fewell	End Time:
Field Final Can. Press.:	"Hg
	Canister Valve Closed (Y/N):
Relinquished by: Ifer R. Fearla	Date: 2-12-2082
Received by: GK	Date: 02/18/2022
Lab Final Can. Press.: 0,   CHg	in,
	) Gauge: 1 2 (Circle one)
If void, why:	
	Samples stored in Air Tox Lab (Room 13
) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
: Leak Check at 1108= 30	in Hg, Leak at 1113 = 30 in Ha iny at Setup (Streamline pro : ranny, windy at take down,
Cr - 7.5 - 150, 2mrtg 54h	my at bethe 12 Treamlike pro.



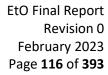


	site: #14 Institute, WV	Canister Number: 4   5 5
	City/State:	Lab Initial Can. Press. ("Hg): 30"
	Options:	Cleaning Batch#: 42-1296
	SNMOC (Y/N):	Date Can. Cleaned: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	TOXICS (Y/N):	Duplicate Event (Y/N):
	METHANE (Y/N):	Duplicate Can # :
	Relinquished by: Mb Date:	1/3/22
1	Received by: Jakor R. Fand Date:	2-1-2022
	Operator: Tyler Fewell	Start Date: 2-/5-2022
	Probe ID#: PR - 75	Start Time: 1031
	Timer Used (Y/N);	Timer ID#: TFAHA N/A
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: (if applicable)
	Field Initial Can. Press.: 30 "Hg	Canister Valve Opened (Y/N):
	Recovery Date: 2-15-3032	End Date: 2-16-2022
	Operator: Tyler Fewell	End Time: 1031
	Field Final Can_Press.:	
	Status: VALID VOID (Circle one)	Canister Valve Closed (Y/N):
1	Relinquished by: Jake: Date:	2-12 302)
î	Received by:/\(\infty\) Date:	2/18/12
1	Lab Final Can_Press.: C. 5 "Ag)	
		Gauge: 1 2 (3) (Circle one)
-	If void, why:	2 (3),(2,12,2,13,5,13,5,13,5,13,5,13,5,13,5,13,
		Samples stored in Air Tox Lab (Room 130)
s	leak Check at 1025 = 30"Hg. C, 757.9 mm Hg, Sunny at er at pick up - 13.1°C, 753.7	Leat check at 1030 = 30
_	C, 757.9 mm Hg, Sunny at	Setap. Streamline pro
١.	er at pick up - 13.1°C. 752.7,	mmHa Swany





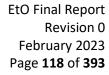
E	RG Lab ID # 2021802-05
(eystone i	PASSIVE SAMPLE CHAIN OF CUSTODY
	site: #3 North Charleston Canister Number: 18831
Б	City/State: Lab Initial Can. Press. ("Hg): 30
를	Options: Cleaning Batch #: \\\ - \\ 29\\
Pre-Sampling	SNMOC (Y/N): Date Can. Cleaned:\/ 25/27
ė	TOXICS (Y/N): Duplicate Event (Y/N):
177	METHANE (Y/N):   Duplicate Can # :
	Relinquished by: Rub Date: L[3]2 Z
	Received by: Fell 28. Fell Date: 2-1-2012
	Operator: Tyler Fewell Start Date: 2-15-2022
	Probe ID#: PR - 79 Start Time: 1303
Setup	Timer Used (Y/N): N Timer ID#: N/A p-15-2
டக	Leak Check: PASS FAIL (Circle One) Leak Check Rate: (if applicable)
	Field Initial Can. Press.: 30 "Hg Canister Valve Opened (Y/N):
2	Recovery Date: 2-16-2022 End Date: 2-16-2022
	Operator: Tyler Feliel) End Time: 1303
Recovery	Field Final Can. Press.: "Hg
Field	Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):
	Relinquished by: July R. Fench Date: 2-17-2022
``~	Received by: (1 C Date: 0°2 / 18/2022
Lab Recovery	Lab Final Can. Press.: O; ] "Hg
	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
36	If void, why:
773	Samples stored in Air Tox Lab (Room 130)
	10-1 + DEZ = 200 H
iments	ther- 1449 7660 40 6
o coc	ELEAK at 1257 = 30 in Hg, Leak at \$\frac{1}{2} 1302 = 29.0 in Hg  ther - 14.4°C, 756.8 mmHg, Gurmy, Streamline pro \$1904.  or at Pick up - 18.6°C, 752.4 mmHg, Sunny, Windy
JON T	TICKET TOOK JAITMING SANNY, WINDY







<b>DE</b>	ERG Lab ID# 2021802-06
601 Keystone	Park Drive, Suite 700, Morrisville, NC 27560 PASSIVE SAMPLE CHAIN OF CUSTODY
	site: #4 North Charleston conster Number: 41569
Lab e-Sampling	City/State: Lab Initial Can. Press. ("Hg): 30"
	Options: Cleaning Batch #: H2-1796
Lab	SNMOC (Y/N): Date Can. Cleaned:
- %	TOXICS (Y/N): Duplicate Event (Y/N):
٠.	METHANE (Y/N): Duplicate Can # :
	Relinquished by: LUB Date: 1/3/22
100	Received by: Isli R. Famil Date: 2-1-2022
\$ ¥ =	Operator: Tyler Fewell Start Date: 2-15-2022
4 4 4	Probe ID#: PR - 86 Start Time: 1242
Field	Timer Used (Y/N): N Timer ID#:
	Leak Check: PASS FAIL (Circle One) Leak Check Rate:
	(if applicable)
	Field Initial Can. Press.:
	Recovery Date: 2-16-2022 End Date: 2-16-2022
2	Operator: Tyler Feliel) End Time: 1242
Field	Field Final Can_Press.:
Rec	Status: (VALID) VOID (Circle one) Canister Valve Closed (Y/N):
	Relinquished by: Tylor R. Fell Date: 2-17-2022
	Received by: 61K Date: 02 /18/2022
ه ح	Lab Final Can. Press.: C. (G. (Hg)
Lab	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
ď	If void, why:
	Samples stored in Air Tox Lab (Room 130)
	1-202
Comments	: Leak at 1236 = 30 in Hg, Leak at 1241 = 30 in Hg.
WC	ther- 7.9°4 757.3mmHg Sunny (Streamline DO S190402)
Had t	d tighten the connector to get it to fass
the	her at pick up- 19.2° 753, omnty, sanny, wirdy
weat	ther at Dick up- 19.2° 753, ominty, sanny, windy



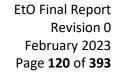


<b>D</b> E	RG	ERG Lab ID# 2021802-07
Keystone	PASSIVE SAMPLE CH	AIN OF CUSTODY
Lab Pre-Sampling	Site: #10 Institute, W City/State: Options: SNMOC (Y/N):	Canister Number: 41665  Lab Initial Can. Press. ("Hg): 30"  Cleaning Batch #: 47-1296  Date Can. Cleaned: 177172
Pæ	TOXICS (Y/N):  METHANE (Y/N):  Relinquished by:  Received by:  TYUE L. FONCE	Duplicate Event (Y/N):  Duplicate Can # :  Date:/3ょ/2~  Date: ユーノースンシス
Setup	Operator: THEY FEWELL  Probe ID#: PR - 91  Timer Used (Y/N): N  Leak Check: PASS FAIL (Circle One)  Field Initial Can. Press.: 30 MHg "	Start Date: 2-15-2020 Start Time: 113-0 Timer ID #: N/A Leak Check Rate: (if applicable)
Recovery		Hg Canister Valve Closed (Y/N):
Recovery	Received by:	
eat	:Leak Check at 1130 = 3. her 5.0°C, 758.2 mmHa er at pickup- 15.5°C, 753.3	ointy, Leak at 1035 = 30inty Sunny (Streamline pro S19040
White: S	ample Traveler Canary: Lab C	Copy Pink: Field Copy



Third Sampling Period: March 23-24, 2022

ØE	ERG Lab ID# 2032918-01
11 Keystone	Park Drive, Suite 700, Morrisville, NC 27560
- 1	PASSIVE SAMPLE CHAIN OF CUSTODY
	Site: #15 Institute, WV Canister Number: 41614
Lab Pre-Sampling	City/State: Lab Initial Can. Press. ("Hg): 29,9
	Options: Cleaning Batch #: 1/2-1327
Lab	SNMOC (Y/N): Date Can. Cleaned: 3/9/27
20.0	TOXICS (Y/N): Duplicate Event (Y/N):
, "	METHANE (Y/N): Duplicate Can # :
	Relinquished by: Ch Date: 31\0122
2 2 2	Received by: July R. Fewill Date: 3-1/-22
	Operator: Tyler Fewell Start Date: 3-23-2022
, i, i ⊕ <u>0</u>	Probe ID#: PR -79 Start Time: 3-33-78-12-13-1113-ES
Field Setup	Timer Used (Y/N): // Timer ID #: ///A-
	Leak Check: PASS FAIL (Circle Cne) Leak Check Rate: (If applicable)
	Field Initial Can. Press.: 29,5:hHg: "Hg Canister Valve Opened (Y/N):
Field	L
	Recovery Date: 2-24-2022 End Date: 3-24-2022
	Operator: Tyler Fewell End Time: End Time:
	Field Final Can. Press.: "Hg Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):
	Relinquished by: Found Date: 3 8 2000
	L
2	Received by: MW Date: 3/29/23
Lab	Lab Final Can. Press.: 3 ( ) (Hg)
_ 8	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
	If void, why:
	Samples stored in Air Tox Lab (Room 130)
	1106 EST MI EST "
omments Local	ver at Setup 214°C. 734736 Haralin Har Clardy winds
veat	
A FROM	the state of the s





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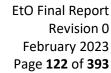
		<del></del>
<b>DE</b>	<b>R</b> G	ERG Lab ID# 2032918-02
301 Keystone	Park Drive, Suite 700, Morrisville, NC 27560  PASSIVE SAMPLE CHA	AIN OF CUSTODY
Lab Pre-Sampling	L	Canister Number: 41619  Lab Initial Can. Press. ("Hg): 29.8  Cleaning Batch #: HI-1325  Date Can. Cleaned: 3/8/2-2  Duplicate Event (Y/N):  Duplicate Can #:  Date: 3/10/22
Field Setup	Received by: Ight R. Fewell Operator: Tylev Fewell Probe ID #: PR - 73 Timer Used (Y/N): N Leak Check: PASS FAIL (Circle Cne) Field Initial Can. Press.: J9 "H	Date: 3 1 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
Field	Recovery Date: 2-24-2022  Operator: Tyler Fewell  Field Final Can. Press.: "H  Status: VALID VOID (Circle one)  Relinquished by: Tyler Fewell	End Date: 3-24-2022 End Time: 0947 EST  Ig  Canister Valve Closed (Y/N):
Lab Recovery	Received by:	Gauge: 1 2 (Circle one)  Samples stored in Air Tox Lab (Room 130)
Commert	: leat Check at 1037 = 29 in)	0942 3-22 27 F to at 4043 = 20 in Ha
weal weal	ther at pick up - 13.1°C,	7.7mm Hg, Wostly Cloudy Mostly Goody, Windy



EtO Final Report Revision 0 February 2023 Page **121** of **393** 

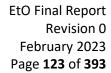
C2

Relinquished by: Total Date: 3-28-200
PASSIVE SAMPLE CHAIN OF CUSTODY  Site: # 13 C instruction with the control of the
City/State:
Operator: Tyler Fewell Start Date: 3-23-22  Probe ID #: Probe ID #: Start Time: Timer ID #: N/A-  Leak Check: PASS FAIL (Circle One) Leak Check Rate: (if applicable)  Field Initial Can. Press.: 29 "Hg Canister Valve Opened (Y/N): Start Time: O950 0947 EST Date: Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y  Recovery Date: 3-24-2022 End Time: O950 0947 EST Date: 3-28-2022  Probe ID #: Start Date: 3-23-22  Timer ID #: N/A-  Leak Check Rate: (if applicable)  End Date: 3-24-2022  End Time: O950 0947 EST Date: 3-28-2022  Canister Valve Closed (Y/N): Y  Relinquished by: Tyler Fewell Date: 3-28-2022
Operator: Tyler Fewell End Time: 0950 6947 EST  Field Final Can. Press.: 8 "Hg  Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y  Relinquished by: Tyler R. Fewell Date: 3-18-2010
Received by:



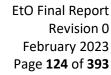


E	ERG Lab ID# 2032718-04	
601 Keystone	PASSIVE SAMPLE CHAIN OF CUSTODY	
Lab Pre-Sampling	Site:         # 3 North Charleston, WV         Canister Number:         33506           City/State:         Lab Initial Can. Press. ("Hg):         29, 9           Options:         Cleaning Batch #:         112-1327           SNMOC (Y/N):         Date Can. Cleaned:         3/9/22           TOXICS (Y/N):         Duplicate Event (Y/N):         Duplicate Can #:           Relinquished by:         Date:         3/10/22	
Field Setup	Received by:   Jeff   R.   Fewel   Date:   3 - 1/ - 12	
Field Recovery	Recovery Date: 3-24-2022  Operator: Tyler Fewell End Time: 1209 EST  Field Final Can. Press.: 15 "Hg  Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): 7  Relinquished by: Tyler Received by: MW Date: 3/27/23	
Lab Recovery	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)  If void, why:  Samples stored in Air Tox Lab (Room 130)	
comments: First regulator failed the leat Check. Replaced with PR-87. Leak at 1302 = 29:nHg leak at 1302 = 29:nHg weather at Set up = 23.4°C, 735:9 mmHg, Clouds, wirely weather at pick up = 18.5°C, Sunny, light wind		



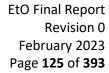


	site: # D South Charleston, nov	OF CUSTODY  Canister Number: 19296
	City/State:	Lab Initial Can. Press. ("Hg): 2-9.9
ling	Options:	Cleaning Batch #: H1~/326
Lab Pre-Sampling	SNMOC (Y/N):	Date Can. Cleaned: 3/4/2.2
္ မွ	TOXICS (Y/N):	Duplicate Event (Y/N):
₫.	METHANE (Y/N):	Duplicate Can #:
		3/10/12
	L	
		: 3-11-22
	Operator: Tyler Fewell	Start Date: 3-23-2022
<u> </u>	Probe ID #: PR-77	Start Time: 3-33-77 /335 /335 E
Setup	Timer Used (Y/N):	Timer ID#: N/A
	Leak Check: PASS FAIL (Circle One)	Leak Check Rate: (if applicable)
	Field Initial Can. Press.: 29 "Hg	Canister Valve Opened (Y/N):
7,51	Recovery Date: 3-24-2022	End Date: 3-24-2022
2	Operator: Tyler Fewell	End Time: 235 EST
Recovery	Field Final Can_Press.: "Hg	
. §		Canister Valve Closed (Y/N):
	Relinquished by: Full Date	: 3-78 4019
		:_3/29/22
Recovery	Lab Final Can. Press.: 7, (7) (Hg)	3.575
SCOVE		Gauge: 1 2 (Circle one)
œ.		Sauge. 1 2 (Ollice Oile)
	If void, why:	Samples stored in Air Tox Lab (Room 130)
	1277 EST	1232 85+
ments	1	+ 13325 29:WHO
ent	her at Set no- 24.8°C, 735	Jum Hg (loudy, windy
120	ther at sick up 20.3°C close	dy light wind



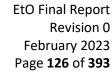


E	ERG Lab ID# 2032918-06			
S01 Keystone Park Drive, Suite 700, Morrisville, NC 27580  PASSIVE SAMPLE CHAIN OF CUSTODY				
	Site: # 4 Morth Charteston W.V Canister Number: 18879			
	City/State: Lab Initial Can. Press. ("Hg): \$\frac{529.9}{}\$			
Lab Pre-Sampling	Options: Cleaning Batch #: H1-1326			
	SNMOC (Y/N): Date Can. Cleaned: 3/8/22			
9-6-	TOXICS (Y/N): Duplicate Event (Y/N):			
	METHANE (Y/N): Duplicate Can # :			
	Relinquished by: CG Date: 31/0/22			
2 - 2	Received by: July 17 R. Fewell Date: 3-11-22			
	Operator: The Fewell Start Date: 3-23-2022			
_ 0	Probe ID #: PR - 85 Start Time: 3-3-2-12/43- 11/3 ES			
Field Setup	Timer Used (Y/N): N Timer ID#: N/A			
ш <sub>8</sub>	Leak Check: PASS FAIL (Circle One) Leak Check Rate:			
	Field Initial Can. Press.: "Hg Canister Valve Opened (Y/N):			
2 2	Recovery Date: 3-24-2023 End Date: 3-24-2023			
2	Operator: Tyler Fewell End Time: 1143 EST			
Field Recovery	Field Final Can. Press.: "Hg			
- 88 - 89	Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):			
	Relinquished by: FYO R-FWE Date: 3-28-2022			
7 7	Received by: MW Date: 3/29/22			
Lab Recovery	Lab Final Can. Press.: 3. 00 (Ha)			
<u> </u>	Status: (VALID VOID (Circle on +) Gauge: 1 2 (Circle one)			
. <u>"</u> "	If void, why:			
	Samples stored in Air Tox Lab (Room 130)			
	1134 EST 1139 EST 1			
mments	: I park theck at 1234= 27 intry Leak at 1259= 28 intry			
Nea	ther at set up 22.4° G 7362mm Hg, Sunny windy			
weather at pick up 17.6°C, Sunny, light wind				



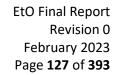


ØE	ERG Lab ID# 2072918-07		
501 Keystone Park Drive, Suite 700, Morrisville, NC 27560  PASSIVE SAMPLE CHAIN OF CUSTODY			
	Site: #10 Institute, WV Canister Number: 19661		
Lab Pre-Sampling	City/State: Lab Initial Can. Press. ("Hg): \$29,8		
	Options: Cleaning Batch #: 141-132.6		
	SNMOC (Y/N): Date Can. Cleaned: 3/8/22_		
2	TOXICS (Y/N): Duplicate Event (Y/N):		
<u> </u>	METHANE (Y/N): Duplicate Can # :		
1 4 5 4	Relinquished by: Cb Date: 3/10/22		
	Received by: Jyle R. Feucl Date: 3-1/22		
	Operator: Tyler Fewell Start Date: 3-23-2022		
7 7 7 8 1 - 1	Probe ID#: PR-9/ Start Time: 3-23-22-1413-(0/3.ES)		
Field	Timer Used (Y/N): NA Timer ID #: N/A		
T O	Leak Check: PASS FAIL (Circle One) Leak Check Rate:		
	(if applicable)		
	Field Initial Can. Press.: 29.2 "Hg Canister Valve Opened (Y/N):		
- 75	Recovery Date: 3-24-2022 End Date: 3-23-2022		
2	Operator: Tyler Felice   End Time: 24 10/3 EST		
Field	Field Final Can. Press.: "Hg		
Rec	Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):		
	Relinquished by: Jefu/2R Fewal Date: 3-18-2022		
	Received by: Date:		
Lab Recovery	Lab Final Can. Press.: 2.50 (Hg)		
Lab	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)		
œ	If void, why:		
	Samples stored in Air Tox Lab (Room 130)		
	1006 EST 21-32 1011 EST-33-22		
mments	Leak Check at 1106 = 29. 27. 20 111 = 29.2 in Hg		
Nea	ther at setup= 18,74 18/12 mosty cloud		
Neath	ner at pick up 12.8 4 partly Cloudy, Windy		





<b>D</b> E	RG ERG Lab ID# 2032918-08		
801 Keystone Park Drive, Suite 700, Morrisville, NC 27560  PASSIVE SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site:         # 14		
	Relinquished by: CG Date: 3/10/27		
Field Setup	Received by:		
Field Recovery	Recovery Date: 3-24-2022 End Date: 3-24-2022  Operator: Tyler Fewell End Time: 1046 EST  Field Final Can. Press.: 3.5 "Hg  Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): 7  Relinquished by: Tylen R. Fewell Date: 3-28-2022		
Lab Recovery	Received by:		
Samples stored in Air Tox Lab (Room 130)  1034 EST 1024			
weather at set up 20.9°C, 737 mmHg, windy, cloudy weather at pick up 15.3°C, sunny, windy			





<b>DE</b>	RG ERG Lab ID# 2032918-09
801 Keystone	Park Drive, Suite 700, Morrisville, NC 27590  PASSIVE SAMPLE CHAIN OF CUSTODY
. 2 + 12	Site: Canister Number: 19300
0	City/State: Lab Initial Can. Press. ("Hg): 29, 9
틟	Options: Cleaning Batch #: H2-1327
Lab	SNMOC (Y/N): Date Can. Cleaned:
Lab Pre-Sampling	TOXICS (Y/N): Duplicate Event (Y/N):
	METHANE (Y/N): Duplicate Can # :
	Relinquished by: C: Date: 3110122
3 3 7	Received by: 1/22 R. Ferld Date: 3-11-12
	Operator: Jun hum Start Date: - 3-24-22
	Probe ID #: 44 57 64-11-69 2 20 15586 Start Time: - 1:55 € 5T
Field Setup	Timer Used (Y/N): \( \A \)  Timer ID #: \( \A \)
1 - 0,	Leak Check: PASS EATL (Circle One) Leak Check Rate: - 1916 in Smin
	Field Initial Can. Press.: 28.5 "Hg Canister Valve Opened (Y/N): 3-34-
	Recovery Date: 3-25-22 End Date: 3-25-22
2	Operator: 0
Field	Field Final Can. Press.: 2 "Hg
Rec .	Status: VALID VOID (Circle one) Canister Valve Closed (Y/N):
1 1 2	Relinquished by: Jule R-Jewell Date: 3-28-2022
>	Received by:
Cover	Lab Final Can. Press.: 2, 50 "Hg)
Lab Recovery	Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
	If void, why:
a 1 a 1	Samples stored in Air Tox Lab (Room 130)

Comments: 3-23-22 Leak check start at 1:07EST, failed > 1 and in 50:1

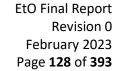
Tight timed all fittings, Leak check start 1:10EST failed > 1 and in 50:1

Not set up to sample on 3-22-22 due to no spore regulator. JT

3-24-22 Set up to sorple on 3-24-22 with regulator so 15586

Leak check start 1:47EST 28 HAHG Stop 1:52EST 28 in 1tg

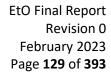
28.5 samin Hs start press JT





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

<b>D</b> F	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Ø.	RG ERGLIMS ID # 2042901-01		
AIR TOXICS SAMPLE CHAIN OF CUSTODY			
Lab Pre-Sampling	Site Code: # O South Charleston, WV Canister Number: 41642		
	City/State: Lab Initial Can, Press, ("Hg): 3 C		
	AQS Code: Cleaning Batch # :		
	Collection Date: Date Can. Cleaned: 4/18/22		
Sam	Options:		
Ď.	SNMOC (Y/N): Duplicate Event (Y/N):		
	TOXICS (Y/N): Y-fox Duplicate Can #:		
	METHANE (Y/N): Relinquished by: MB Date: 4/20/31		
Field	Received by: I Top TR- Femal Date: 4-21-22		
	Operator:  \(\sum_{er} \)   \(\sum_{er} \)   \(\sum_{er} \)   MFC Setting: \(\sum_{er} \)   \(\sum_{er} \)		
	System #: PR ~ \$5 73 Elapsed Timer Reset (Y/N): N		
	Setup Date: 4-26-3032 at 1413 EST Canister Valve Opened (Y/N):		
Field Initial Can. Press.: 29.0 psig psia (Hg (Circle one)			
	Recovery Date: 4-27-22 Sample Duration (3 or 24 hr): 2944		
>	Operator: D. DRAK = Elapsed Time: 1440 m. N		
Field	Field Final Can Press. 2./ psig psia [Hg] (Circle one)		
ž 2	Status: VALID VOID (Circle one) Canister Valve Closed (VN):		
œ	Relinquished by Taylor R- Fewall Date: 4-18-2000		
	L		
>	Received by: 61 Date: 1/25/27		
Recovery	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)			
	THREADS ARE STRIPED, REPLACED VALVE		
comments: Possible threading Issue			
	Check at 133=29,3 inHy Leat at 1409=29.0 in Hy		
العصا	ther at setup- 16,0°C, 749.4mm.Ag, Cloudy		
used updated leat check procedure			
LOSED VALVE AT 14:13 EST. CROSS TECADED VALVE (GK # 8)			



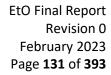


		4/29/22		
<b>D</b> E	ERG ERG	SLIMS ID # 9 2042901-02		
AIR TOXICS SAMPLE CHAIN OF CUSTODY				
	Site Code: #3 North Charleston WV	Canister Number: 41625		
ĺ	City/State:	Lah Initial Can. Press. (*Hg): 36		
	AQS Code:	Cleaning Batch #: H2-1354		
Lab Pre-Sampling	Collection Date:	Date Can. Cleaned:		
E E	Options:			
<b>9</b>	SNMOC (Y/N):	Duplicate Event (Y/N):		
<b>-</b>	TOXICS (YIN):etcx	Duplicate Can # :		
	METHANE (Y/N):	, ,		
	Relinquished by: KAB Date:	4/20/22		
	Received by Italia Late:	4-21-22		
_		MFC Setting: N/#		
Field Setup	System#: PR-65	Elapsed Timer Reset (Y/N):		
	Setup Date: 4-26-2022 at 1336 EST	Canister Valve Opened (Y/N):		
Field kritial Can. Press.: 29,0 psig psia (Hg) (Circle one)				
	Recovery Date: 4-27-22	Sample Duration (3 or 24 hr): 24		
_ ž	Operator: N. P.P.M.	Elapsed Time 24 (1 A - 17)		
Field	Field Final Can. Press.: psig_psi	NAMES I		
Field Recovery		Canister Valve Closed (VN):		
	Relinquished by: Jahl R. Jakob Date:	4-78-9099		
		418122		
Lab	Lab Final Can. Press.: "5 5 psig 7Hg (0	Circle one)		
Lab	Status: VALID VOID (Circle one)	Gauge: 1 (3) (Circle one)		
_	If void, why:			
Samples stored in Air Tox Lab (Room 130)				
Description of the Property of				
Comment				
Leak	at 1329 EST = 29.5 in Hay Leak at	+ 1334 EST = 29.4 in Ha		
wer.	ther at setup 10.00, 19	1.4 mm Hg, Cloudy		
<u>U.S.</u>	and the updated leak Check	1 or Valle of 13:39		
Jan 1 2 750.5 PS 1 1/2 WAVE OFF VALLE # 13:37 ES				
White: Sample Traveler Canary: Lab Copy Pink: Field Copy				



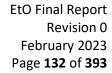
<b>D</b> F	RG:	ERG LIMS ID # 2.04 2901-03	
i Keystone	Park Drive, Suite 700, Morrisolile, NC 27580 AIR TOXICS SAMPLE (		
gui	Site Code: #15 Institute WV	Canister Number: 41610	
	City/State:	Lab Initial Can. Press. ("Hg): 36	
	Collection Date:	Cleaning Batch # : 142 ~ 1357  Date Can. Cleaned: 4//\$/32	
e E	Octions:	Date Call, Cleaned. 77187 4	
Lab Pre-Sampling	SNMOC (Y/N):	Duplicate Event (Y/N):	
Æ	TOXICS (Y/N): etex	Duplicate Can#:	
	METHANE (Y/N):		
	Relinquished by: (A)	Date: 4/10/22	
Field Setup	Received by: 1767 h Fenda	MFC Setting:	
	Operator: Tylec Fewer		
	System #:	Elapsed Timer Reset (Y/N):	
		psig psia (Hg) (Circle one)	
	Recovery Date: 4-26-202 4		
ě,	Operator: Tyler Fewell	Elapsed Time: 24'.00 hours	
Field Recovery	Field Final Can_Press:	psig psia (Hg Circle one)	
- 2		Canister Valve Closed (Y/N):	
	Relinquished by: Jali 7 R. Fewell	Date: 4787000	
	Received by: (1 K	Date: 4/25/27	
Recovery		(Hg) (Circle one)	
Cab Sove	Status: (VALID ) VOID (Circle one	) Gauge: 1 (3/ (Circle one)	
<u>ec</u>	If yold, why:		
		Samples stored in Air Tox Lab (Room 130)	
mment	s: leax at 1232 = 29.8 in Ha	Leat at 1237 = 27.0 in Hg	
ent!	NOT AT GET NO 31.0°C	Clardy, light wind, 745 4mx	
weather at pick up - 183°C, 749. Rmits, cloudy, lighton			
We had heavy tain evernight			

White: Sample Traveler





30 9 2 NA 1		
30 9 2 NA 1		
NA /		
νΑ /		
NA 1		
NA 1		
<u>/</u>		
24 /2		
1:4		
<u>Y</u>		
Stanta and the		
arcie one)		
arcie one)		
Operator:		





<b>I</b>	RG	ERG LIMS ID # 2042901-05			
501 Keyetone	601 Keyatone Park Drive, Suite 700, Montoville, NC 27560				
	AIR TOXICS SAMPLE (	CHAIN OF CUSTODY			
Lab Pre-Sampling	sile Code: #13 Institute, WV	Canister Number: 4/58Z			
	City/State:	Lab Initial Can. Press. ("Hg): 3 C			
	AQS Code:	Cleaning Batch #: HZ -1359			
	Collection Date:	Date Can. Cleaned: 9//8/72			
9 5	Options:				
_ ~~	SNMOC (Y/N):	Duplicate Event (Y/N):			
-	TOXICS (Y/N): +tox	Duplicate Can # :			
	METHANE (Y/N):	1.1			
	METHANE (Y/N):  Relinquished by:	Date: 42c/22			
Field	Received by Indet & French	Date: 4-21-22			
	Operator: Tyler Fchell	MFC Setting: N/A-			
	System #: PR - 75	Elapsed Timer Reset (Y/N): N			
E %	Setup Date: 4-25-2022 at 61	9 EST Canister Valve Opened (Y/N):			
	Field Initial Can. Press.: 29.9	psig psia Hg (Circle one)			
·	Recovery Date: 4-26-2022 4-11	— . — . — . — . — . — . — . — . — .			
		Elapsed Time: 25'0 hours			
Field	Field Final Can. Press.:	psig psia 'Hg (Circle one)			
正夏	Status: VALID VOID (Circle one	) Canister Valve Closed (Y/N):			
_	Reinquished by: Jake R. Bull				
ļ	L	Date: 4/25/27-			
3 -		Hg (Circle one)			
Lab	Status WALID VOID (Circle one	Gauge: 1 (3) (Circle one)			
æ		, Gauge. 1 (a) (Groevie)			
l	If void, why:	Samples stored in Air Tox Lab (Room 130)			
		Police			
Comments: Leak at 1009= 29.9 inty, Leat at 1014=29.5 into					
weat	her at bet-np - 294°C, 746	,8inHa-			
Wea	ther at PiCKUD - 14.9°C	750 Smorthy Chouch light wind			
we had heavy rain overnight.					



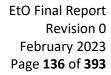
D.E	ERG LIMS ID# 2 072901-06		
	ro-	ENGLIMSID# ~ 0 12101 UV	
Keystone	Park Drive, Suite 700, Mortswille, NC 27550  AIR TOXICS SAMPLE	CHAIN OF CUSTODY	
Lab Pre-Sampling	sie code: #14 Inst: tute, wv	Canister Number: "[[ € 5]	
	City/State:	Leb Initial Can. Press. ("Hg): 3.6	
	AQS Code:	Cleaning Batch #: 1/2 -1/359	
	Collection Date:	Date Can. Cleaned: "/// 8/7/	
e ji	Options:		
- 05 p	SNMOC (Y/N):	Duplicate Event (Y/N):	
ā	TOXICS (Y/N): 2 tox	Duplicate Can#:	
	METHANE (Y/N): Refinquished by: UB	Date: 4/30/22	
	Received by Intell	Date: 42122 at 0927 EST TF	
Field Setup	Operator: Tyler Fewell	MFC Setting: N/A	
	System #: PR - 77	Elapsed Timer Reset (Y/N):	
	Setup Date: 4-25-2022 at 09	2.7 EST Carrister Valve Opened (Y/N):	
	Field Initial Can. Press: 29.9	psig psia (Hg) (Circle one)	
	Recovery Date: 4-26-2622 at 16		
Field	Operator: Tyler FEWE)	Elapsed Time: 25:32 Lours	
rield		psig_psia_Hg (Circle one)	
ĕ	Status: (VALID VOID (Circle (	and the second of the second o	
	Relinquished by July 2 K Sound	Date: <u>448-4-014</u>	
>	Received by GK	Date: 4/19/33	
Cover	Lab Final Cap, Press. 5,5 p	sig("Hg) (Circle one)	
Recovery	Status: VALID VOID (Circle of	ne) Gauge: 1 ((3) (Circle one)	
<u>us</u>	If void, why:		
		Samples stored in Air Tox Lab (Room 130)	
	09H E5T	F-20	
mments	Leak Check at 6019#= 2	9.8 in Ha Lent Check at 0924 = 28.8.	
beat	her at Getup - 300°C,	746.4 mm Hg , Sunny	
weather at DICK up - 14.8°C 750,5 minty cloudy light wind			
A PROPERTY.	we had heavy rain overnight.		
e }	ad heavy rain overni	h+.	



<b>D</b> F	RG:	ERG LIMS ID# 2042901-07		
601 Kesstone Park Drive. Stute 700, Monteville, NC 27590				
	AIR TOXICS SAMPLE	CHAIN OF CUSTODY		
	SHE CODE #4 NORTH Charles	on, W√ Canister Number: 11670		
Lab Pre-Sampling	City/State:	Lab Initial Can. Press. ("Hg): 30		
	AQS Code:	Cleaning Batch #: H2-13/6		
	Collection Date:	Date Can. Cleaned:'(/) & ≥		
1 E	Options:			
- %	SNMOC (Y/N):	Duplicate Event (Y/N):		
_	TOXICS (Y/N): etax	Duplicate Can # :		
	METHANE (Y/N):	, ,		
	Relinquished by:	Date: 4/10/22		
<u> </u>	Received by: J-4W? K-FairM	Date: 4-21-22		
Field Setup	Operator: Tyler Fewell	MFC Setting: N/A-		
	System #: PR - 79	Etapsed Timer Reset (Y/N):		
E &	Setup Date: 4-26-2022 413	#EST Canister Valve Opened (Y/N):		
	Field Initial Can. Press.: 437-30-30	_psig_psia_(Hg_)(Circle one)		
	Recovery Date: 4-27. 22	Sample Duration (3 or 24 hr): 24 /v. 4		
_	Operator: M. DRAKA	Elapsed Time: 24.0-579		
Field	Field Final Can. Press.: 2	psig psia (Hg) (Circle one) 1448 M. N.		
Field Recovery	Status: VALID VOID (Circle of	ne) Canister Valve Closed(VN):		
	Relinquished by: Jale R. Fewell	Date: 4-28-202		
	Received by: (1)	Date: 4/19/12		
leny	Lab Final Can. Press: 1, 75			
Lab	Status: VALID VOID (Circle	I		
n2	If void, why:			
Samples stored in Air Tox Lab (Room 130)				
Bab				
Comments		Into, Leat at 1311 = 29.4 in Ha		
We	ather at setup- 162°			
we	we used the updated leak Check procedure.			
عِماِت	ect VALV4 @ 13: 14 251	Temp 2019 PROSS 75/MMH9		
STEM IS TELFENG OFF TO THE REGIST OF THE VALVE GIVE				
White	Sample Travelor Ganary.	Lab Copy Pink: Field Copy		



<b>DERG</b>		ERG LIMS ID # 2042901-08					
AIR TOXICS SAMPLE CHAIN OF CUSTODY							
Lab Pre-Sampling	Site Code: #10 Institute, WV City/State: AQS Code: Collection Date: Options: SNIMOC (Y/N): TOXICS (Y/N): METHANE (Y/N):	Canister Number: 4/659 Lab Initial Can. Press. (*Hg): 30.0 Cleaning Batch #: 12 - (359) Date Can. Cleaned: 4/18/22  Duplicate Event (Y/N): Duplicate Can #:					
Field Setup	Operator: Tyler FCWe I) System #: PR - 9  Setup Date: 4-35-303-3 or K Field Initial Can. Press.: 30 in Ha	Date:					
Field Recovery	Operator: Tyler Felice     Field Final Can, Press: 2	Elapsed Time: 34.51 hours  Elapsed Time: 34.51 hours  psig psia (Hg) (Circle one)  one) Canister Valve Closed (Y/N):					
Lab Recovery	Received by:	Date: 4/7.5 /2 1- psig Hg (Circle one) one) Gauge: 1 3 (Circle one)  Samples stored in Air Tox Lab (Room 130)					
comments: Leak at 1037 = 30.0 intog leak at 1042 = 30.0 intog  Wenther at Setup 26.8°C, 746.4°C, Sunny, light wind  weather at pick up 14.7°C, #7505mmttg, cloudy, lightwind  We had heavy rain overnight.							

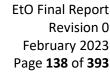




<b>⊘</b> E	ERG LIMS ID# 2.042901 - 09						
AIR TOXICS SAMPLE CHAIN OF CUSTODY							
	Site Code:# 16 Buffalo, WV Background Canister Number: 41607						
l	City/State: Lab Initial Can. Press. ("Hg): 3C						
Lab Pre-Sampling	AQS Code: Cleaning Batch # : H2 ~ 1359						
	Collection Date: Date Can. Cleaned: 1///8/32.						
9 8	Options:						
- %	SNMOC (Y/N): Duplicate Event (Y/N):						
•	TOXICS (Y/N): Duplicate Can # :						
}	METHANE (Y/N):  Relinquished by: KUD Date: 4/20/22						
Field	Received by: I for R. Fryndl Date: 4-11-12 11-578 EST TF						
	Operator: Tyle= Fewell MFC Setting: N/A						
	Operator: Tyler Fewell MFC Setting: N/A  System #: PR-53   C-36 Elapsed Timer Reset (Y/N): N						
ய க	Setup Date: 4-25-2012 At 05/8 EST Canister Valve Opened (Y/N): Y						
	Field Initial Can. Press.: 29.0. psig psia "Hg (Circle one)						
·	Recovery Date: 4 2 2018 of OSKET Sample Duration (3 or 24 hr): 34						
ح ا	Operator: Tyler Felicil Elapsed Time: 14.00						
Field Recovery	Field Final Can_ Press.: psig_psia ("Hg_)(Circle one)						
E 22	Status: (VALID VOID (Circle one) Canister Valve Closed (Y/N):						
_	Reinquished by: Jeff R. Jewell Date: 4182000						
}							
_ ≥							
Lab Recovery							
- 2	Status: (VALID) VOID (Circle one) Gauge: 1 (3) (Circle one)						
	If void, why:						
	Samples stored in Air Tox Lab (Room 130)						
Comment	TE STATE MESTER MANAGEMENT MANAGEMENT						
weather at SetelD - 55°F. Wenther at PXKND - 56.0°F							
PR-53 Raymentor Failed. Replaced With PR-36							
Turn	1 on at 05/8 Est						



Keyntores Park Drive, Suite 700, Morrisolle, NC 27580  AIR TOXICS SAMPLE C  Site Code: # 13 In Stitute, W/T	ERG LIMS ID # 2042901-10
AIR TOXICS SAMPLE C	HAIN OF CUSTORY
Site Code: # 13 TwGlituta WATT	HAIN OF CUSTOUT
	- 6 180 Day Number 44574
City/State:	Lab Initial Can. Press. ("Hg): 30.0
AOS Code:	Cleaning Batch #: #2-1397
Collection Date:  Options: SNMOC (Y/N):	Date Can. Cleaned: Y/18/2 Z
Options:	
g SNMOC (Y/N):	Duplicate Event (Y/N):
TOXICS (YIN): efex	Duplicate Can #:
METHANE (Y/N):	
Ratinguished by:	Date: 426/22
Received by: 4 Jeffer R. Force	Date: 4-21-22 47-1019ESTIF
Operator: Tyler- Feine !!	MFC Setting: NA
System #: ///A	Elapsed Timer Reset (Y/N):
5 Setup Date: 4-25-2002 at 1019	
	usig psia "Hg (Circle one)
Recovery Date: 4-262022 at 11	Not/+tanda Pontin da cara sa a 1974
	Elapsed Time:
	rsig psia "Hg (Circle one)
Status: (VALID VOID (Circle (J.)e)	Canister Valve Closed (Y/N):
Relinquished by Fell R. Fryll	Date: 438-202)
<del></del>	
Received by: 4 Receiv	Date: 4/29/12
Lab Final Can. Press.: 30 paig( Status: VALID VOID (Circle one)	Hg) (Circle one)
The state of the s	Gauge: 1 (3) (Circle one)
If void, why:	Samples stored in Air Tox Lab (Room 130)
TF 425 202)	Samples stored in Feb. 10x Lab (Footh 134)
mments took (hard at	
cather at setup 29.44. 746.8m	with Surry, light animal
canlador EN 15599 Failed, 17	placed with 15589
Ged as Trip blank.	
venther at Dict 40- 14.9°C	, 750. Brom Hg, cloudy, light w





#### **Appendix C Analytical Results**

First Sampling Period: January 25-26, 2022



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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly probabined. If you have received this report in error, please notify julie swift@erg.com and delete the report without retaining any copies.





U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

REPORTED: 02/07/22 14:24 601 57th Street, SE Charleston, WV 25304 SUBMITTED: 01/28/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE: PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

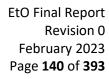
#### **ANALYTICAL REPORT FOR SAMPLES**

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

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 2 of 13







U.S. Environmental Protection Agency, Region 3

601 57th Street, SE Charleston, WV 25304 ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

Description: Guthrie WV Background Site Pressure @ Receipt: 2.50 "Hg

SITE CODE:

FILE #: 0344.00

AQS SITE CODE:

REPORTED: 02/07/22 14:24

SUBMITTED: 01/28/22

Lab ID: 2012807-01 Canister #: 33531

Sampled: 01/25/22 23:59

WV EtO

Received: 01/28/22 10:55

Analyzed: 01/31/22 20:35

Air Toxics by EPA Compendium Method TO-15

Results ppbv ug/m³

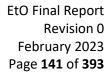
Flag ppbv

Analyte Ethylene oxide

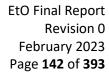
Comments:

0.0361 0.07

0.0261









**MERG** 

## **CERTIFICATE OF ANALYSIS**

FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 02/07/22 14:24
Charleston, WV 25304 SUBMITTED: 01/28/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

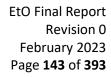
 Analyte
 Ppbv pbv ug/m³
 Flag ppbv ppbv

 Ethylene oxide
 ND
 ND
 U
 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety:

Page 4 of 13





U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 601 57th Street, SE REPORTED: 02/07/22 14:24 Charleston, WV 25304 SUBMITTED: 01/28/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

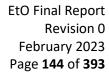
Air Toxics by EPA Compendium Method TO-15

MDL <u>Analyte</u> ppbv ug/m³ Flag ppbv Ethylene axide 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety:

Page 5 of 13







FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 02/07/22 14:24
Charleston, WV 25304 SUBMITTED: 01/28/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #4 North Charleston, WV
 Lab ID:
 2012807-04
 Sampled: 01/25/22 23:59

 Pressure @ Receipt:
 0.6 psig
 Canister #:
 19280
 Received: 01/28/22 10:55

 Comments:
 Regulator S/N-15584
 Analyzed: 01/31/22 23:39

Air Toxics by EPA Compendium Method TO-15

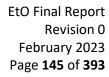
 Analyte
 Ppbv pbv
 ug/m³ pla
 Flag ppbv

 Ethylene axide
 0.0121
 0.02
 U 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 6 of 13







U.S. Environmental Protection Agency, Region 3

601 57th Street, SE Charleston, WV 25304 ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

Description: #10 Institute, WV Pressure @ Receipt: 0.45 psig Comments: Regulator S/N-15589 REPORTED: 02/07/22 14:24

FILE #: 0344.00

SUBMITTED: 01/28/22 AQS SITE CODE:

WV EtO SITE CODE:

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

2012807-05

Results

Lab ID:

Canister #: 40457

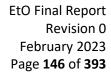
MDL ppbv 0.0261

<u>Analyte</u> ppbv ug/m³ Flag Ethylene oxide 0.0821 0.15

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 7 of 13





U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 601 57th Street, SE REPORTED: 02/07/22 14:24 Charleston, WV 25304 SUBMITTED: 01/28/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

WV EtO PHONE: (303) 414-1249 FAX: SITE CODE:

Description: #13 Institute, WV Sampled: 01/25/22 23:59 Lab ID: 2012807-06 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 MDL

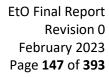
Results

<u>Analyte</u> ppbv ug/m³ Flag ppbv 0.0375 0.07 0.0261 Ethylene oxide

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 02/07/22 14:24 601 57th Street, SE Charleston, WV 25304 SUBMITTED: 01/28/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

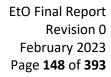
Air Toxics by EPA Compendium Method TO-15

Results MDL <u>Analyte</u> Flag ppbv ppbv ug/m³ Ethylene oxide 0.0376 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE Charleston, WV 25304 ATTN: Ms. Renu Chakrabarty REPORTED: 02/07/22 14:24 SUBMITTED: 01/28/22

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

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

Lab ID: 2012807-08 Sampled: 01/25/22 23:59
Canister #: 39938 Received: 01/28/22 10:55

Analyzed: 02/01/22 04:46

Air Toxics by EPA Compendium Method TO-15

Results

MDL ppbv

Analyte Ethylene oxide Flag

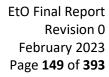
ppbv ug/m<sup>3</sup> 0.0505 0.09

0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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

			Source		RPD	
Analyte	Result	Units	Result	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

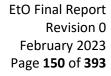
 Duplicate (B2A3110-DUP3)
 Source: 2012807-05
 Prepared: 01/25/22 Analyzed: 02/01/22
 U

 Ethylene oxide
 0.0797
 ppbv
 0.08
 2.97
 25

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**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

Analyte Result Units % Difference Limit (%) Notes

Air Toxics by EPA Compendium Method TO-15 - Quality Control

Sequence 2201069

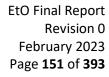
Calibration Check (2201069-CCV1) Prepared & Analyzed: 01/31/22

Ethylene oxide 2.55 ppbv 5.6 30.00

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 02/07/22 14:24
Charleston, WV 25304 SUBMITTED: 01/28/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

#### **Notes and Definitions**

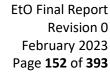
U Under Detection Limit
ND Analyte NOT DETECTED
NR Not Reported
MDL Method Detection Limit
RPD Relative Percent Difference

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.

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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.

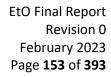
Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify julie.swift@erg.com and delete the report without retaining any copies.







U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

 601 57th Street, SE
 REPORTED: 03/22/22 11:51

 Charleston, WV 25304
 SUBMITTED: 02/18/22

 ATTN: Ms. Renu Chakrabarty
 AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

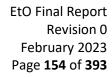
#### ANALYTICAL REPORT FOR SAMPLES

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

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 03/22/22 11:51
Charleston, WV 25304 SUBMITTED: 02/18/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

 Results
 MDL

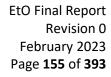
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.0884
 0.16
 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

 601 57th Street, SE
 REPORTED: 03/22/22 11:51

 Charleston, WV 25304
 SUBMITTED: 02/18/22

 ATTN: Ms. Renu Chakrabarty
 AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #15 Institute, WV
 Lab ID:
 2021802-02
 Sampled:
 02/16/22 12:11

 Pressure @ Receipt:
 0.30 "Hg
 Canister #:
 41558
 Received:
 02/18/22 11:39

 Comments:
 PR-87
 Analyzed:
 03/09/22 09:30

#### Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

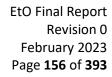
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 1.30
 2.35
 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 03/22/22 11:51
Charleston, WV 25304 SUBMITTED: 02/18/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #13 Institute, WV
 Lab ID:
 2021802-03
 Sampled: 02/16/22 11:14

 Pressure @ Receipt:
 0.10 "Hg
 Canister #:
 41632
 Received: 02/18/22 11:39

 Comments:
 PR-85
 Analyzed: 03/09/22 10:30

Air Toxics by EPA Compendium Method TO-15

 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.204
 0.37
 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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EtO Final Report Revision 0 February 2023 Page **157** of **393** 



#### CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE

REPORTED: 03/22/22 11:51

Charleston, WV 25304

Comments: PR-75

SUBMITTED: 02/18/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

Description: #14 Institute, WV Pressure @ Receipt: 0.50 "Hg 2021802-04

Canister #: 41556

Flag

Lab ID:

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

Results

MDL ppbv

Analyte Ethylene oxide ppbv ug/m³ 0.0958 0.17

0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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FILE #: 0344.00

SITE CODE:

WV EtO



#### CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

PHONE: (303) 414-1249 FAX:

601 57th Street, SE REPORTED: 03/22/22 11:51
Charleston, WV 25304 SUBMITTED: 02/18/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

 Description:
 #3 North Charleston, WV
 Lab ID:
 2021802-05
 Sampled: 02/16/22 13:03

 Pressure @ Receipt:
 0.30 "Hg
 Canister #:
 18831
 Received: 02/18/22 11:39

 Comments:
 PR-79
 Analyzed: 03/09/22 12:32

Air Toxics by EPA Compendium Method TO-15

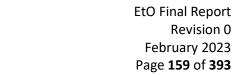
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.0227
 0.04
 U
 0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE

REPORTED: 03/22/22 11:51

Charleston, WV 25304

SUBMITTED: 02/18/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

WV EtO SITE CODE:

Description: #4 North Charleston, WV Pressure @ Receipt: 0.6 "Hg

Lab ID: 2021802-06 Sampled: 02/16/22 12:42

Comments: PR-86

Canister #: 41569

Received: 02/18/22 11:39

Analyzed: 03/09/22 13:33

Air Toxics by EPA Compendium Method TO-15

Results

MDL ppbv

<u>Analyte</u> Ethylene oxide

ppbv ug/m³ 0.0880 0.16

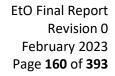
Flag

0.0261

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 601 57th Street, SE REPORTED: 03/22/22 11:51

Charleston, WV 25304 SUBMITTED: 02/18/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: WV EtO SITE CODE:

Description: #10 Institute, WV Lab ID: 2021802-07 Sampled: 02/16/22 11:36 Pressure @ Receipt: 0.10 "Hg Canister #: 41665 Received: 02/18/22 11:39 Comments: PR-91 Analyzed: 03/09/22 14:34

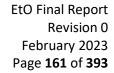
Air Toxics by EPA Compendium Method TO-15

Results MDL <u>Analyte</u> ppbv ug/m<sup>3</sup> Flag ppbv 0.0261 Ethylene oxide 0.0996 0.18

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Ethylene oxide

## **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:

0.09

SITE CODE: WV EtO

11.2

25

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium Batch B2C0807 - Summa Canister		5 - Quality Cont	rol			
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		

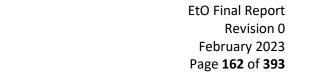
ppbv

0.0790

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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

Analyte Result Units % Difference Limit (%) Notes

ir 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

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Revision 0
February 2023
Page **163** of **393** 

# **NERG**

## **CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 03/22/22 11:51

601 57th Street, SE Charleston, WV 25304

SUBMITTED: 02/18/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

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.

Eastern Research Group

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety:

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EtO Final Report Revision 0 February 2023 Page **164** of **393** 

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.

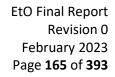
Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

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

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FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

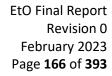
#### ANALYTICAL REPORT FOR SAMPLES

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
NV Eto	2032918-09	Air	03/24/22 01:55	03/29/22 11:24

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 # 15 Institute, WV
 Lab ID:
 2032918-01
 Sampled: 03/23/22 11:13

 Pressure @ Receipt:
 3.00 "Hg
 Canister #: 41614
 Received: 03/29/22 11:24

 Comments:
 PR-79
 Analyzed: 04/14/22 08:08

Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

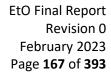
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.447
 0.81
 0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

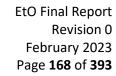
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.0714
 0.13
 0.0261

Eastern Research Group

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## **CERTIFICATE OF ANALYSIS**

FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #3 North Charleston, WV
 Lab ID:
 2032918-04
 Sampled: 03/23/22 12:09

 Pressure @ Receipt:
 3.00 "Hg
 Canister #:
 33506
 Received:
 03/29/22 11:24

 Comments:
 PR-87
 Analyzed:
 04/14/22 09:09

Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

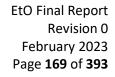
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.155
 0.28
 0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 05/11/22 14:59 601 57th Street, SE

Charleston, WV 25304 SUBMITTED: 03/29/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: WV EtO SITE CODE:

Description: #0 South Charleston, WV Lab ID: 2032918-05 Sampled: 03/23/22 12:35 Pressure @ Receipt: 7.00 "Hg Canister #: 19296 Received: 03/29/22 11:24 Comments: PR-77 Analyzed: 04/15/22 18:10

Air Toxics by EPA Compendium Method TO-15

Results MDL Analyte ppbv ug/m<sup>3</sup> Flag ppby Ethylene oxide 0.0800 0.14 0.0261

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February 2023
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# **DERG**

## **CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE Charleston, WV 25304

Comments: PR-85

ATTN: Ms. Renu Chakrabarty

PHONE: (303) 414-1249 FAX:

Pressure @ Receipt: 3.00 "Hg

Description: #4 North Charleston, WV

FILE #: 0344.00

REPORTED: 05/11/22 14:59 SUBMITTED: 03/29/22

AQS SITE CODE:

SITE CODE: WV EtO

Lab ID: 2032918-06 Sampled: 03/23/22 11:43
Canister #: 18879 Received: 03/29/22 11:24
Analyzed: 04/15/22 19:11

Air Toxics by EPA Compendium Method TO-15

Results

MDL

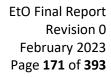
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.0794
 0.14
 0.0261

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE Charleston, WV 25304 REPORTED: 05/11/22 14:59 SUBMITTED: 03/29/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

WV EtO SITE CODE:

Description: #10 Institute, WV Pressure @ Receipt: 2.50 "Hg

Lab ID: 2032918-07 Canister #: 19661

Sampled: 03/23/22 10:13 Received: 03/29/22 11:24

Analyzed: 04/15/22 20:12

Comments: PR-91

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte ppby ug/m<sup>3</sup> Ethylene oxide 0.182 0.33

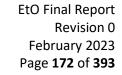
Flag

ppby 0.0261

Eastern Research Group

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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:

Description: #14 Institute, WV Pressure @ Receipt: 3.50 "Hg

Comments: PR-75

Analyte

Ethylene oxide

FILE #: 0344.00

REPORTED: 05/11/22 14:59 SUBMITTED: 03/29/22

AQS SITE CODE:

WV EtO SITE CODE:

Lab ID: 2032918-08 Sampled: 03/23/22 10:46 Canister #: 18878 Received: 03/29/22 11:24 Analyzed: 04/15/22 21:13

Air Toxics by EPA Compendium Method TO-15

MDL ppby ug/m<sup>3</sup> Flag ppby 0.0261 0.119 0.22

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 601 57th Street, SE REPORTED: 05/11/22 14:59 Charleston, WV 25304 SUBMITTED: 03/29/22 ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

Description: WV Eto Lab ID: 2032918-09 Sampled: 03/24/22 01:55 Pressure @ Receipt: 2.50 "Hg Canister #: 19300 Received: 03/29/22 11:24 Comments: Regulator SN 15586 Analyzed: 04/15/22 22:14

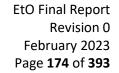
Air Toxics by EPA Compendium Method TO-15

Results MDL Analyte ppby ug/m<sup>3</sup> Flag ppby Ethylene oxide 0.0321 0.06 0.0261

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FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

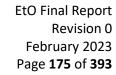
PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

Inalyte	Result	Units	Source Result	RPD	RPD Limit	Notes
ir Toxics by EPA Compendium Batch B2D1306 - Summa Canister		- Quality Cont	rol			
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	ppby	0.07	5.62	25	

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U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22
ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

2.19

Analyte	Result	Units	% Difference	Limit (%)	Notes	
Air Toxics by EPA Compendium Method TO-15 - Quality Control Sequence 2204035						
Calibration Check (22040	35-CCV1)	F	repared & Analyz	ed: 04/13/22		

Sequence 2204039

Ethylene oxide

 Calibration Check (2204039-CCV1)
 Prepared & Analyzed: 04/15/22

 Ethylene oxide
 2.21
 ppbv
 -8.3
 30.00

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EtO Final Report Revision 0 February 2023 Page **176** of **393** 



## **CERTIFICATE OF ANALYSIS**

FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 05/11/22 14:59
Charleston, WV 25304 SUBMITTED: 03/29/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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.

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EtO Final Report Revision 0 February 2023 Page **177** of **393** 

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.

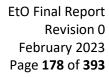
Release of the data contained in this data package and in the data submitted in the electronic data deliverable, has been authorized by the Program Manager, or the Program Manager's designee as verified by the following signature.

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

The information contained in this report and its attachment(s) are intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this report is strictly prohibited. If you have received this report in error, please notify <a href="mailto:julie.swift@erg.com">julie.swift@erg.com</a> and delete the report without retaining any copies.





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## **CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 06/22/22 14:19
Charleston, WV 25304 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

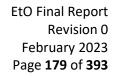
#### ANALYTICAL REPORT FOR SAMPLES

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

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U.S. Environmental Protection Agency, Region 3 FILE #: 0344.00

601 57th Street, SE REPORTED: 06/22/22 14:19
Charleston, WV 25304 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: 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

 Results
 MDL

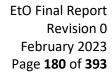
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.146
 0.26
 0.0480

Eastern Research Group

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FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 06/22/22 14:19
Charleston, WV 25304 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #3 North Charleston, WV
 Lab ID:
 2042901-02
 Sampled: 04/27/22 13:36

 Pressure @ Receipt:
 5.50 "Hg
 Canister #:
 41625
 Received: 04/29/22 10:11

 Comments:
 PR-65
 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

Eastern Research Group

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**EtO Final Report** Revision 0 February 2023 Page **181** of **393** 

#### CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

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

SITE CODE: WV EtO

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

2042901-03 Lab ID: 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 Ethylene oxide ppby ug/m<sup>3</sup> Flag 0.183 0.33

ppby

0.0480

Eastern Research Group

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# **CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

SUBMITTED: 04/29/22 to 05/27/22

Charleston, WV 25304

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

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

Lab ID: 2042901-04 Canister #: 41673 Sampled: 04/26/22 11:58 Received: 04/29/22 10:11

Comments:

Analyzed: 05/11/22 09:33

Air Toxics by EPA Compendium Method TO-15

Results

MDL

Analyte Ethylene oxide ppbv ug/m<sup>3</sup> 0.271 0.49 Flag ppbv 0.0480

Eastern Research Group

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**EtO Final Report** Revision 0 February 2023 Page **183** of **393** 

## CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

WV EtO SITE CODE:

Description: #13 Institute, WV Pressure @ Receipt: 3.00 "Hg

Lab ID: 2042901-05

Sampled: 04/26/22 11:20 Received: 04/29/22 10:11

Canister #: 41582 Comments: PR-75

Analyzed: 05/11/22 10:36

Air Toxics by EPA Compendium Method TO-15

Results

MDL

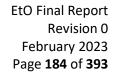
Analyte ppby ug/m<sup>3</sup> Ethylene oxide 0.124 0.22

Flag ppby 0.0480

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

Analyte

Ethylene oxide

SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

Description: #14 Institute, WV Pressure @ Receipt: 5.50 "Hg Lab ID: 2042901-06 Canister #: 41651 Sampled: 04/26/22 10:59

Comments: PR-77

r#: 41651 Received: 04/29/22 10:11
Analyzed: 05/19/22 01:36

Air Toxics by EPA Compendium Method TO-15

| Results | MDL | | Ppby ug/m<sup>3</sup> | Flag | Ppby | Ppby ug/m<sup>3</sup> | Flag | Ppby | P

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 601 57th Street, SE REPORTED: 06/22/22 14:19 Charleston, WV 25304 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

Description: #4 North Charleston, WV Lab ID: 2042901-07 Sampled: 04/27/22 13:14 Canister #: 41670 Pressure @ Receipt: 1.75 "Hg Received: 04/29/22 10:11 Comments: PR-79 Analyzed: 05/19/22 02:36

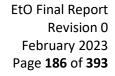
Air Toxics by EPA Compendium Method TO-15

MDL Results Analyte ppby ug/m<sup>3</sup> Flag ppby Ethylene oxide 0.277 0.50 0.0480

Eastern Research Group

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FILE #: 0344.00

U.S. Environmental Protection Agency, Region 3

601 57th Street, SE REPORTED: 06/22/22 14:19
Charleston, WV 25304 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty AQS SITE CODE:

PHONE: (303) 414-1249 FAX: SITE CODE: WV EtO

 Description:
 #10 Institute, WV
 Lab ID:
 2042901-08
 Sampled: 04/26/22 12:36

 Pressure @ Receipt:
 0.50 "Hg
 Canister #:
 41659
 Received:
 04/29/22 10:11

 Comments:
 PR-91
 Analyzed:
 05/19/22 03:36

Air Toxics by EPA Compendium Method TO-15

 Results
 MDL

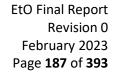
 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.674
 1.22
 0.0480

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE

REPORTED: 06/22/22 14:19 SUBMITTED: 04/29/22 to 05/27/22

Charleston, WV 25304

Comments: PR-36

AQS SITE CODE:

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

SITE CODE: WV EtO

Description: #16 Buffalo, WV Background Pressure @ Receipt: 7.50 "Hg Lab ID: 2042901-09

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

Canister #: 41607

Analyzed: 05/19/22 04:36

Air Toxics by EPA Compendium Method TO-15

Results ppby ug/m<sup>3</sup> MDL

Analyte Ethylene oxide ppby ug/m<sup>3</sup> Flag ppby 0.365 0.66 0.0480

Eastern Research Group

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601 57th Street, SE

Comments: PR-79

# **CERTIFICATE OF ANALYSIS**

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

Charleston, WV 25304 ATTN: Ms. Renu Chakrabarty SUBMITTED: 04/29/22 to 05/27/22 AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

WV EtO SITE CODE:

Description: #3 North Charleston, WV Pressure @ Receipt: 1.30 "Hg

Sampled: 05/25/22 07:02 Lab ID: 2052715-01 Canister #: 35135 Received: 05/27/22 10:49 Analyzed: 06/04/22 07:49

Air Toxics by EPA Compendium Method TO-15

Results

MDL Analyte ppby ug/m<sup>3</sup> Flag ppby Ethylene oxide 0.33 0.0480

Eastern Research Group

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Analyte

Ethylene oxide

## 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:

Description: #15 Institute, WV Pressure @ Receipt: 2.0 "Hg

n: #15 Institute WV

Comments: PR-73

FILE #: 0344.00

REPORTED: 06/22/22 14:19 SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

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

2052715-02

 Results
 MDL

 ppby
 ug/m³
 Flag
 ppby

 1.23
 2.22
 0.0480

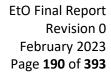
Lab ID:

Canister #: 35122

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

Comments:

SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

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

 Results
 MDL

 Analyte
 ppbv
 ug/m³
 Flag
 ppbv

 Ethylene oxide
 0.0733
 0.13
 0.0480

Eastern Research Group

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## CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

Comments: PR-36

SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE: WV EtO SITE CODE:

PHONE: (303) 414-1249 FAX:

Lab ID: 2052715-04

Description: #16 Buffalo, WV Background Pressure @ Receipt: 5.50 "Hg

Sampled: 05/25/22 05:30 Canister #: 35104 Received: 05/27/22 10:49 Analyzed: 06/07/22 21:47

Air Toxics by EPA Compendium Method TO-15

0.0480

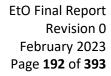
MDL Results ppby

Analyte ppbv ug/m<sup>3</sup> Flag Ethylene oxide 0.169 0.31

Eastern Research Group

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U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00

601 57th Street, SE Charleston, WV 25304 REPORTED: 06/22/22 14:19 SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

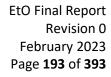
SITE CODE: WV EtO

Analyte	Result	Units	Source Result	RPD	RPD Limit	Notes
Air Toxics by EPA Compendium	Method TO-15	- Quality Cont	rol			
Batch B2E1010 - Summa Canister	Prep					
Blank (B2E1010-BLK1)			Prepared: 05/06/22 Ana	lyzed: 05/10/22	2	
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 Ana	lyzed: 06/03/22	2	
Ethylene oxide	ND	ppbv				U
Batch B2F0712 - Summa Canister	Prep					
Blank (B2F0712-BLK1)			Prepared: 05/19/22 Ana	lyzed: 06/07/22	2	
Ethylene oxide	ND	ppbv				U

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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: 06/22/22 14:19 SUBMITTED: 04/29/22 to 05/27/22

AQS SITE CODE:

SITE CODE: WV EtO

Inalyte	Result	Units	% Difference	Limit (%)	Notes
ir Toxics by EPA Compendium Sequence 2205026	Method TO-15	- Quality Con	trol		
Calibration Check (2205026-CCV	1)	P	repared & Analyze	ed: 05/10/22	
Ethylene oxide	2.38	ppbv	-1.4	30.00	
Sequence 2205048					
Calibration Check (2205048-CCV	1)	P	repared & Analyze	ed: 05/18/22	
Ethylene oxide	2.97	ppbv	23.3	30.00	
Sequence 2206010					
Calibration Check (2206010-CCV	1)	P	repared & Analyze	ed: 06/03/22	
Ethylene oxide	2.64	ppbv	9.5	30.00	
Sequence 2206021					
Calibration Check (2206021-CCV	1)	P	repared & Analyze	ed: 06/07/22	
Ethylene oxide	2.44	ppbv	1.1	30.00	

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## CERTIFICATE OF ANALYSIS

U.S. Environmental Protection Agency, Region 3

FILE #: 0344.00 REPORTED: 06/22/22 14:19

601 57th Street, SE Charleston, WV 25304

SUBMITTED: 04/29/22 to 05/27/22

ATTN: Ms. Renu Chakrabarty

AQS SITE CODE:

PHONE: (303) 414-1249 FAX:

SITE CODE: WV EtO

**Notes and Definitions** 

U Under Detection Limit
ND Analyte NOT DETECTED

NR Not Reported MDL Method Detect

RPD

Method Detection Limit 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.

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# **Appendix D Source Characterization Tables**

Institute Area: EtO Source Descriptions

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					
2300	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	South Charleston Area: EtO Source Description:  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  Union Carbide-Oxide Adducts	Point
T9187	Union Carbide-Oxide Adducts	Point
10.000.000.0000	Divinity and Chinadage (1) 1 and Chinadage (1) a	
T9223 T9228	Union Carbide-Oxide Adducts Union Carbide-Oxide Adducts	Point
		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)

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

	UTM Cod	ordinates			Stack	Stack Exit	Stack
Model ID	East (m)	North (m)	Elevation (m)	Stack Height (m)	Temperature (K)	Velocity (m/s)	Diameter (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
2300	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

Institute Area: EtO Volume Source Locations and Paramaters						
	UTM Cod	ordinates			Initial Lateral	
			Elevation	Release	Dimension	Initial Vertical
Model ID	East (m)	North (m)	(m)	Height (m)	(m)	Dimension (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

South Charleston Area: EtO Point Source Locations and Stack Paramaters								
	UTM Cod	ordinates			Stack	Stack Exit	Stack	
			Elevation	Stack Height	Temperature <sup>1</sup>	Velocity	Diameter	
Model ID	East (m)	North (m)	(m)	(m)	(K)	(m/s)	(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)

		ordinates	Jiii Jource	Locations and	Stack Paramaters Stack	Stack Exit	Stack
	01111 001	, amates	Elevation	Stack Height	Temperature <sup>1</sup>	Velocity	Diameter
Model ID	East (m)	North (m)	(m)	(m)	(K)	(m/s)	(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)

	UTM Cod	ordinates			Stack	Stack Exit	Stack
			Elevation	Stack Height	Temperature <sup>1</sup>	Velocity	Diameter
Model ID	East (m)	North (m)	(m)	(m)	(K)	(m/s)	(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 <sup>2</sup>	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX <sup>2</sup>	439938.84	4247272.37	180.07	14.63	373.15	10.00	0.08
1RX <sup>2</sup>	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

<sup>&</sup>lt;sup>1</sup>Per the AERMOD User's Guide, a stack temperature of "0 K", is input for ambient temperature.

<sup>&</sup>lt;sup>2</sup>Horizontal Point Source



#### South Charleston Area: EtO Area Source Locations and Stack Paramaters

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

## South Charleston Area: Line Source Endpoint Coordinates and Elevation

	Line Endpoint #1	UTM Coordinates	Line Endpoint #2		
Model ID	East (m)	North (m)	East (m)	North (m)	Elevation (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

	UTM Cod	ordinates		Release		
			Elevation	Height	Initial Lateral	Initial Vertical
Model ID	East (m)	North (m)	(m)	(m)	Dimension (m)	Dimension (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

matitute Area. Form Source Eto Emission Nates							
	EtO Emission Rate (g/s)						
Model ID	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			
2300	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

institute Area: Volume Source Eto Emission Rates							
	EtO Emission Rate (g/s)						
Model ID	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

South Charleston Area: Point Source EtO Emission Rates							
			n Rate (g/s)	perincologia appresentati			
Model ID	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)

South Charleston Area: Point Source EtO Emission Rates (Continued)							
		EtO Emissio	n Rate (g/s)				
Model ID	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)

	EtO Emission Rate (g/s)						
Model ID	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 <sup>1</sup>	0.0000E+00	0.0000E+00	5.2415E-05	0.0000E+00			
2RX <sup>1</sup>	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00			
3RX <sup>1</sup>	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			

<sup>&</sup>lt;sup>1</sup>Horizontal Point Source



#### South Charleston Area: Area Source EtO Emission Rates

	EtO Area Emission Rate [g/(s - m²)]			
Model ID	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

	EtO Line Source Emission Rate [g/(s - m²)]				
Model ID	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

South Charleston Area. Volume Source Eto Emission Rates							
	EtO Volume Emission Rate (g/s)						
Model ID	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**

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#### January Monitoring Event AERMOD Source Input: Institute

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WVDAQ - Monitoring Event 1 **
**
     2022 Event 1 Emissions
**
** 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 2300 POINT 432192.7629 4248376.801 181.62
   LOCATION 230HH POINT 432172.9967 4248384.18 181.56
    SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
   STCID PTEMTS STRINGT STRUMP STRVET STRUTA
(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
**
                             7.00
                                       0.00
                                                 0.00
                                                          0.00
                                                                   25.90
                                                                             25.90
SO BUILDHGT 230HH
SO BUILDHGT 230HH
                                      25.90
                            25.90
                                                25.90
                                                         25.90
                                                                    0.00
                                                                              0.00
SO BUILDHGT 230HH
SO BUILDHGT 230HH
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                                                                   25.90
                             7.00
                                       7.00
                                                 7.00
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SO BUILDHGT 230HH
                            25.90
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                                                25.90
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SO BUILDHGT 230HH
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SO BUILDWID 230HH
                            48.55
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                                                 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
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                             0.00
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                                                                    0.00
                                                                              0.00
                                      23.66
SO BUILDWID 230HH
                            27.75
                                                20.22
                                                         22.87 27.40
                                                                   22.09
                                                                             24.75
SO BUILDWID 230HH
                                      27.75
                                                28.00
                            26.65
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SO BUILDWID 230HH
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                                                                    0.00
                                                                              0.00
SO BUILDLEN 230HH
                            39.34
                                       0.00
                                                 0.00
                                                          0.00
                                                                   30.33
                                                                             30.88
                            30.50
SO BUILDLEN 230HH
                                      29.19
                                                27.00
                                                         23.99
                                                                    0.00
                                                                              0.00
SO BUILDLEN 230HH
                             0.00
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                                                 0.00
                                                          0.00
                                                                    0.00
                                                                              0.00
SO BUILDLEN 230HH
                            30.99
                                      30.16
                                                30.38
                                                         32.18
                                                                   30.33
                                                                             30.88
                            30.50
                                                27.00
                                                         23.99
SO BUILDLEN 230HH
                                      29.19
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SO BUILDLEN 230HH
                             0.00
                                       0.00
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                                                                              0.00
               230HH
                            12.04
                                                          0.00
SO XBADI
                                       0.00
                                                 0.00
                                                                   27.75
                                                                             28.88
SO XBADJ
              230HH
                            29.13
                                      28.50
                                                27.00
                                                         24.68
                                                                    0.00
                                                                              0.00
                                                          0.00
SO XBADJ
               230HH
                             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
               230HH
                             0.00
                                       0.00
                                                 0.00
                                                          0.00
                                                                    0.00
SO XBADJ
                                                                              0.00
SO YBADJ
              230HH
                           -24.39
                                       0.00
                                                 0.00
                                                          0.00
                                                                  -11.48
                                                                             -3.80
                                                         25.74
SO YBADJ
               230HH
                             4.00
                                               19.00
                                                                    0.00
                                      11.68
                                                                              0.00
SO YBADI
              230HH
                             0.00
                                       0.00
                                                 0.00
                                                          0.00
                                                                    0.00
                                                                              0.00
                            13.99
                                       8.06
                                                                   11.48
SO YBADJ
              230HH
                                                 1.20
                                                         -6.27
                                                                              3.80
SO YBADJ
               230HH
                            -4.00
                                     -11.68
                                              -19.00
                                                        -25.74
                                                                    0.00
                                                                              0.00
SO YBADJ
              230HH
                             0.00
                                       0.00
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SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDLEN SO BUI	230K 230K 230K 230K 230K 230K 230K 230K	25.90 25.90 25.90 25.90 25.90 23.99 26.65 28.85 27.40 30.50 18.76 27.40 30.50 18.76 27.40 30.50 18.76 2.84 9.23 -1.27 -30.24 -39.73 -17.50 -19.00 4.86 23.40	25.90 25.90 25.90 25.90 25.90 20.24 27.75 30.33 25.97 29.19 22.09 25.97 29.19 22.09 6.58 8.75 -7.18 -32.55 -37.94 -14.91 -15.93 9.07 24.50	25.90 25.90 25.90 25.90 25.90 15.88 28.00 30.88 26.49 27.00 24.75 26.49 27.00 24.75 8.33 8.00 -12.88 -34.82 -35.00 -11.87 -12.37 13.00 24.87	25.90 25.90 25.90 25.90 25.90 18.76 27.40 30.50 28.85 23.99 26.65 28.85 23.99 26.65 8.97 7.01 -18.19 -37.82 -31.00 -8.46 -8.11 16.54 24.48	25.90 25.90 25.90 25.90 25.90 25.97 29.19 30.33 20.24 27.75 30.33 20.24 27.75 9.34 5.81 -22.94 -39.67 -4.81 -3.86 19.57 23.34	25.90 25.90 25.90 25.90 25.90 24.75 26.49 27.00 30.88 15.88 28.00 9.43 4.43 -27.00 -40.31 -20.31 -1.00 0.51 21.58 21.50



SO BUILDHGT 230L 25.90 26.90 2	SO YBADJ SO YBADJ	230K 230K	19.00 -4.86	15.93 -9.07	12.37 -13.00	8.11 -16.54	3.86 -19.57	-0.51 -21.58
SO BUILDHGT 230L 25.90 26.90 2	SO YBADJ	230K	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO         BUILDHGT         230L         25.90         26.90         24.75         26.90         28.90         26.91         27.00         28.90         26.91         27.00         28.90								
SO BUILDHGT 230L 25.90 25.90 25.90 25.90 25.90 25.90 25.90 SO BUILDHGT 230L 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230L 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230L 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230L 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230L 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230L 23.99 20.24 15.88 30.50 27.40 25.97 26.49 SO BUILDWID 230L 23.99 20.24 15.88 30.50 27.40 25.97 26.49 SO BUILDWID 230L 28.85 30.33 30.88 30.50 27.91 27.00 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230L 27.40 25.97 26.49 28.85 30.33 30.88 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 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDHGT 230M 25.90								
SO BUILDHGT 230L 23.99 22.90 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 28.85 30.33 30.88 30.50 29.19 27.00 24.75 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 24.75 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 24.75 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 24.75 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 24.75 SO BUILDWID 230L 28.85 30.33 30.88 30.50 29.19 27.00 25.90 25.90 25.90 25.90 25.90 24.75 26.49 28.85 30.33 30.88 30.50 29.19 27.00 25.91 20.20 24.75 26.65 27.75 28.00 25.91 27.00 25.91 20.20 24.75 26.65 27.75 28.00 25.91 27.50 25.91 27								
SO BUILDWID 230L				25.90				
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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 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230L 30.50 29.19 27.00 23.99 20.24 15.88 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 -25.72 -26.66 -27.72 -29.74 -30.84 -31.02 SO XBADJ 230L -12.53 -11.42 -9.96 -8.21 -6.20 -4.00 SO YBADJ 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 5.12 7.68 10.00 12.02 13.67 14.48 SO YBADJ 230L 5.12 7.68 10.00 12.02 13.67 14.48 SO YBADJ 230L 5.12 7.68 10.00 12.02 13.67 14.48 SO YBADJ 230L 5.51 7.52 5.90 25.90 25.90 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 25.90 SO BUILDHGT 230M 25.90 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 25.90 SO BUILDHGT 230M 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDHGT 230M 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDHGT 230M 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 28.85 30.33 30.88 30.50 29.19 27.00 23.99 20.24 15.88								
SO BUILDLEN 230L								10000 3000 1000000
SO BUILDLEN 230L								
SO BUILDLEN 230L								
SO BUILDLEN 230L								
SO BUILDLEN 230L				25.97				30.88
SO XBADD 230L -1.68 0.69 1.23 0.89 0.52 0.13   SO XBADD 230L -0.26 -0.64 -1.00 -1.33 -1.62 -1.87   SO XBADD 230L -6.23 -10.67 -14.78 -18.45 -21.55 -24.00   SO XBADD 230L -25.72 -26.66 -27.72 -29.74 -30.84 -31.02   SO XBADD 230L -30.25 -28.56 -26.00 -22.65 -18.62 -14.02   SO XBADD 230L -12.53 -11.42 -9.96 -8.21 -6.20 -4.00   SO YBADD 230L -10.66 -8.50 -6.08 -3.15 -0.37   2.41   SO YBADD 230L 5.12 7.68 10.00 12.02 13.67 14.48   SO YBADD 230L 15.31 15.68 15.58 15.00 13.96 12.50   SO YBADD 230L 10.66 8.50 6.08 3.15 0.37 -2.41   SO YBADD 230L 15.31 15.68 15.58 15.00 13.96 12.50   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 230L -5.12 -7.68 -10.00 -12.02 -13.67 -14.48   SO YBADD 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 BUILDHGT 230M 25.90 25.90 25.90 25.90 25.90 25.90 25.90   SO BUILDHGT 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 28.85 30.33 30.88 30.50 29.19 27.00   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49   SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88   SO BUILDLEN 230M 30.50 29								
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SO XBADJ 230L								
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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 BUILDHGT 230M 25.90 25.90 25.90 25.90 25.90 25.90 SO BUILDHGT 230M 23.99 20.24 15.88 18.76 22.09 24.75 SO BUILDWID 230M 23.99 20.24 15.88 18.76 22.09 24.75 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 23.99 20.24 15.88 18.76 22.09 24.75 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 26.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 26.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 26.85 30.33 30.88 30.50 29.19 27.00 SO BUILDWID 230M 26.65 27.75 28.00 27.40 25.97 26.49 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 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88 SO BUILDLEN 230M 30.50 29.19 27.00 23.99 20.24 15.88								
SO BUILDHGT 230M 25.90 25.90 25.90 25.90 25.90 25.90 SO BUILDHGT 230M 25.90 25								
SO BUILDHGT         230M         25.90								
SO BUILDHGT         230M         25.90         25.97         26.49         28.85         30.33	SO BUILDHGT	230M	25.90	25.90	25.90	25.90	25.90	25.90
SO         BUILDHGT         230M         25.90								
SO BUILDHGT         230M         25.90         24.75         26.49         28.85         30.33         30.88         30.50         29.19         27.00         28.95         20.33         30.88         30.50         29.19         27.00         25.97         26.49         28.85         30.33         30.88         30.50         29.19         27.00         23.85         30.33         30.88         30.50         29.19         27.00         23.85         30.33         30.88         30.50         29.19         27.00								
SO BUILDHGT         230M         25.90         24.75           SO BUILDWID         230M         26.65         27.75         28.00         27.40         25.97         26.49           SO BUILDWID         230M         26.65         27.75         28.00         27.40         25.97         26.49           SO BUILDWID         230M         26.65         27.75         28.00         27.40         25.97         26.49           SO BUILDLEN         230M         26.65         27.75         28.00         27.40         25.97         26.49           SO BUILDLEN         230M         27.40         25.97         26.49         28.85         30.33         30.88           SO BUILDLEN         230M         27.40         25.97         26.49         28.85         30.33         30.88           SO BUILDLEN         230M         18.76         22.09         24.75         26.65								
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 BUILDLEN 230M         28.85         30.33         30.88         30.50         29.19         27.00           SO BUILDLEN 230M         30.50         29.19         27.00         23.99         20.24         15.88           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         30.50         29.19         27.00         23.99         20.24         15.88           SO BUILDLEN 230M         30.50         29.19         27.00         23.99         20.24         15.88           SO BUILDLEN 230M         30.50         29.19         27.00         23.99	SO BUILDHGT	230M	25.90					25.90
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 BUILDLEN         230M         27.40         25.97         26.49         28.85         30.33         30.88           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         30.50         29.19         27.00         23.99         20.24 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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 BUILDLEN         230M         28.85         30.33         30.88         30.50         29.19         27.00           SO BUILDLEN         230M         30.50         29.19         27.00         23.99         20.24         15.88           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         30.50         29.19         27.00         23.99         20.24         15.88           SO BUILDLEN         230M         30.50         29.19         27.00         23.99         20.24         15.88           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 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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         30.50         29.19         27.00         23.99         20.24         15.88           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         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         23.04         -21.34         -25.16         -28.21								
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         30.50         29.19         27.00         23.89         20.24         15.88           SO BUILDLEN         230M         30.50         29.19         27.00         23.99         20.24         15.88           SO BUILDLEN         230M         30.50         29.19         27.00         23.99         20.24         15.88           SO KBADJ         230M         3.76         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								
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 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 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 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     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     -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 -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								
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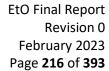


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SO YBADJ
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SO YBADJ
              230M
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                                    -6.46
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SO YBADJ
              230M
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              230M
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SO YBADJ
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SO BUILDLEN 221A
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SO BUILDLEN 221A
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SO BUILDLEN 221A
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SO BUILDLEN 221A
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SO BUILDLEN 221A
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SO XBADJ
              221A
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SO XBADJ
              221A
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SO XBADJ
              221A
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              221A
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SO XBADJ
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SO XBADJ
              221A
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              221A
SO XBADJ
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SO YBADJ
              221A
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SO YBADJ
              221A
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SO YBADJ
              221A
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   YBADJ
              221A
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SO
   YBADJ
SO YBADJ
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** 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 Rail VOLUME 431632 4248843 182.332
LOCATION Rail 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 230M 230M
SRCGROUP 230M 230M
SRCGROUP 230L 230L
SRCGROUP 230L 230L
SRCGROUP 230H 230HH
SRCGROUP 230H 230HH
SRCGROUP POINT 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

```
**Ethylene oxide - South Charleston, WV Monitoring Event #1 (Jan 25-26, 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
44
     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 19507 POINT 438886.7718 4136148.361 183.29
SO LOCATION 19507 POINT 438886.7718 4136148.361 183.29
SO LOCATION 19509 POINT 439638.2105 4247104.283 183.92
SO LOCATION 19510 POINT 439647.5443 4247102.437 183.85
SO LOCATION 19511 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 19555 POINT 439773.7782 4247078.745 183.94
SO LOCATION 19556 POINT 439758.9003 4247075.194 183.97
SO LOCATION 19562 POINT 439747.3508 4247084.491 184.17
SO LOCATION 19563 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 19613 POINT 439661.5443 4247134.804 165.25
SO LOCATION 19616 POINT 439666.5424 4247084.54 184.3
SO LOCATION 19617 POINT 439717.7941 4247104.02 184.24
SO LOCATION 19619 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 439681.9445 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 19646 POINT 439788.6277 4247040.601 184.21 SO LOCATION 19649 POINT 439780.6377 4247049.731 184.31 SO LOCATION 19734 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 19815 POINT 439696.1627 4247131.924 183.06
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 0.59833059 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 0.18597655 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 LOOITT1 POINT 439641.71 4247081.619 184.31
SO LOCATION LOO1TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION LOOITT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION LOOITT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION LOOITT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION LOCATION 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
*******************
** "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 18314 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 440079.3443 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 T8344 1.1606E-05 15.5448 0 0.17/029833 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 T8373 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8373 1.1606E-05 10.668 0 1.53139994 0.051816
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 TENC VOLUME 439987 4247262 180.53
** Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM TFNC 4.4753E-05 1.2192 0.741860465 0.283534884
 *******************
 ** Covestro - South Charleston, WV
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** Ethylene Oxide - All Sources - Point and Fugitive
** Covestro Fugitive Sources
** Covestro EOO3 Fugitives - CEOO3F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
    Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 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
                                                   12.10
SO BUILDHGT 1RX
                         12.10
                                 12.10
                                          12.10
                                                            12.10
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SO BUILDHGT 1RX
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                                                            12.10
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SO BUILDHGT 1RX
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SO BUILDHGT 1RX
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SO BUILDHGT 1RX
SO BUILDHGT 1RX
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                                                            12.10
                                                                    12.10
SO BUILDWID 1RX
                                                            53.68
57.50
                         30.25
                                          40.39
                                                   47.76
                                 31.80
                                                                     57.96
                         60.49
SO BUILDWID 1RX
                                                   57.00
                                          60.00
                                 61.17
                                                                     60.20
SO BUILDWID 1RX
                         61.07
                                 60.09
                                          57.27
                                                   52.72
                                                            46.57
                                                                     39.00
SO BUILDWID 1RX
                         30.25
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                                                            53.68
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SO BUILDWID 1RX
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SO BUILDWID 1RX
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                                                            46.57
                                                                     57.27
SO BUILDLEN 1RX
                         57.00
                                          60.20
                                 57.50
                                                   61.07
                                                            60.09
                         52.72
47.76
                                           39.00
SO BUILDLEN 1RX
                                  46.57
                                                   30.25
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                                          57.96
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SO BUILDLEN 1RX
                                  53.68
                                                            61.17
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                         57.00
                                                   61.07
                                 57.50
                                          60.20
                                                            60.09
SO BUILDLEN 1RX
                                                                     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
                                                                    -47.55
SO XBADJ
             1RX
                        -60.83
                                 -61.09
                                         -60.36
                                                  -57.81
                                                           -53.49
                                                                    -2.83
SO XBADJ
             1RX
                        -40.17
                                -31.56
                                         -22.00
                                                  -11.77
                                                           -3.67
SO XBADJ
             1RX
                         -1.90
                                 -0.92
                                           0.10
                                                    1.11
                                                             2.09
                                                                     3.00
                                           0.16
                          3.82
                                  3.58
                                                   -3.27
                                                                     -9.72
SO XBADI
             1RX
                                                            -6.59
                                                 -18.48
                                                                   -37.56
                        -12.55
                                                          -28.13
SO XBADJ
                                -15.01
                                         -17.00
             1<sub>RX</sub>
SO XBADJ
             1RX
                        -45.86
                                -52.76
                                        -58.06
                                                 -61.59
                                                          -63.26
                                                                   -63.00
                                                 -21.98
SO YBADJ
             1RX
                         -3.36 -12.23 -17.37
                                                          -25.92 -29.08
                               -32.67
                                                          -32.33 -30.26
SO YBADJ
             1RX
                        -31.35
                                        -33.00 -32.33
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SO YBADJ SO YBADJ SO YBADJ SO YBADJ	1RX 1RX 1RX 1RX	-27.27 3.36 31.35 27.27	-23.45 12.23 32.67 23.45	-18.92 17.37 33.00 18.92	-13.81 21.98 32.33 13.81	-8.28 25.92 32.33 8.28	-2.50 29.08 30.26 2.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDLEN SO WBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO YBADJ	2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX	12.10 12.10 12.10 12.10 12.10 30.25 60.49 61.07 30.25 60.49 61.07 52.72 47.76 57.00 52.72 47.76 -60.83 -40.17 -1.90 3.82 -12.55 -45.86 -31.35 -27.27 3.36 31.35 -27.27	12.10 12.10 12.10 12.10 12.10 31.80 61.17 60.09 31.80 61.7 60.09 57.50 46.57 53.68 57.50 46.57 53.68 -0.92 3.58 -15.01 -12.23 -32.67 -23.45	12.10 12.10 12.10 12.10 12.10 40.39 60.00 57.27 40.39 60.00 57.27 60.20 39.00 57.96 -60.36 -22.00 0.10 0.16 -17.00 -58.06 -17.37 -33.00 -18.92 17.37 33.00 18.92	12.10 12.10 12.10 12.10 12.10 47.76 57.00 52.72 47.76 57.00 52.72 61.07 30.25 60.49 -57.81 -11.77 1.11 -3.27 -18.48 -61.59 -21.98 -32.33 -13.81 21.98 32.33 13.81	12.10 12.10 12.10 12.10 12.10 53.68 57.50 46.57 53.68 57.50 46.57 60.09 31.80 61.17 -3.67 2.09 -6.59 -28.13 -63.26 -25.92 -32.33 -8.28 25.92 32.33 8.28	12.10 12.10 12.10 12.10 12.10 57.96 60.20 39.00 57.27 40.39 60.00 -47.55 -2.83 3.00 -9.72 -37.56 -63.00 -29.08 -30.26 -2.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDLEN SO XBADJ SO XBADJ SO XBADJ	3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX	12.10 12.10 12.10 12.10 12.10 30.25 60.49 61.07 57.00 52.72 47.76 -60.83 -40.17 -1.90 3.82	12.10 12.10 12.10 12.10 12.10 31.80 61.17 60.09 57.50 46.57 53.68 -61.09 -31.56 -0.92 3.58	12.10 12.10 12.10 12.10 12.10 40.39 60.00 57.27 40.39 60.00 57.27 60.20 39.00 57.96 60.20 39.00 57.96 60.20	12.10 12.10 12.10 12.10 12.10 47.76 57.00 52.72 47.76 57.00 52.72 61.07 30.25 60.49 -57.81 -11.77 1.11 -3.27	12.10 12.10 12.10 12.10 12.10 53.68 57.50 46.57 60.09 31.80 61.17 -53.49 -3.67 2.09 -6.59	12.10 12.10 12.10 12.10 12.10 57.96 60.20 39.00 57.27 40.39 60.00 57.27 40.39 60.00 -47.55 -2.83 3.00 -9.72



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SO XBADJ
            3RX
                      -12.55 -15.01 -17.00 -18.48 -28.13 -37.56
                                     -58.06 -61.59
                      -45.86 -52.76
SO XBADI
            3RX
                                                     -63.26
                                                             -63.00
                                     -17.37
SO YBADJ
            3RX
                      -3.36
                             -12.23
                                             -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
                               32.67
                                       33.00
SO YBADJ
            3RX
                       31.35
                                               32.33
                                                       32.33
                                                               30.26
SO YBADJ
            3RX
                       27.27
                              23.45
                                      18.92
                                               13.81
                                                        8.28
                                                                2.50
SO BUILDHGT 789RX
SO BUILDHGT 789RX
                        12.10
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SO BUILDHGT 789RX
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SO BUILDHGT 789RX
SO BUILDHGT 789RX
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SO BUILDHGT 789RX
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SO BUILDWID 789RX
                         56.31
                                 56.90
                                        58.61
                                                 60.06
                                                         59.69
                                                                 57.51
SO BUILDWID 789RX
SO BUILDWID 789RX
                                 48.02
                                         41.00
                         53.58
                                                 32.74
                                                         31.71
                                                                 39.76
                         46.60
                                                                 57.00
                                 52.02
                                         55.86
                                                 58.01
                                                         58.39
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
                                                         52.02
                                                 46.60
                                                                 55.86
SO BUILDLEN 789RX
                         58.01
                                 58.39
                                         57.00
                                                 56.31
                                                         56.90
                                                                 58.61
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                        60.06
                                         57.51
                                                 53.58
                                 59.69
                                                         48.02
                                                                 41.00
                                         39.76
                                                 46.60
                                 31.71
                                                         52.02
                                                                 55.86
                        58.01
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                                        57.00
57.51
                                                         56.90
                                 58.39
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                        60.06
                                 59.69
                                                 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
            789RX
                       -25.63 -26.49
                                        -26.55
                                                -25.80
                                                        -24.27
SO XBADJ
                                                                -22.00
                                       -26.39
-32.00
                       -19.06 -22.22
SO XBADJ
            789RX
                                                -29.76
                                                       -32.23
                                                                -33.71
                       -34.17 -33.60
            789RX
                                               -31.86
                                                        -33.75
SO XBADJ
                                                               -34.61
            789RX
SO XBADJ
                       -34.43 -33.20
                                       -30.95
                                                       -23.75
                                                -27.77
                                                                -19.00
                        -3.71
                                -5.30
SO YBADJ
            789RX
                                        -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
                                 -0.26
SO YBADJ
            789RX
                         0.98
                                        -1.50
                                                 -2.69
                                                         -6.37
                                                                 -6.51
           789RX
                         -6.46
                                        -5.78
                                                         -4.40
SO YBADJ
                                -6.22
                                                -5.17
                                                                 -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
***************
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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
**********************
** Triton Source Groups
** Triton Point Source Groups
SO SRCGROUP TE10813 E10813
SO SRCGROUP T_L_A11 L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
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 T8361 T8363 T8364 T8373 T8380

SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THE THE
SO SRCGROUP TRE TRE
SO SRCGROUP TENC TENC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THE TRE TENC
** 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 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THE TRE TENC
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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 T9614 T9615 T9616 T9617 T9619 T9622 T9624 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 0A_POINT 19812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP 0A_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 T9614 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 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 T9627 T9629 T9635 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 T8313 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 WVDAO - Monitoring Event 2 \*\* 2022 Event 2 Emissions \*\* 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 2300 POINT 432192.7629 4248376.801 181.62 LOCATION 230HH POINT 432172.9967 4248384.18 181.56 SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia SrCID PTEMTS STRINGT STRUMP STRVET STRUMA (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 2300 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 SO BUILDHGT 230HH 25.90 7.00 0.00 0.00 0.00 25.90 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 28.00 0.00 26.65 27.75 27.40 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 27.40 26.65 27.75 28.00 0.00 0.00 SO BUILDWID 230HH 0.00 0.00 0.00 0.00 0.00 0.00 SO BUILDLEN 230HH 0.00 0.00 0.00 39.34 30.33 30.88 SO BUILDLEN 230HH 30.50 29.19 27.00 23.99 0.00 0.00 0.00 0.00 SO BUILDLEN 230HH 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 27.00 0.00 23.99 29.19 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 0.00 0.00 0.00 0.00 SO XBADJ 230HH 0.00 0.00 SO XBADJ 230HH -51.38 -51.44 -51.61 -58.08 -59.77 -52.20 -57.69 230HH -59.64-54.00 SO XBADJ 0.00 0.00 -48.66230HH 0.00 SO XBADJ 0.00 0.00 0.00 0.00 0.00 230HH SO YBADJ -24.390.00 0.00 0.00 -11.48-3.80SO 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 230HH 13.99 8.06 1.20 11.48 SO YBADJ -6.273.80 230HH -4.00 -19.00-25.740.00 SO YBADJ -11.680.00 SO YBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00 25.90 SO BUILDHGT 2300 25.90 25.90 25.90 25.90 25.90

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



	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT BUILDHGT		25.90 25.90	25.90 25.90	25.90 25.90	25.90 25.90	25.90 25.90	25.90 25.90
50	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
50	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
50	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.75
50	BUILDWID		26.65	27.75	28.00	27.40	25.97	26.49
so	BUILDWID		28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.75
	BUILDWID		26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID		28.85	30.33	30.88	30.50	29.19	27.00
	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
50	BUILDLEN	230L	30.50	29.19	27.00	23.99	20.24	15.88
50	BUILDLEN		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
	BUILDLEN		18.76	22.09	24.75	26.65	27.75	28.00
	XBADJ	230L	-1.68	0.69	1.23	0.89	0.52	0.13
	XBADJ	230L	-0.26	-0.64	-1.00	-1.33	-1.62	-1.87
	XBADJ	230L	-6.23	-10.67	-14.78	-18.45	-21.55	-24.00
	XBADJ	230L	-25.72	-26.66	-27.72	-29.74	-30.84	-31.02
	XBADJ	230L	-30.25	-28.56	-26.00	-22.65	-18.62	-14.02
	XBADJ	230L	-12.53	-11.42	-9.96	-8.21	-6.20	-4.00
	YBADJ	230L	-10.66	-8.50	-6.08	-3.15	-0.37	2.41
	YBADJ	230L	5.12	7.68 15.68	10.00 15.58	12.02 15.00	13.67	14.48 12.50
	YBADJ YBADJ	230L 230L	15.31 10.66	8.50	6.08	3.15	13.96 0.37	-2.41
	YBADJ	230L	-5.12	-7.68	-10.00	-12.02	-13.67	-2.41 -14.48
	YBADJ	230L	-15.31	-15.68	-15.58	-15.00	-13.96	-12.50
30	TBADJ	230L	-13.31	-13.00	-13.36	-13.00	-13.90	-12.30
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID		26.65	27.75 30.33	28.00	27.40	25.97	26.49
S0 S0	BUILDWID BUILDWID		28.85 23.99	20.24	30.88 15.88	30.50 18.76	29.19 22.09	27.00 24.75
50	BUILDWID		26.65	27.75	28.00	27.40	25.97	26.49
50	BUILDWID		28.85	30.33	30.88	30.50	29.19	27.00
	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
	BUILDLEN		30.50	29.19	27.00	23.99	20.24	15.88
	BUILDLEN		18.76	22.09	24.75	26.65	27.75	28.00
	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN		30.50	29.19	27.00	23.99	20.24	15.88
	BUILDLEN		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
	XBADJ	230M	-20.77	-17.14	-13.00	-8.46	-3.67	1.24
	XBADJ	230M	2.57	3.06	3.46	3.76	3.94	4.00
	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



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SO YBADJ
             230M
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SO YBADJ
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**
   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
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SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia



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SRCPARAM EODISTFL 4.6855E-03 27.432 866.4833333 8.6868 0.100584
     Fugitive Sources
** Railcar Unloading
** Srcid Srctyp Xs Ys Zs
   LOCATION Rail 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 230L 230L
SRCGROUP 230C 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
```



## February Monitoring Event AERMOD Source Input: South Charleston

```
**Ethylene oxide - South Charleston, WV Monitoring Event #2 (Feb 15-16, 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 O 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 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 0.10640061 0.2032 SO SRCPARAM T9555 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 19646 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM 19734 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM 19734 1.6952E-06 5.4864 0 0.59833059 0.1524
SO SRCPARAM 19736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM 19738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM 19749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM 19749 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 LOCITT1 POINT 439641.71 4247081.619 184.31
SO LOCATION LOO1TT2 POINT 439662.8977 4247076.134 184.44
 SO LOCATION LOOITT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION LOO1TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION LOOITT5 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 L001TT2 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 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 OALIBI 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 LOO3 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 440095.39// 424/190.534 181.8/
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 4247212.397 181.92

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 440084.97/9 4247222.214 181.85
SO LOCATION T8391 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8392 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440098.5967 4247225.066 181.79
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 18331 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18343 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18343 1.1606E-05 15.5448 0 0.101601144 0.201168 SO SRCPARAM 18344 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18360 1.1606E-05 5.7404 0 0.406404575 0.100584 SO SRCPARAM 18361 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 THE 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 TENC 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 E003 Fugitives - CE003F
** 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 CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 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
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SO BUILDHGT 1RX
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                                      12.10
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SO BUILDHGT 1RX
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                                      12.10
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                                                           12.10
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SO BUILDHGT 1RX
SO BUILDHGT 1RX
                            12.10
12.10
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                                      12.10
                                                12.10
                                                          12.10
                                                                    12.10
                                                                              12.10
SO BUILDHGT 1RX
SO BUILDWID 1RX
                            12.10
30.25
                                                                              12.10
                                      12.10
                                                12.10
                                                          12.10
                                                                    12.10
                                                40.39
                                                           47.76
                                      31.80
                                                                     53.68
                                                                               57.96
                            60.49
SO BUILDWID 1RX
                                      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
SO BUILDWID 1RX
                             60.49
                                                           57.00
                                      61.17
                                                 60.00
SO BUILDWID 1RX
                            61.07
                                                 57.27
                                                                     46.57
                                      60.09
                                                           52.72
                             57.00
SO BUILDLEN 1RX
                                                           61.07
                                                                    60.09
                                      57.50
                                                60.20
                                                                               57.27
SO BUILDLEN 1RX
                                                 39.00
                            52.72
                                      46.57
                                                           30.25
                                                                     31.80
                                                                               40.39
                            47.76
                                                 57.96
                                                           60.49
                                                                              60.00
SO BUILDLEN 1RX
                                      53.68
                                                                    61.17
                                      57.50
                                                60.20
SO BUILDLEN 1RX
                            57.00
                                                           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
                                                  0.10
                           -1.90
                                     -0.92
                                                                    2.09
SO XBADJ
               1RX
                                                          1.11
                                                                              3.00
                                                                              -9.72
SO XBADJ
                             3.82
                                                                    -6.59
               1<sub>RX</sub>
                                        3.58
                                                  0.16
                                                          -3.27
                                                                   -28.13
SO XBADJ
               1RX
                           -12.55
                                    -15.01
                                              -17.00 -18.48
                                                                            -37.56
SO XBADJ
               1RX
                           -45.86
                                    -52.76 -58.06 -61.59
                                                                   -63.26 -63.00
                                    -12.23 -17.37 -21.98
SO YBADJ
               1RX
                            -3.36
                                                                  -25.92
                                                                            -29.08
```



SO YBADJ SO YBADJ SO YBADJ SO YBADJ SO YBADJ	1RX 1RX 1RX 1RX 1RX	-31.35 -27.27 3.36 31.35 27.27	-32.67 -23.45 12.23 32.67 23.45	-33.00 -18.92 17.37 33.00 18.92	-32.33 -13.81 21.98 32.33 13.81	-32.33 -8.28 25.92 32.33 8.28	-30.26 -2.50 29.08 30.26 2.50
SO BUILDHGT		12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10
SO BUILDHGT SO BUILDHGT		12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10
SO BUILDHGT	2RX 2RX	12.10 12.10	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	12.10 $12.10$	12.10 12.10
SO BUILDWID SO BUILDWID		30.25 60.49	31.80 61.17	40.39 60.00	47.76 57.00	53.68 57.50	57.96 60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID		30.25 60.49	31.80 61.17	40.39 60.00	47.76 57.00	53.68 57.50	57.96 60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN SO BUILDLEN		57.00 52.72	57.50 46.57	60.20 39.00	61.07 30.25	60.09 31.80	57.27 40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN		57.00 52.72	57.50 46.57	60.20 39.00	61.07 30.25	60.09 31.80	57.27 40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ SO XBADJ	2RX 2RX	-60.83 -40.17	-61.09 -31.56	-60.36 -22.00	-57.81 -11.77	-53.49 -3.67	-47.55 -2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ SO XBADJ	2RX 2RX	3.82 -12.55	3.58 -15.01	0.16 -17.00	-3.27 -18.48	-6.59 -28.13	-9.72 -37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ SO YBADJ	2RX 2RX	-3.36 -31.35	-12.23 -32.67	-17.37 -33.00	-21.98 -32.33	-25.92 -32.33	-29.08 -30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ SO YBADJ	2RX 2RX	3.36 31.35	12.23 32.67	17.37 33.00	21.98 32.33	25.92 32.33	29.08 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 3RX	12.10 12.10	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	$12.10 \\ 12.10$	12.10 $12.10$
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX 3RX	12.10 $12.10$	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	$12.10 \\ 12.10$	12.10 $12.10$
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX 3RX	60.49 61.07	61.17 60.09	60.00 57.27	57.00 52.72	57.50 46.57	60.20 39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX 3RX	60.49 61.07	61.17 60.09	60.00 57.27	57.00 52.72	57.50 46.57	60.20 39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX 3RX	52.72 47.76	46.57 53.68	39.00 57.96	30.25 60.49	$31.80 \\ 61.17$	40.39 60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN SO BUILDLEN	3RX 3RX	52.72 47.76	46.57 53.68	39.00 57.96	30.25 60.49	31.80 61.17	40.39 60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ SO XBADJ	3RX 3RX	-40.17 -1.90	-31.56 -0.92	-22.00 0.10	-11.77 $1.11$	-3.67 2.09	-2.83 3.00
-0 //2/100			0.52	0.10			5.00



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SO XBADJ
            3RX
                       3.82
                                3.58
                                      0.16 - 3.27
                                                      -6.59
                                                              -9.72
                                                      -28.13
                             -15.01
                                     -17.00 -18.48
                                                              -37.56
SO XBADI
            3RX
                      -12.55
            3RX
SO XBADJ
                      -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
            3RX
                               12.23
                                       17.37
                                               21.98
                                                       25.92
                                                               29.08
SO YBADJ
                        3.36
                                       33.00
SO YBADJ
            3RX
                       31.35
                               32.67
                                               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
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SO BUILDHGT 789RX
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SO BUILDHGT 789RX
SO BUILDHGT 789RX
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SO BUILDHGT 789RX
SO BUILDHGT 789RX
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                                                         12.10
                                                                 12.10
SO BUILDWID 789RX
SO BUILDWID 789RX
                                 56.90
                         56.31
                                         58.61
                                                 60.06
                                                         59.69
                                                                 57.51
                         53.58
                                         41.00
                                 48.02
                                                 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
                                                 58.01
                                                                  57.00
                                 52.02
                                         55.86
                                                         58.39
                                 31.71
SO BUILDLEN 789RX
                         32.74
                                         39.76
                                                 46.60
                                                         52.02
                                                                 55.86
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                                         57.00
57.51
                         58.01
                                                         56.90
                                 58.39
                                                                 58.61
                                                 56.31
                         60.06
                                 59.69
                                                         48.02
                                                                 41.00
                                                 53.58
SO BUILDLEN 789RX
                         32.74
                                         39.76
                                                                 55.86
                                 31.71
                                                 46.60
                                                         52.02
SO BUILDLEN 789RX
                         58.01
                                         57.00
                                 58.39
                                                 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
                                                        -19.79
                                                                -22.15
                                                -16.84
            789RX
                        -23.83 -24.79
                                        -25.00
                                                -24.45
SO XBADJ
                                                        -23.15
                                                                -23.99
SO XBADJ
            789RX
                       -25.63 -26.49
                                        -26.55
                                                -25.80
                                                        -24.27
                                                                -22.00
                       -19.06 -22.22
            789RX
                                        -26.39
                                                -29.76
                                                        -32.23
SO XBADJ
                                                                -33.71
            789RX
SO XBADJ
                        -34.17
                                -33.60
                                        -32.00
                                                -31.86
                                                        -33.75
                                                                -34.61
                        -34.43 -33.20
                                        -30.95
SO XBADJ
            789RX
                                                -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
            789RX
                         6.46
                                  6.22
                                          5.78
                                                  5.17
                                                          4.40
                                                                  3.50
SO YBADJ
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
                                         -5.78
                         -6.46
SO YBADJ
            789RX
                                                         -4.40
                                 -6.22
                                                 -5.17
                                                                 -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_A11 L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
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 T8361 T8363 T8364 T8373 T8380

SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THE THE
SO SRCGROUP TRE TRE
SO SRCGROUP TENC TENC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THE TRE TENC
** 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 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THE TRE TENC
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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 T9614 T9615 T9616 T9617 T9619 T9622 T9624 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 0A_POINT 19812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP 0A_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 T9614 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 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 T9627 T9629 T9635 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 T8313 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
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## March Monitoring Event AERMOD Source Input: Institute WVDAO - Monitoring Event 3 \*\* 2022 Event 3 Emissions \*\* 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 2300 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 2300 2.7543E-03 27.432 318.15 2.618232 0.200406 SRCPARAM 230HH 0 0.9144 0 4.572 0.01905 \*\* BPIP Parameters 25.90 25.90 SO BUILDHGT 230HH 7.00 0.00 0.00 0.00 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 0.00 0.00 22.09 48.55 0.00 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 30.50 SO BUILDLEN 230HH 29.19 27.00 23.99 0.00 0.00 0.00 SO BUILDLEN 230HH 0.00 0.00 0.00 0.00 0.00 SO BUILDLEN 230HH 30.88 30.99 30.16 30.38 32.18 30.33 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 29.13 0.00 SO XBADJ 230HH 28.50 27.00 24.68 0.00 SO XBADJ 230HH 0.00 0.00 0.00 0.00 0.00 0.00 230HH -51.38 -51.61 -58.08 SO XBADJ -52.20-51.44-59.77-54.00 230HH 0.00 SO XBADJ -59.64 -57.69 -48.660.00 230HH 0.00 SO XBADJ 0.00 0.00 0.00 0.00 0.00 SO YBADJ 230HH -24.39 0.00 0.00 0.00 -11.48-3.8050 YBADJ 230HH 4.00 11.68 19.00 25.74 0.00 0.00 230HH 0.00 0.00 0.00 0.00 0.00 SO YBADJ 0.00 SO YBADJ 230HH 13.99 8.06 1.20 -6.2711.48 3.80 0.00 SO YBADJ 230HH -4.00 -11.68-19.00-25.740.00 0.00 0.00 230HH 0.00 0.00 0.00 0.00 SO YBADJ

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SO BUILDHGT 2300



	BUILDHGT		25.90	25.90	0.00	0.00	0.00	0.00
SO	BUILDHGT		0.00	0.00	7.00	7.00	25.90	25.90
SO	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT		25.90	25.90	0.00	0.00	0.00	0.00
SO	BUILDHGT		0.00	0.00	7.00	7.00	25.90	25.90
SO	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.28
50	BUILDWID		24.28	24.28	0.00	0.00	0.00	0.00
50	BUILDWID		0.00	0.00	34.85	34.60	24.28	24.28
SO	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.28
so			24.28	24.28	0.00	0.00	0.00	0.00
SO	BUILDWID		0.00	0.00	45.30	48.35	24.28	24.28
SO	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
SO			30.50	29.19	0.00	0.00	0.00	0.00
SO	BUILDLEN		0.00	0.00	29.21	31.10	27.75	28.00
SO			27.40	25.97	26.49	28.85	30.33	30.88
	BUILDLEN		30.50	29.19	0.00	0.00	0.00	0.00
	BUILDLEN		0.00	0.00	49.61	49.21	27.75	28.00
	XBADJ	2300	16.45	19.40	19.95	19.05	17.58	15.56
	XBADJ	2300	13.08	10.19	0.00	0.00	0.00	0.00
	XBADJ	2300	0.00	0.00	-50.36	-54.25	-36.90	-41.00
	XBADJ	2300	-43.85	-45.37	-46.44	-47.90	-47.90	-46.44
	XBADJ	2300	-43.58	-39.39	0.00	0.00	0.00	0.00
SO	XBADJ	2300	0.00	0.00	0.76	5.03	9.16	13.00
SO	YBADJ	2300	-15.59	-10.20	-4.50	1.65	7.51	13.13
SO	YBADJ	2300	18.36	23.03	0.00	0.00	0.00	0.00
SO	YBADJ	2300	0.00	0.00	18.57	12.53	24.79	20.50
50	YBADJ	2300	15.59	10.20	4.50	-1.65	-7.51	-13.13
50	YBADJ	2300	-18.36	-23.03	0.00	0.00	0.00	0.00
50	YBADJ	2300	0.00	0.00	-23.79	-19.40	-24.79	-20.50
	DUTI DUCT	2201	25.00	25 00	25.00	25.00	25 00	25 00
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO			25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
50	BUILDHGT		25.90	25.90	25.90	25.90	25.90	25.90
50	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.75
50			26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID		28.85	30.33	30.88	30.50	29.19	27.00
50	BUILDWID		23.99	20.24	15.88	18.76	22.09	24.75
SO	BUILDWID		26.65	27.75	28.00	27.40	25.97	26.49
SO	BUILDWID		28.85	30.33	30.88	30.50	29.19	27.00
SO	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
SO	BUILDLEN		30.50	29.19	27.00	23.99	20.24	15.88
SO			18.76	22.09	24.75	26.65	27.75	28.00
	BUILDLEN		27.40	25.97	26.49	28.85	30.33	30.88
	BUILDLEN		30.50	29.19	27.00	23.99	20.24	15.88
50	BUILDLEN		18.76	22.09	24.75	26.65	27.75	28.00
	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
	XBADJ	230K	-1.27	-7.18	-12.88	-18.19	-22.94	-27.00
	XBADJ	230K	-30.24	-32.55	-34.82	-37.82	-39.67	-40.31
	XBADJ	230K	-39.73	-37.94	-35.00	-31.00	-26.05	-20.31
	XBADJ	230K	-17.50	-14.91	-11.87	-8.46	-4.81	-1.00
	YBADJ	230K	-19.00	-15.93	-12.37	-8.11	-3.86	0.51
	YBADJ	230K	4.86	9.07	13.00	16.54	19.57	21.58
	YBADJ	230K	23.40	24.50	24.87	24.48	23.34	21.50
50	YBADJ	230K	19.00	15.93 -9.07	12.37 -13.00	8.11 -16.54	3.86 -19.57	-0.51 -21.58
	YBADJ	230K	-4.86					



SO YBADJ	230К	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDLEN SO KBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO YBADJ	230L 230L 230L 230L 230L 230L 230L 230L	25.90 25.90 25.90 25.90 25.90 23.99 26.65 28.85 27.40 30.50 18.76 27.40 30.50 18.76 -1.68 -0.26 -6.23 -25.72 -10.66 5.12 10.66 5.12 11.066 -5.12 15.31	25.90 25.90 25.90 25.90 25.90 25.90 27.75 30.33 20.24 27.75 30.33 25.97 29.19 22.09 0.69 -0.64 -10.67 -26.66 -28.56 -11.42 -8.50 7.68 8.50 7.68 8.50	25.90 25.90 25.90 25.90 25.90 25.90 15.88 28.00 30.88 15.88 26.49 27.00 24.75 26.49 27.00 24.75 1.23 -1.00 -14.78 -27.72 -26.00 -9.96 -6.08 10.00 15.58 6.08 10.00 -15.58	25.90 25.90 25.90 25.90 25.90 25.90 18.76 27.40 30.50 18.76 27.40 30.50 28.85 23.99 26.65 28.85 23.99 26.65 -1.33 -18.45 -29.74 -22.65 -8.21 -3.15 12.02 15.00 3.15	25.90 25.90 25.90 25.90 25.90 25.97 29.19 22.09 25.97 29.19 30.33 20.24 27.75 30.33 20.24 27.75 -1.62 -21.55 -30.84 -18.62 -0.37 13.67 13.96 0.37	25.90 25.90 25.90 25.90 25.90 24.75 26.49 27.00 30.88 15.88 28.00 30.88 15.88 28.00 -1.87 -24.00 -31.02 -4.00 2.41 14.48 12.50 -2.41 14.48 12.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDLEN SO KBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ	230M 230M 230M 230M 230M 230M 230M 230M	25.90 25.90 25.90 25.90 25.90 23.99 26.65 28.85 23.99 26.65 28.85 27.40 30.50 18.76 27.40 30.50 18.76 27.40 30.50 18.76 27.40 30.50	25.90 25.90 25.90 25.90 25.90 25.90 20.24 27.75 30.33 20.24 27.75 30.33 25.97 29.19 22.09 3.76 -12.05 -25.16 -29.73 -17.14 3.06 6.46	25.90 25.90 25.90 25.90 25.90 25.90 30.88 15.88 28.00 30.88 26.49 27.00 24.75 26.49 27.00 24.75 1.66 -14.00 -28.21 -28.15 -13.00 3.46 9.18	25.90 25.90 25.90 25.90 25.90 25.90 25.90 28.76 27.40 30.50 28.85 23.99 26.65 28.85 23.99 26.65 28.85 23.99 26.65 28.85 23.99 26.65 28.85 23.99	25.90 25.90 25.90 25.90 25.90 25.97 29.19 22.09 25.97 29.19 30.33 20.24 27.75 -4.30 -16.58 -31.69 -26.03 -3.67 3.94 14.11	25.90 25.90 25.90 25.90 25.90 25.90 24.75 26.49 27.00 30.88 15.88 28.00 -7.12 -17.12 -32.00 -23.76 4.00 15.84



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**
   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
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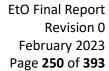
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6



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** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
    SRCPARAM EDDISTFL 5.1856E-03 27.432 866.4833333 8.6868 0.100584
    Fugitive Sources
      Railcar Unloading
     Srcid Srctyp Xs Ys Zs
    LOCATION Rail 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 Raill 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 230S 230K
SRCGROUP 230C 230C
SRCGROUP 230H 230HH
SRCGROUP POINT 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 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
```



## March Monitoring Event AERMOD Source Input: South Charleston \*\*Ethylene oxide - South Charleston, WV Monitoring Event #3 (Mar 23-24, 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 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 19613 POINT 439661.5443 4247134.804 165.25
SO LOCATION 19616 POINT 439666.5424 4247084.54 184.3
SO LOCATION 19617 POINT 439717.7941 4247104.02 184.24
SO LOCATION 19619 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 439681.9445 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 19646 POINT 439788.6277 4247040.601 184.21 SO LOCATION 19649 POINT 439780.6377 4247049.731 184.31 SO LOCATION 19734 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 19815 POINT 439696.1627 4247131.924 183.06
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 T9233 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 T9619 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 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 0.59833059 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 0.18597655 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 LOOITT1 POINT 439641.71 4247081.619 184.31
SO LOCATION LOO1TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION LOOITT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION LOOITT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION LOOITT5 POINT 439694.4766 4247070.017 184.47
SO LOCATION LOCATION 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
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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 18314 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 440079.3443 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 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 T8334 1.1606E-05 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8344 1.1606E-05 15.5448 0 0.101601144 0.201168
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 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8364 0 15.5448 0 0.101601144 0.201168
SO SRCPARAM T8368 1.1606E-05 15.5448 0 0.107029833 0.1524
SO SRCPARAM T8369 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 10.668 0 1.53139994 0.051816
SO SRCPARAM T8383 1.1606E-05 8.634984 0 0.406404575 0.100584
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 TENC 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 EOO3 Fugitives - CEOO3F
** Srcid Srctyp Xs Ys Zs
SO LOCATION CE003F1 VOLUME 439941 4247253 181.825
SO LOCATION CEO03F2 VOLUME 439935 4247225 181.825
    Srcid Vlemis Relhgt Syint Szint
SO SRCPARAM CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512
SO SRCPARAM CE003F2 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
                                                    12.10
SO BUILDHGT 1RX
                         12.10
                                  12.10
                                           12.10
                                                             12.10
                                                                      12.10
SO BUILDHGT 1RX
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SO BUILDWID 1RX
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                         60.49
SO BUILDWID 1RX
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                                  61.17
                                                                      60.20
SO BUILDWID 1RX
                         61.07
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                                           57.27
                                                    52.72
                                                             46.57
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SO BUILDWID 1RX
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SO BUILDWID 1RX
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SO BUILDWID 1RX
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SO BUILDLEN 1RX
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SO BUILDLEN 1RX
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SO XBADJ
             1RX
                        -60.83
                                 -61.09
                                          -60.36
                                                   -57.81
                                                            -53.49
                                                                     -2.83
SO XBADJ
             1RX
                        -40.17
                                 -31.56
                                          -22.00
                                                   -11.77
                                                            -3.67
SO XBADJ
             1RX
                         -1.90
                                  -0.92
                                            0.10
                                                     1.11
                                                              2.09
                                                                       3.00
                                            0.16
                          3.82
                                   3.58
                                                    -3.27
                                                                      -9.72
SO XBADI
             1RX
                                                             -6.59
                                                  -18.48
                                                                    -37.56
                        -12.55
                                                           -28.13
SO XBADJ
                                -15.01
                                         -17.00
             1<sub>RX</sub>
SO XBADJ
             1RX
                        -45.86
                                -52.76
                                         -58.06
                                                  -61.59
                                                           -63.26
                                                                    -63.00
                                                  -21.98
SO YBADJ
             1RX
                         -3.36 -12.23 -17.37
                                                           -25.92 -29.08
                                -32.67
                                         -33.00 -32.33
                                                           -32.33 -30.26
SO YBADJ
             1RX
                        -31.35
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SO YBADJ SO YBADJ SO YBADJ SO YBADJ	1RX 1RX 1RX 1RX	-27.27 3.36 31.35 27.27	-23.45 12.23 32.67 23.45	-18.92 17.37 33.00 18.92	-13.81 21.98 32.33 13.81	-8.28 25.92 32.33 8.28	-2.50 29.08 30.26 2.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDWID SO BUILDLEN SO WBADJ SO XBADJ SO XBADJ SO XBADJ SO YBADJ	2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX 2RX	12.10 12.10 12.10 12.10 12.10 30.25 60.49 61.07 30.25 60.49 61.07 52.72 47.76 57.00 52.72 47.76 -60.83 -40.17 -1.90 -3.82 -12.55 -45.86 -3.36 -3.36 -3.35 -27.27 3.36 31.35 -27.27	12.10 12.10 12.10 12.10 12.10 31.80 61.17 60.09 31.80 61.57 53.68 57.50 46.57 53.68 -61.09 -31.56 -0.92 3.58 -15.01 -52.76 -12.23 -32.67 -23.45	12.10 12.10 12.10 12.10 12.10 40.39 60.00 57.27 40.39 60.00 57.27 60.20 39.00 57.96 60.20 39.00 57.96 -60.36 -22.00 0.10 -17.00 -58.06 -17.37 -33.00 -18.92 17.37 33.00 18.92	12.10 12.10 12.10 12.10 12.10 47.76 57.00 52.72 47.76 57.00 52.72 61.07 30.25 60.49 -57.81 -11.77 1.11 -3.27 -18.48 -61.59 -21.98 -32.33 -13.81 21.98 32.33 13.81	12.10 12.10 12.10 12.10 12.10 53.68 57.50 46.57 53.68 57.50 46.57 60.09 31.80 61.17 -53.49 -3.67 2.09 -28.13 -63.26 -25.92 -32.33 -8.28 25.92 32.33 8.28	12.10 12.10 12.10 12.10 12.10 57.96 60.20 39.00 57.96 60.20 39.00 57.27 40.39 60.00 -47.55 -2.83 3.00 -9.72 -37.56 -63.00 -29.08 -30.26 2.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDLEN SO XBADJ SO XBADJ SO XBADJ	3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX 3RX	12.10 12.10 12.10 12.10 12.10 30.25 60.49 61.07 57.00 52.72 47.76 57.00 52.72 47.76 -60.83 -40.17 -1.90 3.82	12.10 12.10 12.10 12.10 12.10 31.80 61.17 60.09 57.50 46.57 53.68 57.50 46.57 53.68 -61.09 -31.56 -0.92 3.58	12.10 12.10 12.10 12.10 12.10 40.39 60.00 57.27 40.39 60.00 57.27 60.20 39.00 57.96 60.20 39.00 57.96 60.36 -22.00 0.10	12.10 12.10 12.10 12.10 12.10 47.76 57.00 52.72 47.76 57.00 52.72 61.07 30.25 60.49 61.07 30.25 60.49 -57.81 -11.77 1.11	12.10 12.10 12.10 12.10 12.10 53.68 57.50 46.57 60.09 31.80 61.17 60.09 31.80 61.17 -53.49 -3.67 2.09 -6.59	12.10 12.10 12.10 12.10 12.10 57.96 60.20 39.00 57.96 60.20 39.00 57.27 40.39 60.00 57.27 40.39 60.00 -47.55 -2.83 3.00 -9.72



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SO XBADJ
            3RX
                      -12.55 -15.01 -17.00 -18.48 -28.13 -37.56
                                     -58.06 -61.59
                      -45.86 -52.76
SO XBADI
            3RX
                                                             -63.00
                                                     -63.26
                                     -17.37
SO YBADJ
            3RX
                      -3.36
                             -12.23
                                             -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
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                                              21.98
                                                       25.92
                                                               29.08
                               32.67
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SO YBADJ
            3RX
                       31.35
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SO YBADJ
            3RX
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SO BUILDHGT 789RX
SO BUILDHGT 789RX
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SO BUILDHGT 789RX
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SO BUILDWID 789RX
                        56.31
                                 56.90
                                        58.61
                                                 60.06
                                                         59.69
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SO BUILDWID 789RX
SO BUILDWID 789RX
                                 48.02
                                         41.00
                        53.58
                                                 32.74
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                                                                 39.76
                        46.60
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                                         55.86
                                                 58.01
                                                         58.39
SO BUILDWID 789RX
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                                                 60.06
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SO BUILDWID 789RX
                        53.58
                                 48.02
                                         41.00
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                                                                 39.76
SO BUILDWID 789RX
                        46.60
                                 52.02
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                                                                 57.00
SO BUILDLEN 789RX
                        32.74
                                 31.71
                                         39.76
                                                         52.02
                                                 46.60
                                                                 55.86
SO BUILDLEN 789RX
                        58.01
                                 58.39
                                         57.00
                                                 56.31
                                                         56.90
                                                                 58.61
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                        60.06
                                         57.51
                                                 53.58
                                 59.69
                                                         48.02
                                                                 41.00
                                         39.76
                                                 46.60
                                 31.71
                                                         52.02
                                                                 55.86
                        58.01
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                                        57.00
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                                 58.39
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                        60.06
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                                                 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
            789RX
                       -25.63 -26.49
                                        -26.55
                                                -25.80
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SO XBADJ
                                                                -22.00
                                       -26.39
-32.00
                       -19.06 -22.22
SO XBADJ
            789RX
                                                -29.76
                                                       -32.23
                                                                -33.71
                       -34.17 -33.60
            789RX
                                               -31.86
                                                        -33.75
SO XBADJ
                                                               -34.61
            789RX
SO XBADJ
                       -34.43 -33.20
                                       -30.95
                                                       -23.75
                                                -27.77
                                                                -19.00
                        -3.71
                                -5.30
SO YBADJ
            789RX
                                        -5.31
                                                -4.40
                                                        -3.35
                                                                 -2.20
SO YBADJ
            789RX
                        -0.98
                                 0.26
                                         1.50
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                                                          6.37
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SO YBADJ
            789RX
                          6.46
                                  6.22
                                          5.78
                                                 5.17
                                                          4.40
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SO YBADJ
            789RX
                          3.71
                                 5.30
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                                 -0.26
SO YBADJ
            789RX
                         0.98
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           789RX
                        -6.46
                                        -5.78
                                                         -4.40
SO YBADJ
                                -6.22
                                                -5.17
                                                                 -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
***************
******************
** 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_A11 L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
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 T8361 T8363 T8364 T8373 T8380

SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THE THE
SO SRCGROUP TRE TRE
SO SRCGROUP TENC TENC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THE TRE TENC
** 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 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THE TRE TENC
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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 T9614 T9615 T9616 T9617 T9619 T9622 T9624 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 0A_POINT 19812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP 0A_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 T9614 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 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 T9627 T9629 T9635 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

```
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 )
** Polvox - 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 2300 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 2300 0 27.432 318.15 2.618232 0.200406
   SRCPARAM 230HH 0 0.9144 0 4.572 0.01905
** BPIP Parameters
                                                0.00
                                                                  25.90
                                                                            25.90
SO BUILDHGT 230HH
                            7.00
                                      0.00
                                                         0.00
SO BUILDHGT 230HH
                           25.90
                                     25.90
                                               25.90
                                                        25.90
                                                                   0.00
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SO BUILDHGT 230HH
                            0.00
                                      0.00
                                                0.00
                                                         0.00
                                                                   0.00
                                                                             0.00
SO BUILDHGT 230HH
                            7.00
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SO BUILDHGT 230HH
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SO BUILDHGT 230HH
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SO BUILDWID 230HH
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SO BUILDWID 230HH
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SO BUILDWID 230HH
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SO BUILDWID 230HH
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SO BUILDWID 230HH
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SO BUILDWID 230HH
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SO BUILDLEN 230HH
                           39.34
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SO BUILDLEN 230HH
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                                     29.19
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SO BUILDLEN 230HH
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SO BUILDLEN 230HH
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SO XBADJ
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SO XBADJ
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SO XBADJ
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SO YBADJ
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   YBADJ
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                                     11.68
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              230HH
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SO
   YBADJ
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SO YBADJ
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SO YBADJ
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SO BUILDHGT SO BUILDHGT	230K 230K 230K 230K 230K 230K 230K 230K	25.90 25.90 25.90 25.90 25.90 23.99 26.65 28.85 27.40 30.50 18.76 27.40 30.50 18.76 2.84 9.23 -1.27 -30.24 -39.73 -17.50 -19.00 4.86 23.40 19.00 -4.86	25.90 25.90 25.90 25.90 25.90 20.24 27.75 30.33 25.97 29.19 22.09 25.97 29.19 22.09 6.58 8.75 -7.18 -32.55 -37.94 -14.91 -15.93 -9.07	25.90 25.90 25.90 25.90 25.90 15.88 28.00 30.88 15.88 26.49 27.00 24.75 8.33 8.00 -12.88 -34.82 -35.00 -11.87 -12.37 -13.00	25.90 25.90 25.90 25.90 25.90 18.76 27.40 30.50 28.85 23.99 26.65 28.85 23.99 26.65 8.97 7.01 -18.19 -37.82 -31.00 -8.46 -8.11 -6.54	25.90 25.90 25.90 25.90 25.97 29.19 22.09 25.97 29.19 30.33 20.24 27.75 9.34 5.81 -2.94 -39.67 -26.05 -4.81 -3.86 19.57 23.34 3.86 -19.57	25.90 25.90 25.90 25.90 25.90 24.75 26.49 27.00 30.88 15.88 28.00 9.43 4.43 -27.00 -40.31 -1.00 0.51 21.58 21.50 -0.51 -21.58



SO YBADJ	230к	-23.40	-24.50	-24.87	-24.48	-23.34	-21.50
SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDHGT SO BUILDWID SO BUILDLEN SO WABADJ SO XBADJ SO XBADJ SO XBADJ SO XBADJ SO YBADJ	230L 230L 230L 230L 230L 230L 230L 230L	25.90 25.90 25.90 25.90 25.90 23.99 26.65 28.85 27.40 30.50 18.76 27.40 30.50 18.76 -1.68 -0.26 -6.23 -25.72 -30.25 -12.53 -10.66 5.12 15.31 10.66 -5.12 -15.31	25.90 25.90 25.90 25.90 25.90 20.24 27.75 30.33 20.24 27.75 30.33 25.97 29.19 22.09 25.97 29.19 22.09 -0.64 -10.67 -26.66 -11.42 -8.50 7.68 15.68 8.50 -7.68 -7.68 -7.68 -7.68 -7.68 -7.68 -7.68 -7.68	25.90 25.90 25.90 25.90 25.90 15.88 28.00 30.88 15.88 28.00 30.88 27.00 24.75 26.49 27.00 24.75 1.23 -1.00 -14.78 -27.72 -26.00 -9.96 -6.08 10.00 15.58 6.08 -10.00 -15.58	25.90 25.90 25.90 25.90 25.90 25.90 18.76 27.40 30.50 18.76 27.40 30.50 28.85 23.99 26.65 28.85 23.99 26.65 -1.33 -18.45 -29.74 -22.65 -8.21 -3.15 12.02 15.00 3.15	25.90 25.90 25.90 25.90 25.90 25.97 22.09 25.97 29.19 30.33 20.24 27.75 30.33 20.24 27.75 -1.62 -1.62 -0.37 13.67 13.96 0.37	25.90 25.90 25.90 25.90 25.90 24.75 26.49 27.00 24.75 26.49 27.00 30.88 15.88 28.00 30.88 15.88 28.00 -1.87 -24.00 -31.02 -14.02 -14.02 -14.02 -2.41 14.48 12.50 -2.41 -14.48 -2.50
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**
   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
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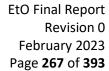
LOCATION EODISTFL POINT 431659.87 4248946.05 181.6



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** SrcID Ptemis Stkhgt Stktmp Stkvel Stkdia
    SRCPARAM EDDISTFL 4.8949E-03 27.432 866.4833333 8.6868 0.100584
    Fugitive Sources
      Railcar Unloading
     Srcid Srctyp Xs Ys Zs
    LOCATION Rail 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)
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SRCGROUP EODIST EODISTFL
SRCGROUP EODIST Raill 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 230S 230K
SRCGROUP 230C 230C
SRCGROUP 230H 230HH
SRCGROUP POINT 221A 230M 230L 230K 230O 230HH

**

** Fugitive Source Groups

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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 221A 230M 230L 230K 230O 230HH
SRCGROUP POLYOX POLYVOL1 BL8389A1 BL8389A2 BL8389B1 BL8389B2
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# 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 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 T9121 1.6952E-06 6.7036 0 0.0993792.
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 0.10640061 0.2032 SO SRCPARAM T9555 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 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 19649 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM 19734 1.6952E-06 7.62 0 0.199988629 0.1016
SO SRCPARAM 19734 1.6952E-06 5.4864 0 0.59833059 0.1524
SO SRCPARAM 19736 1.6952E-06 5.4864 0 0.579061727 0.1524
SO SRCPARAM 19738 1.6952E-06 4.8768 0 0.015507266 0.508
SO SRCPARAM 19749 1.6952E-06 7.9248 0 0.185997655 0.1524
SO SRCPARAM 19749 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 LOCITT1 POINT 439641.71 4247081.619 184.31
SO LOCATION LOO1TT2 POINT 439662.8977 4247076.134 184.44
SO LOCATION LOOITT3 POINT 439673.8979 4247075.164 184.49
SO LOCATION LOO1TT4 POINT 439683.3865 4247070.654 184.58
SO LOCATION LOOITT5 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 L001TT2 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
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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 OALIBI 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 LO03 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 440095.39// 424/190.534 181.8/
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 4247212.397 181.92

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 16363 POINT 44004.97/9 424722.57 181.77
SO LOCATION T8390 POINT 440103.0587 4247222.214 181.85
SO LOCATION T8391 POINT 440098.4404 4247223.802 181.79
SO LOCATION T8392 POINT 440098.5967 4247225.066 181.79
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 18331 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18343 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18343 1.1606E-05 15.5448 0 0.101601144 0.201168 SO SRCPARAM 18344 1.1606E-05 15.5448 0 0.177029833 0.1524 SO SRCPARAM 18360 1.1606E-05 5.7404 0 0.406404575 0.100584 SO SRCPARAM 18361 1.1606E-05 5.7404 0 0.708119332 0.0762
SO SRCPARAM T8361 1.1606E-05 3.7404 0 0.768119332 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 18391 1.1606E-05 10.668 0 0.708119332 0.0762
SO SRCPARAM 18392 1.1606E-05 10.567416 0 0.406404575 0.100584
SO SRCPARAM 18393 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 THE 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 TENC 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 E003 Fugitives - CE003F
** 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 CE003F1 2.5830E-04 10.0584 13.02325581 2.410046512 SO SRCPARAM CE003F2 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
SO BUILDHGT 1RX
                            12.10
12.10
                                      12.10
                                                12.10
                                                          12.10
                                                                   12.10
                                                                             12.10
                                     12.10
                                                12.10
                                                         12.10
                                                                   12.10
                                                                             12.10
SO BUILDHGT 1RX
SO BUILDWID 1RX
                            12.10
30.25
                                                                             12.10
                                      12.10
                                                12.10
                                                         12.10
                                                                   12.10
                                                40.39
                                                          47.76
                                      31.80
                                                                   53.68
                                                                             57.96
                            60.49
SO BUILDWID 1RX
                                     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
SO BUILDWID 1RX
                            60.49
                                                          57.00
                                      61.17
                                                60.00
SO BUILDWID 1RX
                            61.07
                                                57.27
                                                                   46.57
                                      60.09
                                                          52.72
                            57.00
SO BUILDLEN 1RX
                                                          61.07
                                                                   60.09
                                      57.50
                                                60.20
                                                                             57.27
SO BUILDLEN 1RX
                                                39.00
                            52.72
                                      46.57
                                                          30.25
                                                                   31.80
                                                                             40.39
                            47.76
                                                57.96
                                                          60.49
                                                                             60.00
SO BUILDLEN 1RX
                                      53.68
                                                                   61.17
                                      57.50
                                                60.20
SO BUILDLEN 1RX
                            57.00
                                                          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
                                                 0.10
                           -1.90
                                     -0.92
                                                                   2.09
SO XBADI
               1RX
                                                         1.11
                                                                             3.00
                                                                             -9.72
SO XBADJ
                             3.82
                                                                   -6.59
               1<sub>RX</sub>
                                       3.58
                                                 0.16
                                                         -3.27
                                                                  -28.13
SO XBADJ
               1RX
                           -12.55
                                    -15.01
                                             -17.00 -18.48
                                                                           -37.56
SO XBADJ
               1RX
                           -45.86
                                   -52.76 -58.06 -61.59
                                                                 -63.26 -63.00
                                   -12.23 -17.37 -21.98
SO YBADJ
              1RX
                           -3.36
                                                                 -25.92
                                                                           -29.08
```



SO YBADJ SO YBADJ SO YBADJ SO YBADJ SO YBADJ	1RX 1RX 1RX 1RX 1RX	-31.35 -27.27 3.36 31.35 27.27	-32.67 -23.45 12.23 32.67 23.45	-33.00 -18.92 17.37 33.00 18.92	-32.33 -13.81 21.98 32.33 13.81	-32.33 -8.28 25.92 32.33 8.28	-30.26 -2.50 29.08 30.26 2.50
SO BUILDHGT		12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10	12.10 12.10
SO BUILDHGT SO BUILDHGT		12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10	12.10 12.10 12.10
SO BUILDHGT	2RX 2RX	12.10 12.10	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	12.10 $12.10$	12.10 12.10
SO BUILDWID SO BUILDWID		30.25 60.49	31.80 61.17	40.39 60.00	47.76 57.00	53.68 57.50	57.96 60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDWID		30.25 60.49	31.80 61.17	40.39 60.00	47.76 57.00	53.68 57.50	57.96 60.20
SO BUILDWID	2RX	61.07	60.09	57.27	52.72	46.57	39.00
SO BUILDLEN SO BUILDLEN		57.00 52.72	57.50 46.57	60.20 39.00	61.07 30.25	60.09 31.80	57.27 40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO BUILDLEN		57.00 52.72	57.50 46.57	60.20 39.00	61.07 30.25	60.09 31.80	57.27 40.39
SO BUILDLEN	2RX	47.76	53.68	57.96	60.49	61.17	60.00
SO XBADJ SO XBADJ	2RX 2RX	-60.83 -40.17	-61.09 -31.56	-60.36 -22.00	-57.81 -11.77	-53.49 -3.67	-47.55 -2.83
SO XBADJ	2RX	-1.90	-0.92	0.10	1.11	2.09	3.00
SO XBADJ SO XBADJ	2RX 2RX	3.82 -12.55	3.58 -15.01	0.16 -17.00	-3.27 -18.48	-6.59 -28.13	-9.72 -37.56
SO XBADJ	2RX	-45.86	-52.76	-58.06	-61.59	-63.26	-63.00
SO YBADJ SO YBADJ	2RX 2RX	-3.36 -31.35	-12.23 -32.67	-17.37 -33.00	-21.98 -32.33	-25.92 -32.33	-29.08 -30.26
SO YBADJ	2RX	-27.27	-23.45	-18.92	-13.81	-8.28	-2.50
SO YBADJ SO YBADJ	2RX 2RX	3.36 31.35	12.23 32.67	17.37 33.00	21.98 32.33	25.92 32.33	29.08 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 3RX	12.10 12.10	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	$12.10 \\ 12.10$	12.10 $12.10$
SO BUILDHGT	3RX	12.10	12.10	12.10	12.10	12.10	12.10
SO BUILDHGT	3RX 3RX	12.10 $12.10$	12.10 12.10	12.10 12.10	$12.10 \\ 12.10$	$12.10 \\ 12.10$	12.10 $12.10$
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX 3RX	60.49 61.07	61.17 60.09	60.00 57.27	57.00 52.72	57.50 46.57	60.20 39.00
SO BUILDWID	3RX	30.25	31.80	40.39	47.76	53.68	57.96
SO BUILDWID	3RX 3RX	60.49 61.07	61.17 60.09	60.00 57.27	57.00 52.72	57.50 46.57	60.20 39.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN	3RX 3RX	52.72 47.76	46.57 53.68	39.00 57.96	30.25 60.49	$31.80 \\ 61.17$	40.39 60.00
SO BUILDLEN	3RX	57.00	57.50	60.20	61.07	60.09	57.27
SO BUILDLEN SO BUILDLEN	3RX 3RX	52.72 47.76	46.57 53.68	39.00 57.96	30.25 60.49	31.80 61.17	40.39 60.00
SO XBADJ	3RX	-60.83	-61.09	-60.36	-57.81	-53.49	-47.55
SO XBADJ SO XBADJ	3RX 3RX	-40.17 -1.90	-31.56 -0.92	-22.00 0.10	-11.77 $1.11$	-3.67 2.09	-2.83 3.00
-0 //2/100			0.52	0.10			5.00



```
SO XBADJ
            3RX
                       3.82
                                3.58
                                      0.16 - 3.27
                                                      -6.59
                                                              -9.72
                                                      -28.13
                             -15.01
                                     -17.00 -18.48
                                                              -37.56
SO XBADI
            3RX
                      -12.55
            3RX
SO XBADJ
                      -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
            3RX
                               12.23
                                       17.37
                                               21.98
                                                       25.92
                                                               29.08
SO YBADJ
                        3.36
                                       33.00
SO YBADJ
            3RX
                       31.35
                               32.67
                                               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
SO BUILDHGT 789RX
                         12.10
                                 12.10
                                         12.10
                                                 12.10
                                                         12.10
                                                                 12.10
                         12.10
                                 12.10
                                         12.10
                                                 12.10
                                                         12.10
                                                                 12.10
SO BUILDHGT 789RX
SO BUILDHGT 789RX
                         12.10
                                 12.10
                                         12.10
                                                 12.10
                                                         12.10
                                                                 12.10
                         12.10
                                 12.10
                                         12.10
                                                 12.10
                                                         12.10
                                                                 12.10
SO BUILDWID 789RX
SO BUILDWID 789RX
                                 56.90
                         56.31
                                         58.61
                                                 60.06
                                                         59.69
                                                                 57.51
                         53.58
                                         41.00
                                 48.02
                                                 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
                                                 58.01
                                                                  57.00
                                 52.02
                                         55.86
                                                         58.39
                                 31.71
SO BUILDLEN 789RX
                         32.74
                                         39.76
                                                 46.60
                                                         52.02
                                                                 55.86
SO BUILDLEN 789RX
SO BUILDLEN 789RX
                                         57.00
57.51
                         58.01
                                                         56.90
                                 58.39
                                                                 58.61
                                                 56.31
                         60.06
                                 59.69
                                                         48.02
                                                                 41.00
                                                 53.58
SO BUILDLEN 789RX
                         32.74
                                         39.76
                                                                 55.86
                                 31.71
                                                 46.60
                                                         52.02
SO BUILDLEN 789RX
                         58.01
                                         57.00
                                 58.39
                                                 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
                                                        -19.79
                                                                -22.15
                                                -16.84
            789RX
                        -23.83 -24.79
                                        -25.00
                                                -24.45
SO XBADJ
                                                        -23.15
                                                                -23.99
SO XBADJ
            789RX
                       -25.63 -26.49
                                        -26.55
                                                -25.80
                                                        -24.27
                                                                -22.00
                       -19.06 -22.22
            789RX
                                        -26.39
                                                -29.76
                                                        -32.23
SO XBADJ
                                                                -33.71
            789RX
SO XBADJ
                        -34.17
                                -33.60
                                        -32.00
                                                -31.86
                                                        -33.75
                                                                -34.61
                        -34.43 -33.20
                                        -30.95
SO XBADJ
            789RX
                                                -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
            789RX
                         6.46
                                  6.22
                                          5.78
                                                  5.17
                                                          4.40
                                                                  3.50
SO YBADJ
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
                                         -5.78
                         -6.46
SO YBADJ
            789RX
                                                         -4.40
                                 -6.22
                                                 -5.17
                                                                 -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
```



```
******************
** 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_A11 L001 L002 L003 L004
SO SRCGROUP T_T_All T8313 T8314 T8320 T8322 T8323
SO SRCGROUP T_T_All T8331 T8334 T8344 T8360
SO SRCGROUP T_T_All T8361 T8363 T8364 T8373 T8380
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 T8361 T8363 T8364 T8373 T8380

SO SRCGROUP T_POINT T8381 T8383 T8390 T8391 T8392 T8393 T8420
** Triton Fugitive Source Groups
SO SRCGROUP THE THE
SO SRCGROUP TRE TRE
SO SRCGROUP TENC TENC
** Triton All Fugitive Sources Group
SO SRCGROUP T_FUGIT THE TRE TENC
** 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 T8344 T8360
SO SRCGROUP TRITON T8361 T8363 T8364 T8373 T8380
SO SRCGROUP TRITON T8381 T8383 T8390 T8391 T8392 T8393 T8420
SO SRCGROUP TRITON THE TRE TENC
******************
** Oxide Adducts Source Groups
```



```
** 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 T9614 T9615 T9616 T9617 T9619 T9622 T9624 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 0A_POINT 19812 T9814 T9815 T9822 T9824 T9825
SO SRCGROUP 0A_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 T9614 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 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 T9627 T9629 T9635 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

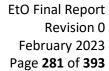
# January Monitoring Event AERMOD Input: Institute

```
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 ETNISHED
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 2300 ETO_INST_2300.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
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 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
```







## February Monitoring Event AERMOD Input: Institute

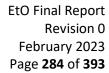
```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED
SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_feb_2022.INP
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 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 2300 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
MF 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

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 FINISHED** 

# March Monitoring Event AERMOD Input: Institute

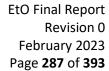
```
CO STARTING
CO TITLEONE Ethylene oxide - Institute
CO TITLETWO Ethylene Oxide Distribution AND Polyox Processes
CO MODELOPT DFAULT CONC NODRYDPLT NOWETDPLT
CO AVERTIME PERIOD
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL error.fil
CO FINISHED
SO STARTING
SO ELEVUNIT METERS
SO INCLUDED INSTITUTE_Mar_2022.INP
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 230K ETO_INST_230K.plt
OU PLOTFILE PERIOD 2300 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
```



## 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_A]] T_L_A]].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







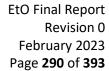
## April Monitoring Event AERMOD Input: Institute

```
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_EODFLARF.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 2300 ETO_INST_2300.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
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
******************
OU STARTING
OU PLOTFILE PERIOD ALL SC_ALL.plt
                                 ,,,,
** Chemical Mixing
OU PLOTFILE PERIOD CHMIX CHMIX.plt
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 CEOO3F CEOO3F.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
```







# **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 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. DUPLETE = F

* Model Uses NO DRY DEPLETION. DUPLETE = 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.

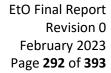
* No Exponential Decay.

* 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)
                                               7 POINT(S), including
0 POINT(AP(s) and
19 VOLUME SOURCE(S)
0 AREA type source(s)
0 LINE SOURCE(S)
0 RIINE(RIINEXT SOURCE(S)
0 OPENPIT SOURCE(S)
0 DBIOYANT LINE SOURCE(s)
0 BBIOYANT LINE Source(s)
0 SWPOINT SOURCE(s)
                              with:
 \ensuremath{^{**}}\mbox{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 \text{ 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
```

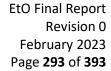




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,





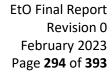
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Surface file: INST\_Jan\_22.SFC
Profile file: INST\_Jan\_22.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 13866 Upper air station no.: 53829
Name: INSTITUTE/SOUTH CHARLESTON SITE, WV Name: UNKKNOWN
Year: 2022 Met Version: 22112 Name: 1811U1E/SOUTH CHARLE Year: 2012

First 24 hours of scalar data Year: 2012

22 01 25 25 01 -1.5 0.063 -9.000 -9.000 -22 01 25 25 03 -2.7 0.073 -9.000 -9.000 -9.000 -22 01 25 25 03 -2.7 0.073 -9.000 -9.000 -22 01 25 25 03 -2.7 0.073 -9.000 -9.000 -22 01 25 25 05 -5.6 0.101 -9.000 -9.000 -22 01 25 25 05 -5.6 0.101 -9.000 -9.000 -22 01 25 25 05 -5.6 0.101 -9.000 -9.000 -22 01 25 25 07 -131 4 0.158 -9.000 -9.000 -22 01 25 25 07 -131 4 0.158 -9.000 -9.000 -22 01 25 25 07 -131 4 0.158 -9.000 -9.000 -22 01 25 25 07 -131 4 0.158 -9.000 -9.000 -22 01 25 25 09 -2.9 0.080 -9.000 -9.000 -22 01 25 25 10 0.1 0.070 0.023 0.010 -22 01 25 25 11 0.1 0.087 0.026 0.088 22 01 25 25 11 0.1 0.087 0.026 0.088 22 01 25 25 13 0.1 0.067 0.029 0.099 22 01 25 25 13 0.1 0.067 0.029 0.099 22 01 25 25 16 0.1 0.1007 0.030 0.006 22 01 25 25 16 0.1 0.090 0.031 0.088 22 01 25 25 15 0.1 0.1007 0.030 0.008 22 01 25 25 18 0.1 0.090 0.031 0.090 9.000 -20 01 25 25 15 3 0.1 0.067 0.099 0.099 0.000 -20 01 25 25 25 25 25 10 0.5 0.043 -9.000 -9.000 -9.000 -20 01 25 25 25 25 25 25 25 0.9 0.046 -9.000 -9.000 -9.000 -20 01 25 25 25 25 25 25 0.9 0.046 -9.000 -9.000 -9.000 -20 01 25 25 25 25 24 -5.5 0.091 -9.000 -9.00 W<sup>3</sup> DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD M-O LEN Z0

15.2 0.23
20.0 0.23
12.9 0.23
12.9 0.23
13.5 0.35
16.3 0.24
76.5 0.14
27.6 0.24
35.9 0.23
35.9 1.0 12
-582.5 0.11
-3811.5 0.01
-264.7 0.01
-1087.0 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01
-11.8 0.12
-57.1 0.01 HT REF TA 3. 2. 21. 83. 96. 360. 93. 26. 203. 275. 319. 310. 281. 315. 275. 305. 208. 209. 209. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. -999. 38. 104. 48. 49. 77. 325. 156. 184. 60. 44. 62. 158. 47. 84. 65. 20. 23. 34. 21. 38. -999. 24. 66. 1.00 1.00 1.00 1.00 1.00 1.00 0.44 0.28 0.20 0.21 0.25 0.71 1.00 1.00 1.00 0.40 1.16 0.63 0.54 2.77 1.43 1.65 0.76 0.76 0.75 2.86 1.16 0.94 0.67 0.40 0.28 0.54 0.28 0.54 278.6 277.8 277.8 277.6 277.6 273.6 273.8 274.0 272.1 272.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 First hour of profile data YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV 22 01 25 01 7, 91 3. 0.40 278.8 99.0 -99.00 -99.00

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

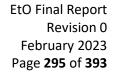




\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

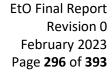
					Sir the	CONC	OF (	отн	ER IN M	CROGRAM	IS/M**	3				命作		
ROUP ID					AVERAGE	CONC			R	CEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
								-										
ODISTFL	1cT	HIGHEST	VALUE	TC	0	07311	AT	0	432492.99	47401	30.00		215.50,	325.	70	0.00	DC	
ODISTIL		HIGHEST		TS	0.	06762	AT	ć	432392 99	42491	80.00		215.80,			0.00		
		HIGHEST		TS	0.	06590	AT	ć	432442 99	42491	30.00		212.10.	325.		0.00)		
		HIGHEST		TS	0.	05256	AT	è	432542 99	42491	30.00		211.80,	325.		0.00		
		HIGHEST		TC	0.	04808	AT	ć	432703 87	42491	10.67		213.40.	325.		0.00)		
		HIGHEST		TC	o.	03463	AT	2	432731 66	4240	18.67		217.30.	325.		0.00)		
		HIGHEST		TC	0.	03775	AT	6	432331 66	42402	18.67		216.70.	325.		0.00)		
		HIGHEST		TC	0.	03028	AT	2	432502.00	42401	30.00		218.00,	325.		0.00)		
		HIGHEST		TC	0.	03036	AT	2	432332.33	42491	18.67		212.30,	327		0.00)		
		HIGHEST		TC	0.	03023	AT	2	422721 66	4249	18.67		215.50,			0.00)		
	TOTH	HIGHEST	VALUE	13	0.	02000	AI	(	432492.99 432392.99 432442.99 432703.87 432731.66 432331.66 432592.99 433031.66 433731.66	4243.			213.30,	342	10,	0.00)	DC	
ODPOINT	1ST	HIGHEST	VALUE	TS	0.	07311	AT	(	432492.99 432392.99 432442.99 432542.99 432731.66 432731.66 432592.99 433031.66 433731.66	42491	30.00		215.50,	325.	70.	0.00	DC	
	2ND	HIGHEST	VALUE	IS	0.	06762	AT	Ĉ	432392.99	42491	80.00	0 6	215.80,	325.		0.00	DC	
		HIGHEST		TS	0.	06590	AT	è	432442.99	42491	30.00		212.10,	325.		0.00		
		HIGHEST		TS	0.	05256	AT	è	432542.99	42491	30.00		211.80,	325.		0.00		
		HIGHEST		TS	0.	04898	AT	ć	432703 87	42491	10 67		213.40,	325.		0.00		
		HIGHEST		TS	0.	03463	AT	č	432731 66	42493	18 67		217.30.	325		0.00)		
		HIGHEST		TC	0.	03775	AT	è	432331 66	42492	18 67	i (	216.70.	325.		0.00)		
		HIGHEST		TC	o.	03058	AT	2	432502.00	42491	30.00		218.00,	325.		0.00)		
		HIGHEST		TC	0.	03035	AT	2	433031 66	42492	18 67		212.30,	327.		0.00)		
		HIGHEST		TS	0.	02888	AT	ć	433731 66	4249	18 67		215.50.	342.		0.00)		
	10111	HIGHEST	VALUE	13	0.	ULUUU	-	(	433131.00	7243.	10.01		213.30,	372.	10,	0.00)	00	
ODRAILF	1ST	HIGHEST	VALUE	IS	0.	09114	AT	(	431386.12	42489	44.69		182.00,	328.	25,	0.00)	DC	
		HIGHEST			0.	05866	AT	(	432114.34	42490	63.48		183.18.	326.	46.	0.00)	DC	
	3RD	HIGHEST	VALUE	IS	0.	05167	AT	Ċ	432431.66	42490	18.67		187.40,	326.	50.	0.00)	DC	
	4TH	HIGHEST	VALUE	IS	0.	05117	AT	Ċ	432392.99	42490	30.00	:	186.80.	326.	50.	0.00)	DC	
	5TH	HIGHEST	VALUE	IS	0.	04917	AT	Ĉ	432442.99	42490	30.00		188.60,	326.	50.	0.00)	DC	
		HIGHEST			0.				432292.99		80.00		186.20.	326.	50.	0.00)	DC	
	7TH	HIGHEST	VALUE	TS	0.	04641	AT	Ĉ	432492.99	42490	30.00	9	190.90,	326.	50.	0.00)	DC	
		HIGHEST			0.				431492.99		30.00		181.30.	326.		0.00	DC	
		HIGHEST			ő.				432531.66		18.67		191.00,	325.		0.00)		
		HIGHEST							432379.22		66.23		186.60,	326.		0.00)		
								1										
ODPUMPF		HIGHEST							431386.12		44.69		182.00,	328.		0.00)		
		HIGHEST				11295			432114.34		63.48		183.18,	326.		0.00)		
		HIGHEST						(	432392.99	42490	30.00		186.80,	326.		0.00)		
		HIGHEST				09577		(	432442.99	42490	30.00		188.60,	326.		0.00)		
	5TH	HIGHEST	VALUE	IS	0.				432431.66		18.67		187.40,	326.		0.00)		
		HIGHEST			0.	08802			432203.87		.10.67		186.90,	326.		0.00)	DC	
		HIGHEST			0.	08729	AT	(	432192.99		30.00		186.80,	326.	50,	0.00)	DC	
		HIGHEST			0.	08705	AT	Ċ	432492.99		30.00		190.90,	326.	50,	0.00)	DC	
		HIGHEST			0. 0. 0. 0.	08606	AT	Ċ	432142.99		30.00		186.10,	326.	50,	0.00)	DC	
		HIGHEST			^				432231.66		18.67		186.90.	326.		0.00)	DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

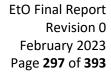
			str str	CONC OF	отн	ER IN MI	CROGRAM	IS/M**	3		杂价		
GROUP ID			AVERAGE	CONC		RE	CEPTOR	(XR,	YR, ZELEV,	ZHILL, ZFLAG)	OF T	TYPE	NETWORK GRID-ID
												_	
EODTANKE	1ST HIGHEST					431386.12,		44.69			0.00)	DC	
	2ND HIGHEST					432114.34,		63.48			0.00)	DC	
	3RD HIGHEST			.05108 A		432292.99,		80.00			0.00)	DC	
	4TH HIGHEST		15 0	.04965 A		432379.22,		66.23 .30.00			0.00)	DC	
	5TH HIGHEST 6TH HIGHEST			.04942 A		432203.87		10.67			0.00)	DC	
	7TH HIGHEST		rs 0	.04920 A		432342.99.		80.00			0.00)	DC	
	8TH HIGHEST		rs 0	.04828				30.00			0.00)	DC	
	9TH HIGHEST		rs 0	.04719 #		432192.99.		30.00			0.00)	DC	
	10TH HIGHEST		rs 0			432231.66		18.67			0.00)	DC	
	TOTH HIGHEST	THEOL		101013		1322321001	12102	20101	1 1001301	3201301	0.00)	0	
EODFLARF	1ST HIGHEST	VALUE		.03037 A		431386.12,		44.69			(00.0)	DC	
	2ND HIGHEST			.02251 A		432114.34,		63.48			(00.0)	DC	
	3RD HIGHEST			.01661 A		432292.99,		00.08			0.00)	DC	
	4TH HIGHEST					432142.99,		.30.00			0.00)	DC	
	5TH HIGHEST			.01590 A		432342.99,		180.00			0.00)	DC	
	6TH HIGHEST			.01563 A		432379.22,		66.23			0.00)	DC	
	7TH HIGHEST			.01544 A		431631.66,		18.67			0.00)	DC	
	8TH HIGHEST			.01532 A		432392.99,		80.00			0.00)	DC	
	9TH HIGHEST 10TH HIGHEST					431731.66, 431642.99.		18.67			0.00)	DC	
	TOTA HIGHEST	VALUE	15 0	.U1433 F	11 (	431042.33,	42492	30.00	, 103.30,	320.30,	0.00)	UC	
EODR25F	1ST HIGHEST	VALUE	rs 0	.06002 A	T.C	431992.99,	42491	.80.00	. 186.60.	326.50.	0.00)	DC	
	2ND HIGHEST			.03671 A	AT (	431831.66.	42492	18.67		328.30,	0.00)	DC	
	3RD HIGHEST	VALUE	rs 0	.03466 A	AT (	431892.99,	42492	30.00	, 187.60,		(00.0)	DC	
	4TH HIGHEST	VALUE	rs 0	.03279 A		431842.99		30.00	, 186.80,	328.30,	(00.0)	DC	
	5TH HIGHEST	VALUE		.03090 A		432042.99,		.80.00		326.50,	0.00)	DC	
	6TH HIGHEST	VALUE		.02842 A		431931.66,		18.67			(00.0)	DC	
	7TH HIGHEST		rs 0	.02134 A		431942.99,		30.00			0.00)	DC	
	8TH HIGHEST			.02119 A		432031.66,		18.67			0.00)	DC	
	9TH HIGHEST		ts 0			431792.99,		30.00			0.00)	DC	
	10TH HIGHEST	VALUE	ts 0	.01680 A	T (	432092.99,	42491	.80.00	, 187.60,	326.50,	0.00)	DC	
EODFUGI	1ST HIGHEST	VALUE	rs n	.48137 A	T C	431386.12,	47489	44.69	, 182.00,	328.25.	0.00)	DC	
LODIUGI	2ND HIGHEST			.27245 A	T	432114.34	42490	63.48			0.00)	DC	
	3RD HIGHEST			.21250 A	T	432392.99	42490	30.00			0.00)	DC	
	4TH HIGHEST			.20375 A		432203.87		10.67			0.00)	DC	
	5TH HIGHEST			.20346 A		432442.99		30.00			0.00)	DC	
	6TH HIGHEST	VALUE		.19701 A		432292.99		80.00			0.00)	DC	
	7TH HIGHEST	VALUE		.19664 A	T (	432142.99,		30.00	, 186.10,	326.50,	0.00)	DC	
	8TH HIGHEST			.19659 A		432431.66,		18.67			0.00)	DC	
	9TH HIGHEST					432379.22,		66.23			0.00)	DC	
	10TH HIGHEST	VALUE	ts 0	.19439 A	AT (	432192.99,	42491	.30.00	, 186.80,	326.50,	0.00)	DC	





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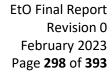
					** CONC	OF	OTH	HER	IN M	CROGRA	MS/M <sup>®®</sup>	3				**		
GROUP I	D				AVERAGE CONC				RF	ECEPTOR	(XR	YR	, ZELEV,	ZHILL	, ZFLAG	i) OF	TYPE	NETWORK GRID-ID
														200				
EODIST		HIGHEST			0.48153 0.27306						944.69 063.48		182.00, 183.18,		.25,	0.00		
		HIGHEST			0.27306											0.00		
		HIGHEST			0.21376 0.20485						030.00		186.80, 188.60,		.50, .50,	0.00		
		HIGHEST			0.20483						110.67		186.90,		.50,	0.00		
		HIGHEST			0.19802						018.67		187.40,		.50.	0.00		
		HIGHEST			0.19784						080.00		186.20.		.50.	0.00		
		HIGHEST			0.19695	AT	- 6	43237	9 22	4749	066.2		186.60,		.50,	0.00		
		HIGHEST			0.19689						130.00		186.10,		.50,	0.00		
		HIGHEST									130.00		186.80,		.50,	0.00		
221A		HIGHEST									180.00		229.40,		.70,	0.00		
	2ND	HIGHEST	VALUE	IS	0.04671						218.67		229.20,			0.00	)) DC	
		HIGHEST			0.04567						180.00		226.70,		.70,	0.00		
		HIGHEST			0.04307						318.67		230.50,		.70,	0.00		
		HIGHEST			0.03955						318.67		231.10,		.70,	0.00		
		HIGHEST			0.03900						318.67		231.00,		.70,	0.00		
		HIGHEST			0.03816						230.00		233.60,		.40,	0.00		
		HIGHEST			0.03537						180.00		225.50,		.70,	0.00		
		HIGHEST			0.03199						218.6		227.50,		.70,	0.00		
	10TH	HIGHEST	VALUE	IS	0.03194	AT	(	43303	1.66	4249	218.67	,	225.90,	325	.70,	0.00	)) DC	
230M	1ST	HIGHEST	VALUE	IS	0.14580	AT	(	43204	2.99	4248	030.00	).	172.80,	314	. 60 .	0.00	)) DC	
		HIGHEST			0.14288			43283			318.67		182.30,		.60,	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.13420	AT	Ċ	43203	1.66	4248	018.67		172.80,	314	.60,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS		AT	(	43204	2.99	4247	980.00	),	172.80,	314	.60,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.10490	AT	(	43199	2.99	4247	930.00	),	172.80,	314	.60,	0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.09155						880.00		172.80,		.60,	0.00		
	7TH	HIGHEST	VALUE	IS	0.09123				9.22	4248	316.23	3,	181.30,	314	.60,	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.08991						818.67		180.30,		.60,	0.00	)) DC	
	9 <b>T</b> H	HIGHEST	VALUE	IS	0.08931						880.00	),	172.80,	314	.60,	0.00		
	10TH	HIGHEST	VALUE	IS	0.08915	AT	(	43214	2.99	4247	930.00	),	172.80,	314	.60,	0.00	)) DC	
230L		HIGHEST									030.00		172.80,		.60,	0.00		
		HIGHEST									318.67		182.30,		.60,	0.00		
		HIGHEST			0.58211	AT	(	43203			018.67		172.80,		.60,	0.00		
		HIGHEST				AT	ς	43204			980.00		172.80,		.60,	0.00		
		HIGHEST									930.00		172.80,		.60,	0.00		
		HIGHEST				AT	Ç	43287	9.22	4248	316.2		181.30,		.60,	0.00		
		HIGHEST			0.40137	AT	(	43259	2.99	424/	930.00		181.10,		.60,	0.00		
		HIGHEST									880.00		172.80,		.60,	0.00		
		HIGHEST									818.67		180.30,		.60,	0.00		
	TOTH	HIGHEST	VALUE	12	0.39389	AI	(	432/3	T. 00	4248	010.0	,	181.90,	314	.60,	0.00	)) DC	





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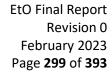
					str the	CONC	OF (	отн	ER I	N MI	CROGRAM	IS/M <sup>☆☆</sup>	3				**		
GROUP	ID				AVERAGE	CONC				RE	CEPTOR	(XR,	YR,	ZELEV,	ZHILL	, ZFLAG	) OF	TYPE	NETWORK GRID-ID
								-										-	
230K	1ST	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0. 0.	13465	AT	(	432042	.99,	42480	30.00	,	172.80,	314	.60,	0.00)		
	2ND	HIGHEST	VALUE	IS	0.	12821	AT	Ç	432831	.66,	42483	18.67	,	182.30,	314	.60,	0.00)		
	3RD	HIGHEST	VALUE	IS	0.	12517	AT	(	432031	. 66,	42480	118.67	,	172.80,	314	.60,	0.00)		
	4TH	HIGHEST	VALUE	IS	0.	11709	AT	(	432042	.99,	424/9	80.00		172.80,	314	.60,	0.00)		
	STH	HIGHEST	VALUE	15	0.	11236	AI	5	432092	.99,	42480	130.00		181.10.		.60,	0.00)		
	7TH	HIGHEST	VALUE	15	0.	10944	AI	-	432392	.99,	42475	130.00	,	180.30.			0.00)		
	7 TH	HIGHEST	VALUE	15	0.	00774	AT	-	432/31	.00,	424/6	110.07	,	175.10,		.60,	0.00)		
	OTH	HIGHEST	VALUE	15	0.	09734	AT	2	432131	.00,	42400	116 22	,	181.30,	214	.60,	0.00)		
	10TH	HIGHEST	VALUE	15	0.	09701	AT	2	432079	00	42403	120.23	•	172.80,		.60,	0.00)		
	TOTH	HIGHEST	VALUE	13	U.	09700	AI	(	431332	. 55,	424/3	30.00		1/2.00,	314	.00,	0.00)	DC	
2300	1st	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0. 0.	00405	AT	(	432092	.99,	42480	30.00	,	174.50,	314		0.00)		
	2ND	HIGHEST	VALUE	IS	0.	.00390	AT	(	434379	.22,	42478	316.23	,	211.90,	303		0.00)		
	3RD	HIGHEST	VALUE	IS	0.	.00361	AT	Ć	434629	.22,	42475	66.23	,	211.00,	303		0.00)		
	4TH	HIGHEST	VALUE	IS	0.	.00353	AT	(	434531	.66,	42477	18.67	,	210.70,		. 80,	0.00)		
	5TH	HIGHEST	VALUE	IS	0.	.00350	AT	Ç	434703	.87,	4247€	10.67	,	212.00,	303	.80,	0.00)		
	6ТН	HIGHEST	VALUE	IS	0.	00343	AT	(	431892	.99,	42481	130.00	,	180.70,		.60,	0.00)		
	7TH	HIGHEST	VALUE	IS	0.	00340	AT	(	434431	. 66,	42477	18.67	,	214.40,		.80,	0.00)		
	8TH	HIGHEST	VALUE	IS	0.	00337	AT	(	434431	. 66,	424/8	18.67	,	210.30,		.80,	0.00)		
	9TH	HIGHEST	VALUE	IS	0.	.00333	AT	Č	434119	.85,	42488	306.86	,	212.30,		.80,	0.00)		
	TOTH	HIGHEST	VALUE	15	0.	00311	AI	(	433703	.87,	42486	510.67	,	209.50,	306	.60,	0.00)	DC	
230HH		HIGHEST				00000			0	.00,		0.00		0.00,	0	.00.	0.00)		
		HIGHEST			0.	00000			0	.00,		0.00	,	0.00,	0	.00,	0.00)		
	3RD	HIGHEST	VALUE	IS	0.	00000	AT	Ċ	0	.00,		0.00	,	0.00,	0	.00,	0.00)		
	4TH	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0.	00000	AT	(	0	.00,		0.00		0.00.	0	.00,	0.00)		
	5TH	HIGHEST	VALUE	IS	0.	00000			0	.00,		0.00		0.00,	0	.00,	0.00)		
		HIGHEST			0.	00000			0	.00,		0.00	,	0.00,		.00,	0.00)		
	7TH	HIGHEST	VALUE	IS	0.	00000			0	.00,		0.00	,	0.00,		.00,	0.00)		
	8TH	HIGHEST	VALUE	IS	0.	00000			0	.00,				0.00,		.00,	0.00)		
		HIGHEST			0.	00000			0	.00,		0.00		0.00,	0	.00,	0.00)		
		HIGHEST				00000	AT	(	0 0 0 0 0 0	.00,		0.00	,	0.00,	0	.00,	0.00)		
POINT	1st	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.	91333	AT	C	432042			30.00		172.80.	314	.60.	0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.				432831					182.30,		.60.	0.00)		
	3RD	HIGHEST	VALUE	IS	0.	84435			432031					172.80,	314	.60,	0.00)		
	4TH	HIGHEST	VALUE	IS	0.				432042		42479		1	172.80,	314		0.00)		
	5TH	HIGHEST	VALUE	IS	ő.	66098			431992					172.80,	314	.60,	0.00)		
	6ТН	HIGHEST	VALUE	IS	0.				432879					181.30.		.60.	0.00)		
	7TH	HIGHEST	VALUE	IS	Õ.	60159			432592					181.10,			0.00)		
	8TH	HIGHEST	VALUE	IS	Ö.	58978	AT	Č	432731	.66.	42478			180.30,	314		0.00)		
	9TH	HIGHEST	VALUE	IS	0.				431992					172.80,		.60,	0.00)		
	10TH	HIGHEST	VALUE	IS	0				432731					181.90.		.60.	0.00)		





\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

					str str	CONC	OF (	ЭТН	ER IN MI	CROGRAM	IS/M**	3				**		
ROUP ID					AVERAGE	CONC			RE	CEPTOR	(XR,	YR, Z	ELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
				-				-										
POLYVOL1	1ST	HTGHEST	VALUE	TS	0	04049	ΔТ	0	432583.00,	42482	15 06	18	1.73,	314.	57	0.00)	DC	
OLIVOLI	2ND	HIGHEST	VALUE	TS	0	03676	AT	ć	432092.99.	42480	30.00	. 17	4.50			0.00		
		HIGHEST			0	03532	AT	ć	432131.66	42480	18.67		5.10.	314.		0.00)		
		HIGHEST			o o	03432	AT	è	432831 66	42485	18.67		1.80,	325.		0.00		
		HIGHEST			ő	03108	AT	ć	432831.66	12183	18.67		2.30,	314.		0.00)		
		HIGHEST			0	03050	AT	è	432042 00	42480	30.00		2.80.	314.		0.00)		
		HIGHEST			0	03011	AT	6	432002 00	42470	80.00		2.80.	314.		0.00)		
		HIGHEST			0	02001	AT	2	431000 31	42490	84.26		0.40,	314.		0.00)		
		HIGHEST			0	02994	AT	-	431990.21,	42400	16.23	10	1.30,	314.		0.00)		
					0	02099	AT	-	4320/9.22,	42403	120.23	17						
	TOTH	HIGHEST	VALUE	15	U	.028/4	AI	(	432583.00, 432092.99, 432131.66, 432831.66, 432831.66, 432042.99, 432092.99, 431998.21, 432879.22, 432142.99,	424/9	80.00		2.80,	314.	60,	0.00)	DC	
BL8389	1st	HIGHEST	VALUE	IS	0	.00395	AT	(	432583.00,	42482	15.06	, 18	1.73,	314.	57,	0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0	.00317	AT	(	432831.66,	42483	18.67	. 18	2.30,	314.	60,	0.00)	DC	
	3RD	HIGHEST	VALUE	IS	0	.00302	AT	(	433331.66.	42487	18.67	. 20	2.10,	325.	70.	0.00)	DC	
	4TH	HIGHEST	VALUE	IS	0	.00295	AT	Ĉ	432879.22.	42483	16.23	. 18	1.30,	314.		0.00)	DC	
		HIGHEST			0	00294	AT	Č	432831.66.	42485	18.67	. 18	1.80,	325.		0.00		
		HIGHEST			0	00278	AT	è	432879.22	42485	66.23	1.8	2.50,	325.		0.00		
		HIGHEST			o o	00277	AT	è	432931.66	42483	18.67	18	2.10.	314.		0.00		
		HIGHEST			ñ	00272	AT	è	433531 66	42486	18 67	20	2.00,	306.		0.00)		
		HIGHEST			ő	00266	AT	è	433331 66	42486	18 67	19	8.00.	325.		0.00)		
		HIGHEST			ő	00258	AT	Č	432583.00, 432831.66, 433331.66, 432879.22, 432831.66, 432879.22, 432931.66, 433531.66, 433531.66,	42486	18.67	, 19	8.90,	306.		0.00)		
														24.4				
FUGIT		HIGHEST			0				432583.00,		15.06		1.73,	314.		0.00)		
		HIGHEST			0	03871	AT	(	432092.99,		30.00		4.50,	314.		0.00)		
		HIGHEST							432131.66,		18.67		5.10,	314.		0.00)		
		HIGHEST			0				432831.66,		18.67	, 18	1.80,	325.		0.00)		
		HIGHEST			0	.03515			432831.66,		18.67		2.30,	314.		0.00)		
	6TH	HIGHEST	VALUE	IS	0				432092.99,		180.00		2.80,	314.		0.00)	DC	
	7TH	HIGHEST	VALUE	IS	0	.03202			432042.99,		130.00		2.80,	314.	60,	0.00)	DC	
		HIGHEST			0				432879.22,		16.23		1.30,	314.		0.00)		
	9TH	HIGHEST	VALUE	IS	0	03129	AT	(	431998.21,	42480	84.26	, 18	0.40,	314.	57,	0.00)	DC	
	10TH	HIGHEST	VALUE	IS	0 0 0 0 0	.03093	AT	(	432931.66,	42485	18.67	, 18	3.30,	325.	70,	0.00)	DC	
OLYOX	157	HIGHEST	VALUE	TC		94535	AT	c	432042.99.	47480	30.00	17	2.80.	314.	60	0.00	DC	
OLIUA		HIGHEST				92708			432831.66.		18.67		2.30.	314.		0.00)		
		HIGHEST							432031.66,		18.67		2.80,	314.		0.00)		
						76234			432042.99.		80.00		2.80,	314.		0.00)		
		HIGHEST							431992.99,		30.00		2.80,	314.		0.00)		
		HIGHEST											1.30.					
		HIGHEST				65959			432879.22,		16.23			314.		0.00)		
		HIGHEST			Ü	01842	AI	1	432592.99,	42475	30.00	, 18	1.10,	314.		0.00)		
		HIGHEST				60240			432731.66,		18.67		0.30,	314.		0.00)		
		HIGHEST							431992.99,		80.00		2.80,	314.		0.00)		
	TOTH	HIGHEST	VALUE	IS	0	59459	AT	(	432931.66,	42483	18.67	, 18	2.10,	314.	bU, (	0.00)	DC	





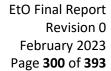
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* 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 GRID-ID 1ST HIGHEST VALUE IS 2ND HIGHEST VALUE IS 3RD HIGHEST VALUE IS 4TH HIGHEST VALUE IS 5TH HIGHEST VALUE IS 5TH HIGHEST VALUE IS 7TH HIGHEST VALUE IS 8TH HIGHEST VALUE IS 9TH HIGHEST VALUE IS 10TH HIGHEST VALUE IS 0.98214 AT ( 432831.66, 4248318.67, 0.97722 AT ( 432042.99, 4248030.00, 1.90550 AT ( 432031.66, 4248018.67, 0.79192 AT ( 432042.99, 4247980.00, 0.71616 AT ( 432879.22, 4248316.23, 0.71092 AT ( 432879.22, 4248316.23, 0.71092 AT ( 431992.99, 4247930.00, 0.65726 AT ( 432931.66, 4248318.67, 0.65714 AT ( 432592.99, 4247981.67, 63583 AT ( 432731.66, 4248318.67, 0.652769 AT ( 431992.99, 4247880.00, 0.00) DC 0.00) DC

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







### 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 *** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
 *** 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 NORY DEPLETION. DOPLETE = F

* Model Uses NO NORY DEPLETION. DEPLETE = F

* Model Uses NO WET DEPLETION. WETDPLT = F

* Stack-tip Downwash.

* Model Accounts for ELEVATE TERRATE Effects.

* Use Calms Processing Routine.

* Use Missing Data Processing Routine.

* Use Missing Data Processing Routine.

* No Exponential Decay.

* Model Uses RURAL Dispersion Only.

Option for Capped & Horiz Stacks Selected With:

O Capped Stack(s); and

* ADJ_U* — Use ADJ_U* Option for SBL in AERMET

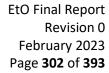
* Model Assumes NO FLAGPOLE Receptor Heights.

* 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 = MICKOGRAMS/M**3
 **Approximate Storage Requirements of Model = 20.5 \text{ 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
```

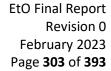




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

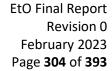




\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, MV Jan 25-26, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\* \*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Met Version: 22112 W<sup>3</sup> DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD HT REF TA 12.1 9.0 29.4 13.6 11.8 30.1 11.0 15.1 2524.8 -754.1 -837.2 -1280.7 -281.4 12.1 13.0 18.8 14.6 10.7 -99999.0 8.0 -999. -999. -999. -999. -999. -999. -999. -999. 4. 6. 7. 7. 7. 8. 9. 11. -999. -999. -999. -999. -999. 69. 44. 159. 82. 69. 161. 52. 48. 60. 129. 106. 69. 70. 74. 34. 30. 34. 34. 30. 31. 44. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.43 0.28 0.22 0.19 0.20 0.21 0.25 0.37 0.72 1.00 1.00 279.3 278.8 278.8 277.8 277.9 277.8 276.4 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 273.1 1.65 1.21 2.77 1.83 1.74 2.10 9.94 1.12 1.61 1.48 1.12 1.16 1.34 0.76 1.03 0.49 0.28 0.85 0.36 0.36 0.31 275. 271. 285. 270. 266. 325. 331. 325. 339. 309. 309. 309. 342. 281. 356. 348. 366. 312. 274. 264. 268.

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

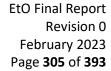
F indicates top of profile (=1) or below (=0)





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

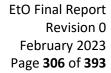
					** CONC O	FOT	HER IN MIC	ROGRAMS/M**	3		sh th	
GROUP :	ID				AVERAGE CONC		REG	EPTOR (XR,	YR, ZELEV,	ZHILL, ZFLAG	OF TYPE	NETWORK GRID-ID
CHMIX		HIGHEST			0.06556	AT (	440277.01,	4246783.81	, 183.80,		0.00) DC	
		HIGHEST			0.03169	AT (	440277.01,	4246733.81	, 183.70,		0.00) DC	
		HIGHEST			0.02931	AT (	440315.68,	4246722.48	, 184.10,		0.00) DC	
		HIGHEST			0.02730	AT (	440377.01,	4246733.81	, 183.70,		0.00) DC	
		HIGHEST			0.02420	AT (	440327.01,	4246733.81	, 184.40,		0.00) DC	
		HIGHEST			0.02346	AT (	440415.68,	4246722.48	, 183.30,		0.00) DC	
		HIGHEST			0.02238	AT (	440327.01,	4246683.81	, 183.20,		0.00) DC	
		HIGHEST			0.02101	AT (	440277.01,	4246683.81	, 182.10,		0.00) DC	
		HIGHEST			0.01774	AT (	440427.01,	4246683.81	, 183.10,		0.00) DC	
	10TH	HIGHEST	VALUE	IS	0.06556 0.03169 0.02931 0.02730 0.02420 0.02346 0.02238 0.02101 0.01774 0.01552	AT (	440327.01,	4246633.81	, 184.80,	322.90,	0.00) DC	
1RX		HIGHEST					0.00,	0.00	, 0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
	TOTH	HIGHEST	VALUE	15	0.00000	AT (	0.00,	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00,	0.00,	0.00)	
2RX		HIGHEST			0.00000		0.00,	0.00 0.00 0.00	, 0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	, 0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00	0.00,		0.00)	
		HIGHEST			0.00000 0.00000 0.00000 0.00000 0.00000		0.00,	0.00 0.00 0.00 0.00 0.00	0.00,		0.00)	
	TOTH	HIGHEST	VALUE	IS	0.00000	AT (	0.00,	0.00	0.00,	0.00,	0.00)	
3RX		HIGHEST			0.00000		0.00,	0.00	, 0.00,		0.00)	
		HIGHEST			0.00000			0.00	0.00,		0.00)	
		HIGHEST			0.00000		0.00,	0.00		0.00,	0.00)	
		HIGHEST			0.00000			0.00	0.00,	0.00,	0.00)	
		HIGHEST			0.00000		0.00,	0.00	, 0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00 0.00 0.00	0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	, 0.00,		0.00)	
		HIGHEST			0.00000	AT (	0.00,	0.00	0.00,		0.00)	
		HIGHEST				AT (	0.00,		0.00,		0.00)	
	10TH	HIGHEST	VALUE	IS	0.00000	AT (	0.00,	0.00	, 0.00,	0.00,	0.00)	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

					命首	CONC	OF I	отн	ER IN	MIC	ROGRAM	IS/M**	3				命官		
GROUP I	D			_ A\	VERAGE	CONC		_		REC	EPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF T	TYPE	NETWORK GRID-ID
789RX	157	HIGHEST	VALUE	TC	0	04800	ΑТ	0	440327.	01	42460	33 81		173.10,	183.	90 (	0.00)	DC	
/ U.JKA		HIGHEST							440315.					173.10,	283.		0.00)	DC	
		HIGHEST				02936			440277.					173.10,	183.		(00.0	DC	
		HIGHEST				02466			440327.		42467			184.40,	284.		(00.0	DC	
	5TH	HIGHEST	VALUE	IS		02295			440377.	.01,	42467			183.70,	284.		(00.0	DC	
	6TH	HIGHEST	VALUE	IS		02246			440315.		42467			184.10,	284.		(00.0	DC	
		HIGHEST			0.	02243	AT	(	440615.		42468		,	173.10,	302.		(00.0)	DC	
		HIGHEST				02216			440619.		42468			173.10,	310.		(00.0)	DC	
		HIGHEST				02095			440327.		42466			183.20,	284.		(00.0	DC	
	10TH	HIGHEST	VALUE	IS	0.	02040	AT	(	440627.	.01,	42467	83.81	,	173.10,	311.	20,	0.00)	DC	
CPOINT		HIGHEST				04809			440327.					173.10,	183.		(00.0	DC	
		HIGHEST				04793			440315.					173.10,	283.		(00.0	DC	
		HIGHEST							440277.					173.10,	183.		(00.0	DC	
		HIGHEST				02466			440327.					184.40,	284.		(00.0	DC	
		HIGHEST				02295			440377.		42467			183.70,	284.		(00.0	DC	
		HIGHEST				02246 02243			440315.		42467 42468			184.10, 173.10,	284. 302.	70	(00.0	DC	
		HIGHEST				02216			440619.		42468			173.10,	310.		0.00)	DC	
		HIGHEST			0.	02270	AT	2	440327.		42466			183.20.	284.		0.00)	DC	
		HIGHEST				02040			440627		42467			173.10,	311.		0.00)	DC	
CEO03F	1st	HIGHEST	VALUE	TS	0	05291	ΔТ	r	439977.	01	42470	83 81		173.10.	184.	70 (	0.00	DC	
		HIGHEST				04155			440015.					173.10,	184.		(00.0	DC	
		HIGHEST				04123			440027.		42470			173.10,	184.		0.00)	DC	
	4TH	HIGHEST	VALUE	IS		03012			440077.		42470			173.10,	184.		(00.0	DC	
	5TH	HIGHEST	VALUE	IS	0.	02842	AT	Ĉ	439927.	.01.	42470	83.81		173.10,	185.	00.	(00,0	DC	
	6ТН	HIGHEST	VALUE	IS		02631			440027.		42468			183.70,	183.		(00.0	DC	
		HIGHEST				02600			440115.		42470			173.10,	184.	10, (	(00.0	DC	
		HIGHEST				02472			439915.		42471			173.10,	184.		(00.0	DC	
		HIGHEST				02458			440015.		42468			183.40,	183.		(00.0	DC	
	10TH	HIGHEST	VALUE	IS	0.	02407	AT	(	440077.	01,	42467	83.81	,	182.10,	284.	10,	0.00)	DC	
CPIVE		HIGHEST			0.	13645	AT	(	440327.		42469			173.10,	183.		0.00)	DC	
		HIGHEST				11536			440315.		42469			173.10,	283.		(00.0	DC	
		HIGHEST				07890			440277.		42469			173.10,	183.		(00.0	DC	
		HIGHEST			0.	06122	AT	5	440377.		42467			183.70,	284.		(00.0	DC	
		HIGHEST				05858			440415.		42467			183.30,	284.		0.00)	DC	
		HIGHEST				05806			440227.		42469			173.10,	183.		0.00)	DC	
		HIGHEST				05110			440427.		42466			183.10,	284.		(00.0	DC	
		HIGHEST				05068			440327.		42467			184.40,	284.		(00.0	DC	
		HIGHEST				04874			440377.		42466			183.40,	284.		(00.0	DC	
	TOTH	HIGHEST	VALUE	12	0.	04467	AF	(	440315.	οŏ,	42467	22.48	1	184.10,	284.	10,	0.00)	DC	





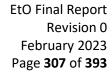
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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

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

					** CONC (	)F	OTH	ER IN	MI	CROGRAMS	S/M**	3				24.4		
GROUP ID					AVERAGE CONC				RE	CEPTOR	(XR,	YR	, ZELEV,	ZHILL,	ZFLAG	) OF	TYPE	NETWORK GRID-ID
				-		-	-		-			-						
CFUGIT	1ST	HIGHEST	VALUE	IS	0.15372	AT	(	440327.6	01,	42469	33.81		173.10,	183.	90,	0.00	) DC	
		HIGHEST						440315.1					173.10,	283.		0.00		
		HIGHEST			0.09737	AT	C	440277.0					173.10,	183.		0.00		
		HIGHEST			0.08031								173.10,	183.		0.00		
		HIGHEST			0.07257								183.70,	284.		0.00		
		HIGHEST						440415.					183.30,	284.		0.00		
		HIGHEST			0.06921	AT	è	439977.0	01.	42470			173.10.	184.		0.00		
		HIGHEST			0.06253	AT	è	440177.6	01.	424698			173.10,	183.		0.00		
		HIGHEST			0.06129	AT	è	440027.0	01.	42470			173.10,	184.		0.00		
		HIGHEST						440427.4					183.10,	284.		0.00		
							ैं											
COVESTRO	1ST	HIGHEST	VALUE	IS	0.20181	AT	(	440327.6	01,	42469	33.81	y.	173.10,	183.	90,	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.18061	AT	(	440315.1	58,	424692	22.48		173.10,	283.	60.	0.00	) DC	
	3RD	HIGHEST	VALUE	IS							33.81	,	173.10,	183.	90,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.09552	AT	(	440377.4	01,	42467	33.81	,	183.70,	284.	10,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.09038	AT	(	440415.1	68,	424677	22.48		183.30,	284.	10,	0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.08511	AT	(	440327.6	01,	42467	33.81		184.40,	284.	10,	0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.08119	AT	(	440227.0	01,	424698	83.81		173.10,	183.	90.	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.07906	AT	(	440427.6	01.	424668	83.81		183.10,	284.	10.	0.00	) DC	
	9ТН	HIGHEST	VALUE	IS	0.07719	AT	(	440377.6	01.	424668	83.81		183.40,	284.	10.	0.00	) DC	
		HIGHEST						440315.					184.10,	284.		0.00	) DC	
TE10813	1ST	HIGHEST	VALUE	IS	0.01229	AT	(	440227.0	01.	424643	33.81		204.60,	322.	90.	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.01188	AT	(	440215.1	68.	424642	22.48		204.20,	322.	90.	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.01127	AT	Ċ	440227.4	01,	424638	83.81		204.60,	322.	90,	0.00	) DC	
		HIGHEST									33.81		207.40,	284.	10.	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.01078	AT	Ò	440213.7	24.	42463			204.20,	323.		0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.01035	AT	(	440177.0	01.	424638	83.81	0	208.40,	322.	90.	0.00	) DC	
		HIGHEST			0.01011			440227.					208.90,	322.		0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.00971	AT	(	440277.4	01.	424638	83.81		209.10,	322.	90.	0.00	) DC	
		HIGHEST			0.00971 0.00953	AT	Ò	440177.0	01.	42463			204.70,	325.		0.00		
	10TH	HIGHEST	VALUE	IS	0.00913						33.81	,	209.30,	322.	90,	0.00	) DC	
_L_ALL	1ST	HIGHEST	VALUE	IS	0.01285	AT	(	440115.	68.	42470	22.48		173.10,	184.	10.	0.00	) DC	
		HIGHEST			0.00978								173.10,	184.		0.00		
		HIGHEST			0.00904					42469			173.10,	183.		0.00		
		HIGHEST						440127.0					173.10.	272.		0.00		
		HIGHEST			0.00812								173.10,	184.		0.00		
		HIGHEST						440077.0					173.10.	272.		0.00		
		HIGHEST											173.10,	183.		0.00		
		HIGHEST						440177.					173.10,			0.00		
		HIGHEST											173.10,	272.		0.00		
		HIGHEST						440227.0					173.10,	183.		0.00		
					3.00303					.2403.			2,5,20,	103.	50,	0.00	, ,,	

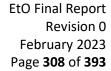




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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

			** CONC	OF OTH	HER IN MI	CROGRAMS/M**	*3		杂妆	
GROUP IC	)		AVERAGE CONC		RE	CEPTOR (XR	YR, ZELEV,	ZHILL, ZFLAG	) OF TYPE	NETWORK GRID-ID
T T 411	1ST HIGHES	T 1/41 HE T	s 0.0157	. AT (	440177.01,	4246983.83	L, 173.10,	183.90,	0.00) DC	
T_T_ALL	2ND HIGHES				440117.01,				0.00) DC	
	3RD HIGHES				440127.01.				0.00) DC	
	4TH HIGHES				440227.01,	4246983.83			0.00) DC	
	5TH HIGHES				440227.01,				0.00) DC	
	6TH HIGHES				440227.01.	4246783.83			0.00) DC	
	7TH HIGHES				440177.01.				0.00) DC	
	8TH HIGHES				440227.01.	4246733.83			0.00) DC	
	9TH HIGHES								0.00) DC	
	10TH HIGHES								0.00) DC	
T_POINT	1ST HIGHES	T VALUE I	s 0.0284	B AT (	440177.01.	4246983.83	L, 173.10,	183.90.	0.00) DC	
	2ND HIGHES	T VALUE I	s 0.0281	AT C		4247022.48			0.00) DC	
	3RD HIGHES	T VALUE I	s 0.0241	AT (	440127.01,	4246983.83	L, 173.10,	184.10,	0.00) DC	
	4TH HIGHES	T VALUE I			440227.01,				0.00) DC	
	5TH HIGHES	T VALUE I	s 0.0209	2 AT (	440227.01.	4246933.83	L. 173.10.	183.90.	0.00) DC	
	6TH HIGHES	T VALUE I	s 0.0186	3 AT (	440227.01.	4246783.83	183.70.	284.10.	0.00) DC	
	7TH HIGHES	T VALUE I	s 0.0174	AT (	440227.01,	4246433.83	L. 204.60.	322.90.	0.00) DC	
	8TH HIGHES	T VALUE I			440215.68,			322.90.	0.00) DC	
	9TH HIGHES	T VALUE I	s 0.0170	L AT (	440077.01.	4247033.83		184.70.	0.00) DC	
	10TH HIGHES	T VALUE I	s 0.0166	2 AT (	440277.01,	4246783.83			0.00) DC	
THE	1ST HIGHES				440127.01,				0.00) DC	
	2ND HIGHES				440177.01,				0.00) DC	
	3RD HIGHES				440077.01,				0.00) DC	
	4TH HIGHES							272.80,	0.00) DC	
	5TH HIGHES				440227.01,				0.00) DC	
	6TH HIGHES								0.00) DC	
	7TH HIGHES				440227.01,				0.00) DC	
	8TH HIGHES								0.00) DC	
	9TH HIGHES								0.00) DC	
	10TH HIGHES	T VALUE I	s 0.0035	AT (	440177.01,	4247333.83	L, 173.10,	272.80,	0.00) DC	
FRF	1ST HIGHES					4246983.83			0.00) DC	
	2ND HIGHES				440227.01,				0.00) DC	
	3RD HIGHES				440227.01, 440115.68.			183.90, 184.10.	0.00) DC 0.00) DC	
	4TH HIGHES									
	5TH HIGHES				440127.01, 440227.01.			184.10, 284.10.		
	7TH HIGHES					4246783.8.			0.00) DC 0.00) DC	
	8TH HIGHES				440277.01,				0.00) DC	
	9TH HIGHES				440277.01,				0.00) DC	
	10TH HIGHES				440177.01,				0.00) DC	
	TOTH HIGHES	VALUE I	5 0.0047.	LAIL	4401//.01,	4240/03.0.	L, 103.0U,	204.10,	0.00) DC	





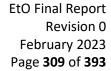
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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

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

					"" CONC	UF	UIF	HEK IN	MICKUGKA	MS/M""	3						
GROUP ID				_	AVERAGE CONC		-		RECEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	0	F TYPE	NETWORK GRID-IN
TFNC	1ST	HIGHEST	VALUE	TS	0.01614	ΔТ		440077.0	1 4247	283.81	1	73.10,	272.	80	0.0	0) DC	
		HIGHEST						440127.0		283.81		73.10,			0.0		
		HIGHEST								322.48		73.10,			0.0		
		HIGHEST								333.81		73.10.			0.0		
		HIGHEST								283.81		73.10,			0.0		
		HIGHEST						440027.0		333.81		73.10.			0.0		
		HIGHEST								322.48		73.10,			0.0		
		HIGHEST						439927.0		333.81		73.10,			0.0		
		HIGHEST								033.81		73.10,			0.0		
		HIGHEST						440227.0		283.81		73.10,			0.0		
					0.0000				-,					00,		,	
_FUGIT		HIGHEST								283.81		73.10,			0.0		
		HIGHEST								283.81		73.10,			0.0		
		HIGHEST						440177.0		283.81		73.10,			0.0		
	4TH	HIGHEST	VALUE	IS				440119.8		306.86		73.10,			0.0		
	5TH	HIGHEST	VALUE	IS						322.48		73.10,			0.0	<ol> <li>DC</li> </ol>	
	6ТН	HIGHEST	VALUE	IS	0.01465	AT	. (	440177.0	1, 4246	983.81	. 1	73.10,	183.	90,	0.0	0) DC	
	7TH	HIGHEST	VALUE	IS	0.01398	AT	. (	440227.0	1, 4246	983.81	. 1	73.10.	183.	90,	0.0	DC (0	
	8TH	HIGHEST	VALUE	IS	0.01368	AT	(	440227.0	1, 4247	283.81	. 1	73.10.	272.	80.	0.0	0) DC	
	9ТН	HIGHEST	VALUE	IS				440115.6	8. 4247	322.48	. 1	73.10.	305.	60.	0.0	0) DC	
	10TH	HIGHEST	VALUE	IS	0.01301	AT	(	439977.0	1, 4247	333.81	., 1	73.10,	327.	10,	0.0	0) DC	
RITON	1st	HIGHEST	VALUE	TS	0.04314	ΔΤ		440177.0	1 4246	983.81	1	73.10.	183.	90	0.0	0) DC	
ILL TOIL		HIGHEST								283.81		73.10,	272.		0.0		
		HIGHEST							8 4247	022.48	1	73.10,			0.0		
		HIGHEST								283.81		73.10,	272.		0.0		
		HIGHEST			0.03685	AT	. ?	440227.0	1 4246	983.81	· 1	73.10,	183.		0.0		
		HIGHEST								983.81		73.10,	184.		0.0		
		HIGHEST						440177.0		283.81		73.10,	272		0.0		
		HIGHEST								933.81		73.10,			0.0		
								440077.0									
		HIGHEST								033.81		73.10,			0.0		
	TOTH	HIGHEST	VALUE	15	0.02789	AI	(	440119.8	5, 4247	306.86	, т	73.10,	272.	80,	0.0	0) DC	
A_E70XP	1ST	HIGHEST	VALUE	IS	0.00000	AT	. (	0.0	0.	0.00	١.	0.00,	0.	00.	0.0	0)	
		HIGHEST				AT	(	0.0		0.00		0.00,		00.	0.0		
		HIGHEST						0.0		0.00		0.00.		00,	0.0		
		HIGHEST						0.0		0.00		0.00.		00.	0.0		
		HIGHEST						0.0		0.00		0.00,		00,	0.0		
		HIGHEST						0.0		0.00		0.00,			0.0		
		HIGHEST						0.0		0.00		0.00,		00.	0.0		
		HIGHEST						0.0		0.00		0.00,			0.0		
		HIGHEST						0.0		0.00		0.00,			0.0		
		HIGHEST						0.0		0.00		0.00,			0.0		
	TOLH	urauE21	VALUE	13	0.00000	AI	(	0.0	υ,	0.00	9	0.00,	U.	00,	0.0	0)	

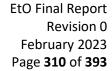




08/23/22

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

			** CONC OF	OTHER	IN MICRO	GRAMS/M**	3		**	
GROUP ID			AVERAGE CONC		RECEPT	FOR (XR,	YR, ZELEV,	ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
OA_TALLP	1ST HIGHEST 2ND HIGHEST 3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 9TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II	S 0.00800 A'S 0.00584 A'S 0.00545 A'S 0.00510 A'S 0.00503 A'S 0.00470 A'S 0.00467 A'S 0.00440 A'S 0.00	7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398	327.01, 42 315.68, 42 777.01, 42 377.01, 42 327.01, 42 363.24, 42 577.01, 42	246933.81, 246833.81, 246822.48, 246833.81, 246833.81, 246833.81, 246870.04, 246933.81, 246933.81,	184.90, 183.30, 183.00, 183.00, 183.10, 182.60, 184.50,	184.90, 183.30, 183.00, 183.00, 183.10, 182.60, 184.50, 184.20,	0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC	
OA_LALLP	1ST HIGHEST 2ND HIGHEST 3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 9TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II	S 0.00082 A S 0.00055 A S 0.00048 A S 0.00043 A S 0.00039 A S 0.00037 A S 0.00035 A S 0.00034 A S 0.00035 A	7 ( 4396 7 ( 4397 7 ( 4397 7 ( 4397 7 ( 4397 7 ( 4397 7 ( 4397 7 ( 4397	577.01, 42 713.24, 42 827.01, 42 727.01, 42 737.01, 42 715.68, 42 627.01, 42 777.01, 42	246933.81, 246870.04, 246833.81, 246833.81, 246833.81, 246822.48, 246833.81, 246833.81, 247133.81,	184.20, 183.20, 186.10, 183.20, 184.90, 183.10, 183.80, 183.00,	184.20, 183.20, 186.10, 183.20, 184.90, 183.10, 183.80, 183.00, 184.50,	0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC	
OA_POINT	1ST HIGHEST 2ND HIGHEST 3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 8TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II	S 0.00838 A 0.00604 A 0.00566 A 0.00544 A 0.00524 A 0.00523 A 0.00489 A 0.00487 A	7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398	377.01, 42 327.01, 42 315.68, 42 777.01, 42 377.01, 42 377.01, 42 327.01, 42 327.01, 42 327.01, 42	246933.81, 246933.81, 246833.81, 246833.81, 246833.81, 246833.81, 246933.81, 246783.81, 246870.04,	184.90, 183.30, 183.00, 183.00, 183.10, 184.20, 182.60, 184.50,	184.90, 183.30, 183.00, 183.00, 183.10, 184.20, 182.60, 184.50,	0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC	
OAHR2F	1ST HIGHEST 2ND HIGHEST 3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 8TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II VALUE II	S 0.07902 A' S 0.07310 A' S 0.07060 A' S 0.05893 A' S 0.05780 A' S 0.05557 A' S 0.05264 A' S 0.04125 A'	7 ( 4397 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4398 7 ( 4399 7 ( 4399	727.01, 42 927.01, 42 937.01, 42 977.01, 42 9327.01, 42 915.68, 42 977.01, 42 9015.68, 42	247133.81, 247183.81, 247083.81, 247133.81, 247183.81, 247122.48, 247083.81, 247022.48, 247022.48,	173.10, 173.10, 173.10, 173.10, 186.10, 173.10, 173.10, 173.10,	311.00, 185.00, 184.90, 184.40, 186.10, 184.60, 184.70, 184.90,	0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC 0.00) DC	



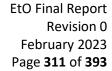


\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

\*\* CONC DE OTHER IN MICROGRAMS/M\*\*3

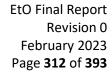
		常作						3	Man:	MS/I	CROGRAM	N MI	R I	OTHE	OF (	" CONC	ste ste					
NETWORK	TYPE	OF	ZFLAG)	LL,	ZHIL	LEV,	, ZEL	YR,	XR,	(	CEPTOR	RE				E CONC	AVERAGE					GROUP ID
										-												
DC	) DC	.00)	o. c	84.2	18	.20.	184.		. 81	933	42469	.01.	439677	(	5 AT	0.05426	0	TS	VALUE	HIGHEST	1ST	DAR45F
DC		.00)		83.0			183.				42468		439777			0.05250	0			HIGHEST		
DC		.00)		83.2			183.				42468		439713	è.	AT.	0.05232	0			HIGHEST		
DC		.00)		84.9			184.				42469		439877			0.05053				HIGHEST		
DC		.00)		83.2			183.						439727			0.04691	ň			HIGHEST		
DC		.00)		84.4			173.						439777			0.04671	ñ			HIGHEST		
DC		.00)		86.1			186.									0.04670	ñ			HIGHEST		
DC		.00)		85.0			173.				42470					0.04488	ő			HIGHEST		
DC		.00)		83.0			183.									0.04388	ő			HIGHEST		
DC		.00)		82.1			182.									0.04265	ň			HIGHEST		
DC	, ,,	.00)	, 0	32.1	10	. 10,	102.	t .	. O.T.	103	4240	. 01,	433111		) AI	0.04203	U	13	VALUE	HIGHEST	TOTH	
DC	) DC	.00)	o. C	84.2	18	.20.	184.		.81	933	42469	.01.	439677	(	TA C	0.01540	0	IS	VALUE	HIGHEST	1ST	AR6F
DC	) DC	.00)	). C	86.1	18	.10.	186.									0.01465	0			HIGHEST		
DC	) DC	.00)	). C	83.2			183.		.04	870						0.01406	0	IS	VALUE	HIGHEST	3RD	
DC	) DC	.00)		84.9			184.									0.01292	0	IS	VALUE	HIGHEST	4TH	
DC		.00)		83.0			183.									0.01275	0			HIGHEST		
DC		(00)		83.2			183.				42468	.01.	439727	Č.	LAT	0.01221	0			HIGHEST		
DC		.00)		83.1			183.				42468					0.01052	0			HIGHEST		
DC		.00)		82.1			182.				4246		439777			0.01033	ñ			HIGHEST		
DC		.00)		83.0			183.									0.00976	0			HIGHEST		
DC		.00)		83.3			183.						439827			0.00914				HIGHEST		
DC	) DC	.00)	0 0	86.1	1.8	10	186.		81	933	42469	01	439827	۲.	) ДТ	0.00620	0	TS	VALUE	HIGHEST	1st	AR7F
DC		(00)		85.0		10	173.						439827			0.00545				HIGHEST		,,,,,,,
DC		.00)		84.9			184.						439877	è	) AT	0.00532	ň			HIGHEST		
DC		.00)		83.0			183.									0.00506				HIGHEST		
DC		.00)		83.3			183.				42468					0.00500				HIGHEST		
DC		.00)		83.0			183.				42468					0.00497				HIGHEST		
DC		.00)		85.0			173.				42470		439927			0.00460				HIGHEST		
DC		.00)		84.9			173.				4247					0.00453				HIGHEST		
DC		.00)		82.6			182.				4246		439827			0.00433				HIGHEST		
DC		.00)		84.9			173.				4247		440015			0.00421				HIGHEST		
DC	) DC	.00)	<i>J</i> , 0	54.9	TO	. 10,	1/3.	,	.40	UZZ	424/	. 00 ,	440013	( '	AI	0.00417	U	15	VALUE	HIGHEST	TOTH	
DC	) DC	.00)	o. c	27.1	32	.30.	180.		. 86	306	4247	.85.	439619	0	ō AT	0.21146	0	IS	VALUE	HIGHEST	1ST	AWTILF
DC		.00)		27.1			173.				4247		439477			0.07213				HIGHEST		
DC		.00)		27.1			173.				4247		439427			0.06269				HIGHEST		
DC		.00)		27.1			173.				4247		439627			0.06049				HIGHEST		
DC																	0	TS	VALUE.	HIGHEST	5TH	
DC																	ñ	TS	VALUE	HIGHEST	6TH	
														è.	ΔT	0.05347	ñ	TS	VALUE	HIGHEST	7TH	
														2	) AT	0.05110	ñ	TS	VALUE	HIGHEST	8T⊔	
																	n	TS	VALUE	HIGHEST	9TH	
																	0	TC	VALUE	UTCHEST	10TH	
UC	, DC	.00)	, 0	c/.1	32	.00,	1/3.		. oT	233	424/	· UI,	4394//	( ,	JAI	0.045/0	U	12	VALUE	uTduE21	TOTH	
	) DC ) DC ) DC	.00) .00) .00) .00)	0, 0 0, 0 0, 0 0, 0	27.1 27.1 27.1 27.1 27.1 27.1	32 32 32 32	.00, .00, .00,	173. 173. 173. 173. 173. 173.	· · ·	.48 .81 .81 .48	222 283 233 222	42477 42477	.68, .01, .01,		000	1 AT 2 AT 3 AT 7 AT	0.05697 0.05571 0.05342 0.05110 0.04577 0.04570	0 0 0	IS IS IS	VALUE VALUE VALUE	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	6TH 7TH 8TH 9TH	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

					sir str	CONC	OF	OTHE	R I	N MI	CROGRAM	IS/M**	3			分价		
GROUP ID					AVERAGE	CONC				RE	CEPTOR	(XR.	YR, ZELEV,	ZHILL.	ZFLAG)	OF	TYPE	NETWORK GRID-ID
DALIBE	1ST	HIGHEST	VAI IIE	TS	0.	14948	AT	(	439777	.01	42471	83.81	, 173.10,	184.	40.	0.00)	DC	
		HIGHEST							439827			133.81				0.00)		
		HIGHEST				04767			439715			22.48				0.00)		
		HIGHEST				03556			439727			83.81				0.00)		
		HIGHEST				03378			439877			133.81		184.		0.00)		
		HIGHEST				02615			439915			22.48		184.		0.00)		
	7TH	HIGHEST	VALUE	IS	0.	02219	AT	(	439677	.01		233.81	, 173.10,	327.	10,	0.00)	DC	
	8TH	HIGHEST	VALUE	IS	0.	01854	AT	(	439927	.01,	42470	83.81	, 173.10,	185.	.00,	(00.0)	DC	
	9TH	HIGHEST	VALUE	IS					439977		42470	083.81	, 173.10,	184.		(00.0)	DC	
	10TH	HIGHEST	VALUE	IS	0.	01525	AT	(	439827	.01,	42473	33.81	, 173.10,	327.	10,	0.00)	DC	
A_FUGIT		HIGHEST			0. 0. 0. 0. 0. 0. 0.	28973	AT	(	439777	.01	42471	183.81				0.00)		
		HIGHEST			0.	26195	AT	(	439619	.85,	4247	306.86				0.00)		
		HIGHEST			0.	23279	AT	(	439827	.01,	42471	133.81				0.00)		
		HIGHEST			0.				439727			183.81				0.00)		
		HIGHEST			0.	16369			439877			133.81	, 173.10,			0.00)		
		HIGHEST			0.				439715			22.48		327.		0.00)		
		HIGHEST			0.				439927			83.81		185.		0.00)		
		HIGHEST			0.				439827			33.81		186.		0.00)		
		HIGHEST			0.				439915			122.48		184.		0.00)		
	TOTH	HIGHEST	VALUE	15	0.	13312	AI	(	439677	.01,	42472	233.81	, 173.10,	327.	10,	0.00)	DC	
A_ALL		HIGHEST									42471			184.		0.00)		
		HIGHEST				26354			439619			306.86	, 180.30,		10,	0.00)		
		HIGHEST							439827			133.81		185.		0.00)		
		HIGHEST			0.	18931	AT	(	439727			183.81	, 173.10,	311.		0.00)		
		HIGHEST			0.	16764	AT	(	439877			133.81				0.00)		
		HIGHEST				16565			439927			083.81				0.00)		
		HIGHEST				16552			439715			22.48		327.		0.00)		
		HIGHEST							439827			33.81				0.00)		
		HIGHEST							439915			122.48				0.00)		
	TOTH	HIGHEST	VALUE	IS	0.	14106	AT	(	439877	.01,	4246	33.81	, 184.90,	184.	.90,	0.00)	DC	
ICC_SC		HIGHEST			0.	30032	AT	(	439777	.01,	42471	183.81		184.		0.00)		
		HIGHEST				26833			439619			306.86				0.00)		
		HIGHEST				24628			439827			133.81		185.		0.00)		
		HIGHEST				19543			439727			183.81		311.		0.00)		
		HIGHEST				17886			439877			133.81		184.		0.00)		
		HIGHEST				17785			439927			083.81		185.		0.00)		
		HIGHEST				17143			439715			22.48				0.00)		
		HIGHEST				16577			439827			33.81				0.00)		
		HIGHEST							439915			122.48				0.00)		
	TOTH	HIGHEST	VALUE	IS	0.	14796	AT	(	439877	.01,	42469	33.81	, 184.90,	184.	90,	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 I	D A	VERAGE CONC	RECEPTOR (X	R, YR, ZELEV, ZHILL,	ZFLAG) OF TYPE GRID-I	
ALL	1ST HIGHEST VALUE IS	0.31951 AT ( 43	3777.01, 4247183.	81, 173.10, 184.	40, 0.00) DC	
	2ND HIGHEST VALUE IS	0.28090 AT ( 43	9619.85, 4247306.	86, 180.30, 327.	10, 0.00) DC	
	3RD HIGHEST VALUE IS	0.27111 AT ( 44	327.01, 4246933.	81, 173.10, 183.	90, 0.00) DC	
	4TH HIGHEST VALUE IS	0.26789 AT ( 43	9827.01, 4247133.	81, 173.10, 185.	00, 0.00) DC	
	5TH HIGHEST VALUE IS	0.24805 AT ( 446	315.68, 4246922.	48, 173.10, 283.	60, 0.00) DC	
	6TH HIGHEST VALUE IS	0.21946 AT ( 43	9927.01, 4247083.	81, 173.10, 185.	00, 0.00) DC	
	7TH HIGHEST VALUE IS	0.21427 AT ( 43	9977.01, 4247083.	81, 173.10, 184.	70, 0.00) DC	
	8TH HIGHEST VALUE IS	0.21139 AT ( 43	9727.01, 4247183.	81, 173.10, 311.	00, 0.00) DC	
	9TH HIGHEST VALUE IS	0.20636 AT ( 444	0277.01, 4246783.	81, 183.80, 284.	10, 0.00) DC	
	10TH HIGHEST VALUE IS	0.20483 AT ( 43	9877.01, 4247133.	81, 173.10, 184.	90, 0.00) DC	

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





#### February Monitoring Event AERMOD Summary File: Institute

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*** 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 MRY 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

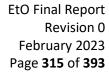
* Model Assumes No FLAGPOLE Receptor Heights.

* The User Specified a Pollurant Type of: OTHER
**Model Calculates PERIOD Averages Only
**This Run Includes: 26 Source(s);
                                                                        21 Source Group(s); and 15537 Receptor(s)
                                       7 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
19 VOLUME SOURCE(s)
0 AREA type source(s)
0 LINE source(s)
0 RLINE(RLINEXT source(s)
0 DEMPHIT source(s)
0 BUNYANT LINE source(s)
0 BUNYANT LINE source(s)
0 SWPOINT source(s)
                         with:
                           and:
and:
**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)
**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
**Approximate Storage Requirements of Model =
                                                                                  14.6 MB of RAM.
**Input Runstream File:
**Output Print File:
**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

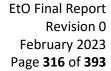




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

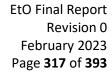
\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,





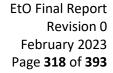
F indicates top of profile (=1) or below (=0)





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

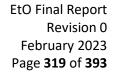
					Str Mr	CONC	OF I	отні	ER I	N MI	CROGRAM	IS/M**	3				**		
GROUP ID					AVERAGE	CONC		_		REG	CEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF -	TYPE	NETWORK GRID-ID
EODISTFL	1ST	HIGHEST	VALUE	TS	n.	23045	ΔТ	r	431292	99	42493	80.00		216.30,	328.	30 (	(00.0	DC	
LODIDIIL		HIGHEST							431442					215.90,			(00.0	DC	
		HIGHEST			0.	18292	AT	C	431331	.66,	42494			214.90,	328.		(00.0	DC	
	4TH	HIGHEST	VALUE	IS	0.	16083	AT	(	431292	.99,				214.30,	328.	30, (	(00.0	DC	
	5TH	HIGHEST	VALUE	IS	0.	15438	AT	(	431342		42494			214.50,	328.		(00.0	DC	
		HIGHEST			0.				431242					216.00,	328.		(00.0	DC	
		HIGHEST			0.	10011	AT	(	431492	.99,	42493		,	215.60,	328.		(00.0	DC	
		HIGHEST			0.				431392					216.00,	328.		(00.0	DC	
		HIGHEST			0.				431392					213.90,	328.		(00.0	DC	
	10TH	HIGHEST	VALUE	IS	0.	09084	AT	(	431192	.99,	42493	30.00	,	219.20,	328.	30,	(00.0	DC	
EODPOINT		HIGHEST			0.				431292				,	216.30,	328.		(00.0	DC	
		HIGHEST			0.				431442				,	215.90,	328.		(00.0	DC	
		HIGHEST			0.				431331					214.90,			(00.0	DC	
		HIGHEST			0.				431292					214.30,	328.		(00.0	DC	
		HIGHEST			0.				431342					214.50,			(00.0	DC	
		HIGHEST			o.				431242		42493			216.00,	328.		(00.0	DC	
		HIGHEST			0.	09909			431492 431392		42493			215.60,	328.		(00.0	DC	
		HIGHEST			0.				431392		42494 42494			216.00, 213.90,	328. 328.		(00.0	DC	
		HIGHEST			0. 0. 0. 0. 0. 0.	09084	AT	ć	431192	.99,	42493			219.20,			(00.0	DC	
EODRAILF	157	HIGHEST	VALUE	TC	0	12744	<b>AT</b>	r	431292	00	42492	30 00		184.70,	328.	20 (	(00.0	DC	
EUDKAILF		HIGHEST			0.				431331					184.50.			(00.0	DC	
		HIGHEST							431292				,	193.20,	328.	30	(00.0	DC	
		HIGHEST			0.				431342					184.80.			(00.0	DC	
		HIGHEST			ő.	10969	AT	è	431242	.99	42492	30.00		184.40,	328.		(00.0	DC	
		HIGHEST			Ö.	09731			431386					182.00,	328		(00,0	DC	
		HIGHEST			0.	09730	AT	è	431231	. 66 .	42492			183.90,	328.		(00.0	DC	
		HIGHEST			0.				431242					196.50.	328.		(00.0	DC	
		HIGHEST			0.				431342					189.50,	328.		(00.0	DC	
	10TH	HIGHEST	VALUE	IS	0.				431192			30.00	,	183.80,	328.	30,	(00.0	DC	
EODPUMPF	1ST	HIGHEST	VALUE	IS	0.	25801	AT	C	431331	.66.	42492	18.67	,	184.50,	328.	30, (	(00.0	DC	
	2ND	HIGHEST	VALUE	IS	0.	24851	AT	(	431292	.99.	42492	80.00	,	193.20,			(00.0	DC	
	3RD	HIGHEST	VALUE	IS	0.	24144	AT	(	431342	.99,	42492			184.80,	328.		(00.0	DC	
		HIGHEST							431292		42492		,	184.70,	328.	30, (	(00.0	DC	
		HIGHEST				18832			431342		42492			189.50,	328.		(00.0	DC	
		HIGHEST							431242					196.50,		30, (	(00.0	DC	
		HIGHEST				15468			431392					184.60,			(00.0	DC	
		HIGHEST			0.	15165	AT	(	431386	.12,	42489			182.00,			(00.0	DC	
		HIGHEST							431242					184.40,			(00.0	DC	
	TOTH	HIGHEST	VALUE	IS	0.	11287	AT	(	431231	.66,	42493	18.67	,	212.50,	328.	30, (	(00.0	DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

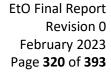
					str str	CONC (	OF (	отні	ER I	IM N.	CROGRAM	IS/M**	3				**		
GROUP ID					AVERAGE	CONC		_		RE	CEPTOR	(XR,	YR,	ZELEV,	ZHILL	ZFLAG)	OF	TYPE	NETWORK GRID-ID
ODTANKE	1ST	HIGHEST	VALUE	TS	0	14009	ΔТ	r	431331	66	42492	18 67		184.50,	328	30	0.00)	DC	
OD TAING		HIGHEST		TS	0.	13376	AT	ć	431292	. 99	42492			184.70,			0.00)		
		HIGHEST		TS	0.	13362	AT	ć	431386	. 12	42489			182.00.	328		0.00)		
		HIGHEST		IS	0.	12704	AT	è	431342	.99	42492			184.80,			0.00		
		HIGHEST		IS	0.	12465	AT	è	431292	.99.	42492			193.20,	328		0.00)		
		HIGHEST		IS	0.	09900	AT	è	431242	.99.	42492			184.40.	328.		0.00)		
		HIGHEST		IS	0.	09208	AT	è	431342	.99.	42492			189.50,	328.		0.00		
	8TH	HIGHEST	VALUE	IS	0.	08785	AT	Ċ	431242	.99.	42492			196.50.	328.	30.	0.00	DC	
	9TH	HIGHEST	VALUE	IS	0.	08452	AT	Č	431231	66,	42492	18.67		183.90,	328.	30,	0.00)	DC	
		HIGHEST		IS	0. 0. 0. 0. 0. 0.	08247	AT	(	431392	.99,	42492	30.00	,	184.60,	328	30,	0.00)	DC	
ODFLARF	1st	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.	04372	AT	(	431431	.66,	42492	18.67	,	184.40,			0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.				431392				,	184.60,	328.		0.00)		
	3RD	HIGHEST	VALUE	IS	0.				431392					190.70,			0.00)		
	4TH	HIGHEST	VALUE	IS	0.	03876	AT	(	431342	. 99,	42492			189.50,	328		0.00)		
	5TH	HIGHEST	VALUE	IS	0.				431442					185.00,			0.00)		
	6ТН	HIGHEST	VALUE	IS	0.				431386					182.00,	328		0.00)		
	7TH	HIGHEST	VALUE	IS	0.				431342					184.80,	328		0.00)		
	8TH	HIGHEST	VALUE	IS	0.				431331					200.90,	328		0.00)		
	9тн	HIGHEST	VALUE	IS	0.				431292					193.20,	328		0.00)		
	10TH	HIGHEST	VALUE	IS	0.	02226	AT	(	431333	66,	42492	18.67	,	184.50,	328	.30,	0.00)	DC	
ODR25F		HIGHEST									42492			186.20,			0.00)		
		HIGHEST			0.				431792					186.20,			0.00)		
		HIGHEST			0.				431842					186.80,			0.00)		
		HIGHEST			Ü.	02571	AI	5	431792	. 99,	42492			187.80,	328.		0.00)		
		HIGHEST			Ů.				431742					190.90,			0.00)		
		HIGHEST			0.				431892					187.60, 187.70.			0.00)		
		HIGHEST			0.				431931								0.00)		
		HIGHEST			o.				431742					186.00,	328 326		(00.0 (00.0		
		HIGHEST			0.	01343	AT	5	431942	00,	42492			187.60,			0.00)		
	TOTH	HIGHEST	VALUE	15	0.	01391	AI	(	431942	.99,	42492	30.00	,	107.00,	320	. 50,	0.00)	DC	
ODFUGI		HIGHEST							431333					184.50,	328.		0.00)		
		HIGHEST			0.	50980	AT	(	431292	.99,	42492			193.20,			0.00)		
		HIGHEST							431342					184.80,	328		0.00)		
		HIGHEST							431292		42492			184.70,	328		0.00)		
		HIGHEST				41821			431386					182.00,			0.00)		
		HIGHEST							431342					189.50,			0.00)		
		HIGHEST				36088			431242					184.40,			0.00)		
		HIGHEST							431392					184.60,			0.00)		
		HIGHEST							431242					196.50,			0.00)		
	TOTH	HIGHEST	VALUE	15	0.	30548	AT	(	431231	66,	42492	18.67		183.90,	328	30,	0.00)	DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

			97.16	CONC	OF OT	HER	IN	MIC	ROGRAM	S/M**	3				命令		
GROUP I	D		AVERAGE	CONC			- Ann -1270-4	REC	EPTOR	(XR,	YR,	ZELEV,	ZHILL	, ZFLAG	) OF	TYPE	NETWORK GRID-ID
											-						
EODIST	1ST HIGHES 2ND HIGHES		IS (	.55432 .51875					42492 42492			184.50, 193.20,	328 328		0.00)	DC	
			15 (												0.00)	DC	
	3RD HIGHES 4TH HIGHES		15 (	.51796 .51317			1342.		42492 42492			184.80, 184.70,	328 328		0.00)	DC	
	5TH HIGHES		15 (	.41868			1386.		42492			182.00,	328		0.00)	DC	
	6TH HIGHES		15 0	.40753			1342.		42492			189.50.	328		0.00)	DC	
	7TH HIGHES		15 (	. 36880					42492			184.40.	328		0.00)	DC	
	8TH HIGHES		TS C	. 36065					42492			184.60,	328		0.00)	DC	
	9TH HIGHES		TS C	.35403					42493			216.00,	328		0.00)	DC	
	10TH HIGHES			.34849			1242.		42492			196.50,	328		0.00)	DC	
21A	1ST HTGHES	T VALUE	rs n	.07425	AT (	43	0992	99.	42493	30.00		233.00,	328	30	0.00)	DC	
	2ND HTGHES	T VALUE	TS C	.06957			1192.		42493			235.60,	328		0.00)	DC	
	3RD HIGHES	T VALUE	IS C	.06433					42493			229.30,	328		0.00)	DC	
	4TH HIGHES	T VALUE	is (	.06146					42493			239.70,	328		0.00)	DC	
	5TH HIGHES	T VALUE	is 0	.06030					42493			234.70.	328		0.00)	DC	
	6TH HIGHES	T VALUE	is 0	.05318	AT (	43	1092.	99.	42493	80.00		243.20,	328	.30.	0.00)	DC	
	7TH HIGHES	T VALUE	is 0	.04546			0892.		42493			234.70.	328		0.00)	DC	
	8TH HIGHES	T VALUE	is 0	.04202	AT (	43	1042.	99,	42493	80.00	,	247.70,	328	.30,	0.00)	DC	
	9TH HIGHES	T VALUE	is (	.04181					42493	80.00	,	231.00,	328	.30,	0.00)	DC	
	1ST HIGHES 2ND HIGHES 3RD HIGHES 4TH HIGHES 5TH HIGHES 6TH HIGHES 7TH HIGHES 8TH HIGHES 9TH HIGHES	T VALUE	is 0	.03683	AT (	43	1031.	66,	42493	18.67	,	226.10,	328	.30,	0.00)	DC	
30M	1ST HIGHES		is 0	.17436			1792.		42481			172.80,	314		0.00)	DC	
	2ND HIGHES		is 0	.16869			1931.		42481			180.80,	314		0.00)	DC	
	3RD HIGHES		is (	.15126					42482			180.80,	314		0.00)	DC	
	4TH HIGHES		is 0	.14631	AT (	43	1692.	99,	42482		,	180.70,	180		0.00)	DC	
	5TH HIGHES		IS (	.14324					42481			173.50,	314		0.00)	DC	
	6TH HIGHES		IS (	.13575					42480			172.80,	314		0.00)	DC	
	7TH HIGHES		IS C	.13472					42481			172.80,	314		0.00)	DC	
	8TH HIGHES		IS C	.12902	AT (	43	1631.		42482			172.80,	317		0.00)	DC	
	9TH HIGHES		is (	.12877					42480			172.80,	314		0.00)	DC	
	10TH HIGHES			.12844	AT (	43	1692.	99,	42480	80.00	,	172.80,	314	.60,	0.00)	DC	
30L	1ST HIGHES 2ND HIGHES 3RD HIGHES 4TH HIGHES 5TH HIGHES 6TH HIGHES 7TH HIGHES 8TH HIGHES 9TH HIGHES 10TH HIGHES	T VALUE	is (	.83531			1792.		42481			172.80,	314		0.00)	DC	
	2ND HIGHES	T VALUE	IS (	.77665			1931.		42481			180.80,	314		0.00)	DC	
	3RD HIGHES	T VALUE	is (	.71611			1731.		42482			180.80,	314		0.00)	DC	
	4TH HIGHES	T VALUE	IS C	.69671	AT (	43	1842.		42481			173.50,	314		0.00)	DC	
	5TH HIGHES	T VALUE	15 (	.68712			1692.		42482			180.70,	180		0.00)	DC	
	6TH HIGHES	T VALUE	IS (	.65635					42481			172.80,	314		0.00)	DC	
	/IH HIGHES	I VALUE	15 (	.62560	Af (	43	1892.	99,	42480			172.80,	314		0.00)	DC	
	81H HIGHES	VALUE	15 (	.60360					42480			172.80,	314		0.00)	DC	
	9TH HIGHES	VALUE	15	. 59660					42482			176.60,	181		0.00)	DC	
	10TH HIGHES	I VALUE	12 (	.59384	Af (	43	18/9.	22,	42480	66.23	,	172.80,	314	. 60,	0.00)	DC	



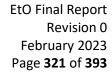


\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

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

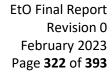
					St th	CONC	OF	OTHE	R I	N M	ECROGRAM	IS/M**	3				St. W.		
GROUP	ID				AVERAGE	CONC				RE	ECEPTOR	(XR,	YR,	ZELEV	, ZHILL	, ZFLAG)	) OF	TYPE	NETWORK GRID-ID
				-									-						
230K	1ST	HIGHEST	VALUE	IS	0.	.17318	AT	(	431792	.99	42481	130.00	,	172.80	314	.60,	0.00		
	2ND	HIGHEST	VALUE	IS	0.	.15500	) AT	(	431842	. 99.	42481	130.00	,	173.50	314		0.00		
	3RD	HIGHEST	VALUE	IS	0.	.15468	AT	. (	431731	. 66	42482	218.67	,	180.80	314	.60,	0.00		
	4TH	HIGHEST	VALUE	IS	0.	.14906	AT	. (	431692	. 99	42482	230.00	,	180.70	180	.70,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.	.14552	AT	. (	431831	. 66	42481	18.67	,	172.80	314		0.00		
	6ТН	HIGHEST	VALUE	IS	0.	.12901	LAT	(	431742	. 99	42480	00.08	,	172.80	314	.60,	0.00		
	7TH	HIGHEST	VALUE	IS	0.	.12781	LAT	. (	431931	. 66	, 42481	18.67	,	180.80	314	.60,	0.00		
	8TH	HIGHEST	VALUE	IS	0.	.12634	AT	(	431592	. 99	, 42481	180.00	,	172.80	314	.60,	0.00		
	9TH	HIGHEST	VALUE	IS	0.	.12574	AT	(	431642	. 99.	42482	230.00	,	176.60			0.00		
	10TH	HIGHEST	VALUE	IS		.12213	AT	. (	431642	. 99	, 42481	180.00	,	172.80	314	.60,	0.00	) DC	
300	1st	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0. 0.	01057	AT	(	431431	. 66	42493	318.67	,	211.40	328		0.00		
	2ND	HIGHEST	VALUE	IS	0.	.00876	AT	(	431842	. 99	, 42481	130.00	,	173.50	, 314		0.00		
	3RD	HIGHEST	VALUE	IS	0.	.00855	AT	. (	431592	. 99	, 42493	30.00	,	212.20	328		0.00		
	4TH	HIGHEST	VALUE	IS	0.	.00849	AT	(	431892	. 99	, 42481	130.00	,	180.70	314		0.00		
	5TH	HIGHEST	VALUE	IS	0.	.00811	L AT	(	431831	. 66	42481	18.67	,	172.80	314	.60,	0.00		
	6ТН	HIGHEST	VALUE	IS	0.	.00796	AT	. (	431792	. 99	42481	130.00	1	172.80		.60,	0.00		
	7TH	HIGHEST	VALUE	IS	0.	.00775	AT	. (	431629	. 22.	42493	316.23	,	211.40	326	.50,	0.00		
	8TH	HIGHEST	VALUE	IS	0.	.0076	AT	(	431631	. 66	42493	318.67	,	211.80		.50,	0.00		
	9TH	HIGHEST	VALUE	IS	0.	.00760	) AT	(	431392	. 99	, 42494	130.00	,	213.90		.30,	0.00		
	10TH	HIGHEST	VALUE	IS	0.	.006/2	AT.	(	431742	. 99,	, 42480	00.00	,	172.80	314	. 60,	0.00	) DC	
30HH	1ST	HIGHEST	VALUE	IS	0.	.00000	) AT	(	0	.00		0.00	,	0.00	. 0		0.00		
	2ND	HIGHEST	VALUE	IS	0.	.00000	) AT	. (	0	.00		0.00	,	0.00		.00,	0.00		
	3RD	HIGHEST	VALUE	IS	0.	.00000	) AT	. (	0	.00		0.00	,	0.00		.00,	0.00		
	4TH	HIGHEST	VALUE	IS	0.	.00000	) AT	(	0	.00.	,	0.00	,	0.00		.00,	0.00		
	5TH	HIGHEST	VALUE	IS	0.	.00000	AT	. (	0	.00		0.00	,	0.00	. 0		0.00		
	6ТН	HIGHEST	VALUE	IS	0.	.00000	AT	(	0	.00		0.00	,	0.00		.00,	0.00		
	7TH	HIGHEST	VALUE	IS	0.	.00000	) AT	(	0	.00		0.00	,	0.00			0.00		
	8TH	HIGHEST	VALUE	IS	0.	.00000	AT	. (	0	.00		0.00	,	0.00		.00,	0.00		
	9TH	HIGHEST	VALUE	IS	0.	.00000	) AT	Ċ	0	.00	,	0.00	,	0.00		.00,	0.00		
	10TH	HIGHEST	VALUE	IS		.00000	) AT	(	-		,		,	0.00	. 0	.00,	0.00	)	
POINT	1ST	HIGHEST	VALUE	IS	1. 1. 1. 0. 0. 0. 0. 0.	19085	AT	(	431792	. 99	42481	130.00	,	172.80		.60,	0.00		
	2ND	HIGHEST	VALUE	IS	1.	.07850	AT	(	431931	. 66	42481	18.67	,	180.80	314	.60,	0.00		
	3RD	HIGHEST	VALUE	IS	1.	.02701	L AT	(	431731	. 66	42482	18.67	,	180.80		.60,	0.00		
	4TH	HIGHEST	VALUE	IS	1.	.00374	AT	(	431842	. 99	42481	130.00	,	173.50	314	.60,	0.00		
	5TH	HIGHEST	VALUE	IS	0.	.98706	AT	(	431692	. 99,	, 42482	30.00	,	180.70	180	.70,	0.00		
	6TH	HIGHEST	VALUE	IS	0.	9447	AT	(	431831	. 66	42481	18.67	,	172.80	314		0.00		
	7TH	HIGHEST	VALUE	IS	0.	.86701	AT	(	431892	. 99	42480	00.08	,	172.80	314		0.00		
	8TH	HIGHEST	VALUE	IS	0.	86486	AT	(	431742	. 99	42480	00.080	,	172.80			0.00		
	9тн	HIGHEST	VALUE	IS	0.	.85373	AT	(	431642	. 99	42482	30.00	,	176.60			0.00		
	TOTH.	HIGHEST	VALUE	IS	0.	83469	AT	(	431592	. 99	42481	180.00	,	172.80	314	.60,	0.00	) DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

			** CONC OF OTH	HER IN MI	CROGRAMS/M**	3		<b>分</b> 金	
GROUP ID			AVERAGE CONC	RE	CEPTOR (XR,	YR, ZELEV,	ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
POLYVOL1	1ST HIGHEST	VALUE IS	0.03263 AT (	431892.99,	4248130.00	, 180.70,	314.60,	0.00) DC	
	2ND HIGHEST				4248180.00			0.00) DC	
	3RD HIGHEST				4248218.67			0.00) DC	
	4TH HIGHEST			431931.66,	4248118.67			0.00) DC	
	5TH HIGHEST				4248230.00			0.00) DC	
	6TH HIGHEST				4248130.00			0.00) DC	
	7TH HIGHEST 8TH HIGHEST				4249280.00 4248180.00			0.00) DC 0.00) DC	
	9TH HIGHEST							0.00) DC	
	10TH HIGHEST							0.00) DC	
	TOTH HIGHEST	VALUE I	0.02048 AT (	431332.33,	4243200.00	, 190.70,	320.30,	0.00) DC	
PBL8389	1ST HIGHEST	VALUE TO	0.00730 AT (	431731.66.	4248218.67	. 180.80.	314.60.	0.00) DC	
	2ND HIGHEST							0.00) DC	
	3RD HIGHEST	VALUE IS	0.00702 AT (	431692.99,	4248230.00	, 180.70,	180.70,	0.00) DC	
	4TH HIGHEST	VALUE IS	0.00606 AT (	431742.99,	4248180.00	, 174.10,	314.60,	0.00) DC	
	5TH HIGHEST	VALUE IS			4248230.00	176.60,	181.20,	0.00) DC	
	6TH HIGHEST	VALUE IS	0.00579 AT (	431592.99,	4248280.00		317.20,	0.00) DC	
	7TH HIGHEST				4248130.00			0.00) DC	
	8TH HIGHEST				4248180.00			0.00) DC	
	9TH HIGHEST							0.00) DC	
	10TH HIGHEST	VALUE IS	0.00556 AT (	431742.99,	4248130.00	, 172.80,	314.60,	0.00) DC	
PFUGIT	1ST HIGHEST	VALUE TO	0.03883 AT (	431702 00	4248180.00	. 180.70.	314.60,	0.00) DC	
110011	2ND HIGHEST				4248130.00			0.00) DC	
	3RD HIGHEST							0.00) DC	
	4TH HIGHEST							0.00) DC	
	5TH HIGHEST							0.00) DC	
	6TH HIGHEST	VALUE IS			4248130.00	173.50,	314.60,	0.00) DC	
	7TH HIGHEST	VALUE IS	0.03329 AT (	431742.99,	4248180.00	, 174.10,	314.60,	0.00) DC	
	8TH HIGHEST	VALUE IS						0.00) DC	
	9TH HIGHEST	VALUE IS						0.00) DC	
	10TH HIGHEST	VALUE IS	0.03081 AT (	431642.99,	4248230.00	, 176.60,	181.20,	0.00) DC	
DOL YOU	1ct utcuret	1/41 UE T	1 22184 47 6	431703 00	4248130.00	. 172.80.	314.60.	0 000 00	
POLYOX	1ST HIGHEST							0.00) DC	
	2ND HIGHEST 3RD HIGHEST							0.00) DC 0.00) DC	
	4TH HIGHEST				4248130.00			0.00) DC	
	5TH HIGHEST				4248230.00			0.00) DC	
	6TH HIGHEST				4248118.67			0.00) DC	
	7TH HIGHEST		0.89499 AT C					0.00) DC	
	8TH HIGHEST		0,89035 AT (					0.00) DC	
	9TH HIGHEST							0.00) DC	
	10TH HIGHEST		0.86000 AT (			. 172.80.	314.60.	0.00) DC	





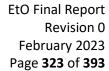
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

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

GROUP	ID	AVERAGE CONC	RECE	EPTOR (XR, Y	R, ZELEV,	ZHILL, ZFLAG	) OF TYP	NETWORK E GRID-ID
ALL	1ST HIGHEST VALUE IS	1.25158 AT (	431792.99.	4248130.00.	172.80.	314.60.	0.00) D	c
	2ND HIGHEST VALUE IS	1.14332 AT (	431931.66.	4248118.67.	180.80,	314.60.	0.00) D	c
	3RD HIGHEST VALUE IS	1.10425 AT (	431731.66.	4248218.67.	180.80.	314.60.	0.00) D	C
	4TH HIGHEST VALUE IS	1.06669 AT (	431842.99,	4248130.00,	173.50,	314.60,	0.00) D	C
	5TH HIGHEST VALUE IS	1.06322 AT (	431692.99,	4248230.00,	180.70,	180.70.	0.00) D	C
	6TH HIGHEST VALUE IS	1.00523 AT (	431831.66.	4248118.67.	172.80.	314.60.	0.00) D	C
	7TH HIGHEST VALUE IS	0.92371 AT (	431642.99,	4248230.00,	176.60,	181.20,	0.00) D	c
	8TH HIGHEST VALUE IS	0.92107 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00) D	C
	9TH HIGHEST VALUE IS	0.91806 AT (	431742.99.	4248080.00,	172.80,	314.60,	0.00) D	c
	10TH HIGHEST VALUE IS	0.89398 AT (	431592.99,	4248180.00,	172.80,	314.60,	0.00) D	C

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







### February Monitoring Event AERMOD Summary File: South Charleston

```
*** MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
 *** MODEL SETUP OPTIONS SUMMARY ***
** Model Options Selected:

* Model Uses Regulatory DEFAULT Options

* 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 NORY DEPLETION. DDPLETE = F

* Model Uses NO MET DEPLETION. WETDPLT = F

* Stack-tip Downwash.

* Model Accounts for ELEVATED TERRATE EFFECTS.

* Use Calms Processing Routine.

* Use Missing Data Processing Routine.

* Use Missing Data Processing Routine.

* No Exponential Decay.

* Model Uses RURAL Dispersion only.

Option for Capped & Horiz Stacks Selected with:

* O Capped Stack(S): and

* ADI_U* — Use ADI_U* Option for SBL in AERMET

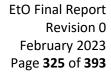
* Model Assumes No FLAGPOLE Receptor Heights.

* 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)
                                            102 POINT(s), including
0 POINT(s), including
15 VOLUME SOURCE(s)
1 AREA type SOURCE(s)
1 LINE SOURCE(s)
0 RILNE(RILNEXT SOURCE(s)
0 DEMPHIT SOURCE(s)
0 BUVANT LINE SOURCE(s)
0 SWPOINT SOURCE(s)
0 SWPOINT SOURCE(s)
                            with:
 **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.
 **Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

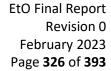




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)  $\ensuremath{\mbox{\sc heat}}$ 

1.54, 3.09, 5.14, 8.23, 10.80,

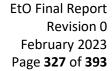




\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Feb 15-16, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\* \*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Met Version: 22112 First 24 hours of scalar data YR MO DY JDY HR HO U\*  $W^{\!\!\!/\!\!\!\!/}$  DT/DZ ZICNV ZIMCH M-O LEN Z $\!\!\!\!/$  BOWEN ALBEDO REF WS WD HT REF TA 22 02 15 7.9 278.5 7.9 279.0 7.9 279.1 7.9 279.5 7.9 279.5 7.9 279.8 7.9 279.9 7.9 279.9 7.9 275.0 7.9 275.0 7.9 275.0 7.9 281.0 7.9 281.0 7.9 283.0 7.9 283.0 7.9 283.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 7.9 276.0 1.00 1.00 1.00 1.00 1.00 1.00 0.69 0.35 0.24 0.29 0.18 0.18 0.19 0.29 0.52 1.00 1.00

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)



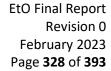


08/23/22 14:56:16

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC	OF I	DTH	ER IN MI	ROGRAM	IS/M**	3					St W		
GROUP	ID			_	AVERAGE CONC		-	RE:	EPTOR	(XR,	YR,	ZELEV,	ZHILL	ZFLAG	)_	OF T	TYPE	NETWORK GRID-ID
CHMIX	1ST	HIGHEST	VALUE	IS	0.07384 0.04901 0.04871 0.04335 0.03268 0.02795 0.02763 0.02746	AT	(	440177.01,	42467	83.81	,	183.60,				00)	DC	
	2ND	HIGHEST	VALUE	IS	0.04901	AT	(	440127.01,	42467	83.81	,	183.20,				00)	DC	
	3RD	HIGHEST	VALUE	IS	0.04871	AT	(	440127.01,	42467	33.81	,	181.10,	284			00)	DC	
	4TH	HIGHEST	VALUE	IS	0.04335	AT	(	440115.68,	42467	22.48	,	180.20,	284			00)	DC	
	5TH	HIGHEST	VALUE	IS	0.03819	AT	(	440077.01,	42467	33.81	,	181.70,				00)	DC	
	6ТН	HIGHEST	VALUE	IS	0.03268	AT	(	440077.01,	42467	83.81	,	182.10,	284			00)	DC	
	7TH	HIGHEST	VALUE	IS	0.02795	AT	(	440077.01,	42466	83.81	,	180.30,				00)	DC	
	8TH	HIGHEST	VALUE	IS	0.02763	AT	(	440027.01,	42467	33.81	,	183.10,	284			00)	DC	
	9ТН	HIGHEST	VALUE	IS	0.02746	AT	(	440119.85,	42468	06.86	,	183.40,				00)	DC	
	10TH	HIGHEST	VALUE	IS	0.02639	AT	(	440015.68,	42467	22.48	,	182.70,		10,	0.	00)	DC	
1RX	1ST	HIGHEST	VALUE	IS	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	AT	(	0.00,		0.00	ý	0.00,	0.	.00,		00)		
	2ND	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		00)		
	3RD	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		00)		
	4TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		00)		
	5TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00		00)		
	6ТН	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00		00)		
	7TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		00)		
	8TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		00)		
	9тн	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,		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,		00)		
	2ND	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00		00)		
	3RD	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	4TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	5TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	6ТН	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00		00)		
	7TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	8TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	9 <b>T</b> H	HIGHEST	VALUE	IS	0.00000	AT	C	0.00,		0.00	,	0.00,		.00,		00)		
	10TH	HIGHEST	VALUE	IS		AT	(	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00,		0.00	,	0.00,	0.	.00,	0.	00)		
3RX	1ST	HIGHEST	VALUE	IS	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	AT	(	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00,		0.00		0.00,	0.	.00,	0.	00)		
	2ND	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,	0.	00)		
	3RD	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,	0.	00)		
	4TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00	0.	00)		
	5TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	6ТН	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,	0.	00)		
	7TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	8TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00		00)		
	9тн	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,		.00,		00)		
	10TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	.00,	0.	00)		

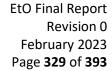




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					str str	CONC	OF	OTHE	R I	N MI	ROGRAM	IS/M**	3			st th		
GROUP I	D			AVE	RAGE	CONC				RE	EPTOR	(XR,	YR, ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
789RX		HIGHEST									42470			184.		0.00)		
		HIGHEST							440127			83.81		184.		0.00)	DC	
		HIGHEST				09370			440177			83.81		183.		0.00)		
		HIGHEST				07869			440077			33.81		184.		0.00)	DC	
		HIGHEST				06692			439963			370.04		184.		0.00)		
		HIGHEST			0.	06124	AT	(	439977			333.81		183.		0.00)	DC	
		HIGHEST				06040			439927			333.81	, 183.60,	183.		0.00)		
		HIGHEST				05907			439877			33.81		184.		0.00)	DC	
		HIGHEST							439915			322.48		183.		0.00)		
	10TH	HIGHEST	VALUE	IS	0.	05419	AT	(	440015	. 68,	42470	22.48	, 173.10,	184.	90,	0.00)	DC	
CPOINT		HIGHEST			0.	12533	AT	(	440115			22.48	, 173.10,	184.		0.00)	DC	
		HIGHEST		IS	0.	11946			440127			83.81				(00.0)		
		HIGHEST		IS	0.	09370			440177			83.81		183.		0.00)	DC	
		HIGHEST		IS	0.				440077			33.81		184.		(00.0)		
		HIGHEST		IS	0.	06692			439963			370.04	, 184.50,	184.		(00.0)		
		HIGHEST		IS	0.				439977			333.81		183.		0.00)		
		HIGHEST		IS	0.	06040	AT	(	439927			333.81		183.		0.00)	DC	
		HIGHEST		IS	0.	05907	AT	(	439877			33.81		184.		(00.0)		
		HIGHEST		IS	0.				439915			322.48		183.		(00.0)	DC	
	10TH	HIGHEST	VALUE	IS	0.	05419	AT	(	440015	. 68,	42470	)22.48	, 173.10,	184.	90,	0.00)	DC	
CEO03F	1st	HIGHEST	VALUE	IS	0.	06503	AT	(	439827	.01,	42471	133.81		185.		0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.				439527			33.81	, 183.60,	183.		(00.0)	DC	
	3RD	HIGHEST	VALUE	IS	0.	05040	AT	(	439515	.68,	42469	22.48	, 183.10,	183.	10,	(00.0)	DC	
	4TH	HIGHEST	VALUE	IS IS IS IS IS IS IS IS	0.	04887	AT	(	439777	.01,	42471	183.81	, 173.10,	184.	40,	(00.0)	DC	
	5TH	HIGHEST	VALUE	IS	0.	04880	AT	(	439577	.01,	42469	33.81	, 183.70,	183.		(00.0)	DC	
	6TH	HIGHEST	VALUE	IS	0.	04795			439477			33.81		183.		(00.0)		
	7TH	HIGHEST	VALUE	IS	0.	04386			439463		42468	370.04		182.		(00.0)	DC	
	8TH	HIGHEST	VALUE	IS	0.				439477			83.81		184.	70,	0.00)	DC	
	9TH	HIGHEST	VALUE	IS	0.	04205	AT	(	439427	.01,	42469	33.81	, 183.50,	183.	50,	(00.0)	DC	
	10TH	HIGHEST	VALUE	IS	0.	04172	AT	(	439415	. 68,	42469	322.48	, 183.20,	183.	20,	0.00)	DC	
CPIVE	1ST	HIGHEST	VALUE	IS	0.	30034	AT		440115	. 68.	42470	022.48	, 173.10,	184.	10.	0.00)	DC	
2000 <del>-13</del> 00		HIGHEST			0	29454	AT	· C	440127			83.81		184.		0.00)		
		HIGHEST				19448			440177			83.81		183.		0.00)	DC	
		HIGHEST				19413			440077			33.81		184.		0.00)	DC	
		HIGHEST			ó.	17127	AT	· C	439963			370.04		184.		0.00)	DC	
		HIGHEST				14737			439877			33.81		184.		0.00)		
		HIGHEST				14545			439927			333.81		183.		0.00)	DC	
		HIGHEST				13842			439915			322.48		183.		0.00)		
		HIGHEST							439877			33.81		183.		0.00)	DC	
		HIGHEST				13516							173.10,		90.		DC	



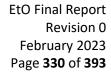


08/23/22 14:56:16

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC	OF	OTH	ER I	N MI	CROGRAM	S/M*	<b>'3</b>				常作		
GROUP ID					AVERAGE CONC				RE	CEPTOR	(XR	YR	. ZELEV.	ZHILL.	ZFLAG)	OF	TYPE	NETWORK
				-			-											
	1.00			**	0. 20100			440115	60	42.470	22 4		177 10	204	10	0 00		
CFUGIT		HIGHEST											173.10,	184.		0.00		
		HIGHEST			0.29586	AI	ļ	440127	. OI,	42469			173.10,	184.		0.00		
		HIGHEST			0.19574								173.10,	184.		0.00		
		HIGHEST			0.19571								173.10,	183.		0.00		
		HIGHEST			0.17245								184.50,	184.		0.00		
		HIGHEST			0.14873	AT	(	439877					184.90,	184.		0.00		
		HIGHEST			0.14660								183.60,	183.		0.00		
		HIGHEST			0.13959								183.20,	183.		0.00		
		HIGHEST			0.13692								183.10,	183.		0.00		
	10TH	HIGHEST	VALUE	IS	0.14873 0.14660 0.13959 0.13692 0.13687	AT	(	440015	. 68,	42470	22.4	3,	173.10,	184.	90,	0.00	) DC	
OVESTRO	1ST	HIGHEST	VALUE	TS	0.42713	ΔТ	- (	440115	68	42470	22.4	3.	173.10,	184.	10.	0.00	) DC	
.or LD I NO		HIGHEST											173.10,	184.		0.00		
		HIGHEST											173.10,	183.		0.00		
		HIGHEST			0.27443								173.10,	184.		0.00		
		HIGHEST			0.23936								184.50.	184.		0.00		
		HIGHEST			0.20780								184.90,	184.		0.00		
		HIGHEST			0.20701								183.60,	183.		0.00		
		HIGHEST			0.19805	AT	- 2	439915					183.20,	183.		0.00		
		HIGHEST											183.50,	183.		0.00		
		HIGHEST											173.10,	184.		0.00		
					0.04570					10.100								
E10813		HIGHEST				AT	Ĺ	4398//		42469			184.90,	184.		0.00		
		HIGHEST			0.01553	AT	(	439777	.01,	42468			183.00,	183.	00,	0.00		
		HIGHEST			0.01545								183.20,	183.		0.00		
		HIGHEST			0.01538	AT	(	439/15	. 68,	42468	22.4	5,	183.10,	183.		0.00		
		HIGHEST			0.01521	AT	Ţ	439827	.01,	42469			186.10,	186.		0.00		
		HIGHEST			0.01511								182.70,	182.		0.00		
		HIGHEST			0.01497								182.60,	182.		0.00		
		HIGHEST			0.01469								182.40,	182.		0.00		
		HIGHEST			0.01459								182.30,	182.		0.00		
	10TH	HIGHEST	VALUE	IS	0.01454	AT	(	439627	.01,	42467	83.8	L,	182.40,	182.	40,	0.00	) DC	
_L_ALL	1ST	HIGHEST	VALUE	IS	0.03847	ДТ		439927	.01	42470	83.8	L.	173.10.	185.	00.	0.00	DC	
		HIGHEST			0.03747								173.10,	184.		0.00		
		HIGHEST			0.03078								173.10,	184.		0.00		
		HIGHEST			0.01288								184.20,	184.		0.00		
	STH	HICHEST	VALUE	TC	0.01282	ΔΤ	- 2	439827	01	42469			186.10,	186.		0.00		
	6TH	UTCUEST	VALUE	TC	0.01268								173.10,	184.		0.00		
	7TH	HIGHEST	VALUE	13	0.01200								183.20,	183.		0.00		
	2 TH	HIGHEST	VALUE	15	0.01177								183.80,	183.		0.00		
	OTH	HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	13	0.01133													
	10711	HIGHEST	VALUE	12	0.01081								183.70,	183.		0.00		
	TOTH	HIGHEST	VALUE	12	0.01073	AI	(	4395//	· UL,	42469	22.8.	L <sub>3</sub>	183.70,	183.	70,	0.00	) DC	



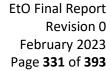


08/23/22 14:56:16

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					*** CONC	OF	OTH	ER IN	MI	CROGRAM	IS/M**	3				34	w		
GROUP I	)			-	AVERAGE CONC		_		RE	CEPTOR	(XR,	YR	, ZELEV,	ZHILL,	ZFLAG	) 0	F TYF	NETWO	
	12000								23							020012			
T_T_ALL		HIGHEST				AT	Č	439927.	01,	42470			173.10,	185.		0.0		C	
		HIGHEST						439915.					173.10,	184.		0.0		C	
		HIGHEST			0.02275						83.81		173.10,	184.		0.0		C	
		HIGHEST			0.01862								173.10,	184.		0.0		C	
		HIGHEST			0.01857	AT	. (	439677.		42469			184.20,	184.		0.0		C	
		HIGHEST			0.01597	AT	. (	439627.		42469			183.80,	183.		0.0		C	
		HIGHEST			0.01576					42469			183.70,	183.		0.0		C	
		HIGHEST						439627.6		42468			182.70,	182.		0.0		C	
		HIGHEST						439713.7		42468			183.20,	183.		0.0		C	
	10TH	HIGHEST	VALUE	IS	0.01545	AT	. (	439577.	)1,	42468	33.81		182.80,	182.	80,	0.0	0) [	C	
T_POINT	1ST	HIGHEST	VALUE	IS	0.07378	AT	(	439927.	01,	42470	83.81	y	173.10,	185.	00,	0.0	0) 0	iC	
	2ND	HIGHEST	VALUE	IS	0.06738	AT	(	439977.6	01.	42470	83.81		173.10,	184.	70.	0.0	0) 0	IC .	
	3RD	HIGHEST	VALUE	IS	0.06124	AT	(	439915.1	58.	42471	22.48		173.10,	184.	60.	0.0	0) 0	C	
	4TH	HIGHEST	VALUE	IS	0.04185	AT	. (	439827.6	)1,	42469	33.81		186.10,	186.	10,	0.0	0) 0	C	
	5TH	HIGHEST	VALUE	IS	0.04155	AT	. (	439713.7	24.	42468			183.20.	183.	20.	0.0	0) 0	C	
	6ТН	HIGHEST	VALUE	IS				439677.	11.	42469	33.81		184.20,	184.	20.	0.0	0) 0	C	
		HIGHEST			0.03884					42468			182.70,	182.		0.0	0) 0	iC .	
	8TH	HIGHEST	VALUE	IS	0.03851	AT	(	439677.6	01.	42468	33.81		182.80,	182.	80.	0.0	0) 0	C	
	9ТН	HIGHEST	VALUE	IS	0.03810	AT	(	439615.0	58.	42468	22.48		182.60.	182.	60.	0.0	0) 0	C	
	10TH	HIGHEST	VALUE	IS	0.03724	AT	. (	439619.	35,	42468	06.86	,	182.60,	182.	60,	0.0	0) 0	C	
THE	1ST	HIGHEST	VALUE	TS	0.01627	АТ		439915.1	.8	42471	22.48		173.10.	184.	60.	0.0	0) [	C	
		HIGHEST			0.01444			439927.6		42470			173.10,	185.		0.0		c	
		HIGHEST						439877.					173.10,	184.		0.0		č	
		HIGHEST								42470			173.10,	184.		0.0		ī.	
		HIGHEST			0.00805	AT	· c	439827.	1.	42471			173.10,	185.		0.0		c	
		HIGHEST								42472			173.10,	272.		0.0		Č	
		HIGHEST								42469			184.20,	184.		0.0		C	
		HIGHEST						439713.		42468			183.20,	183.		0.0		c	
		HIGHEST						439827.		42469			186.10,	186.		0.0		č	
		HIGHEST						439477.		42469			184.70,	184.		0.0		īČ	
TRE	157	HIGHEST	NAL HE	TC	0.01643	AT		439977.	11	42470	00 01		173.10,	184.	70	0.0	0 0	c	
1161		HIGHEST			0.01043			439977.1		42470			173.10,	185.		0.0		C	
										42470						0.0		ic C	
		HIGHEST			0.01177 0.01052					42468			186.10, 183.20,	186. 183.		0.0			
		HIGHEST			0.00950			439677.		42468			184.20,	184.		0.0		ic ic	
		HIGHEST						439677.1		42468			182.80.	182.		0.0			
		HIGHEST																C	
		HIGHEST						439627.4		42468			182.70,	182.		0.0		IC .	
		HIGHEST											182.60,	182.		0.0		C	
		HIGHEST											182.60,	182.		0.0		C	
	TOTH	HIGHEST	VALUE	12	0.00865	AI	(	439627.	π,	42469	22.87	30	183.80,	183.	ou,	0.0	U) L	C	

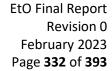




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

						CONC	OI I	2111	LK II	W 191.	LCRUGRAM	3/ M	,						
GROUP ID				_	AVERAGE	CONC		_		RI	ECEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF :	TYPE	NETWORK GRID-ID
TFNC	1cT	HIGHEST	VALUE	TC	0	02353	ΔТ	C	430777	01	, 42471	27 21		173.10,	184.	40	0.00)	DC	
THE		HIGHEST									42471			173.10,			(00.0	DC	
		HIGHEST				01227			439727					173.10.			(00.0	DC	
		HIGHEST							439877					173.10.			(00.0		
		HIGHEST				00738			439427					185.80.			(00.0	DC	
		HIGHEST							439477					184.60,			(00.0		
		HIGHEST				00732			439477					184.90,			(00.0	DC	
		HIGHEST							440015					173.10.			(00.0	DC	
		HIGHEST				00701			439415					185.80,			(00.0	DC	
		HIGHEST							439577					183.70,			(00.0		
FUGIT	157	HIGHEST	VALUE	TS	0	03372	ΔТ	(	439827	01	42471	33 81		173.10,	185.	00	(00.0	DC	
0011		HIGHEST			0	02870	AT	2	439977					173.10,			(00.0	DC	
		HIGHEST							439927					173.10,			(00.0	DC	
		HIGHEST							439877					173.10,			0.00)	DC	
		HIGHEST							439915					173.10.			(00.0		
		HIGHEST							439777					173.10,			(00.0		
		HIGHEST				01876			439577					183.70.			(00.0		
		HIGHEST							439627					183.80,			(00.0	DC	
		HIGHEST							439615					183.70.			(00.0		
		HIGHEST							439527					183.60,			(00.0	DC	
TRITON	1ST	HIGHEST	VALUE	TS	0	10088	ΔΤ	r	439927	01	. 42470	83 81		173.10,	185.	00	0.00	DC	
		HIGHEST				09608			439977					173.10,			(00.0	DC	
		HIGHEST							439915					173.10,	184.		(00.0	DC	
		HIGHEST				06207			439877					173.10,			(00.0	DC	
		HIGHEST			Ů.	05916	AT	è	439677	01	42469	33.81		184.20,	184.	20.	(00,0		
		HIGHEST				05828			439827				1	173.10,	185.		(00,0	DC	
		HIGHEST							439827					186.10,			(00.0	DC	
		HIGHEST			Ō.	05737			439713					183.20.			(00.0	DC	
		HIGHEST							439627					183.80,			(00.0		
		HIGHEST							439615					183.70,			(00.0	DC	
A_E70XP	1ST	HIGHEST	VALUE	IS	0.	43980	AT	C	439327	01	, 42468	33.81		182.70,	182.	70.	0.00	DC	
		HIGHEST				42959			439315					182.30,			(00.0		
		HIGHEST				40961	AT	è	439277					181.90,			(00.0	DC	
		HIGHEST			0.	40351	AT	è	439477					183.40.			(00.0		
		HIGHEST				39684			439227					182.40,			(00.0	DC	
		HIGHEST							439415					183.20.			(00.0		
		HIGHEST				39480			439377					182.30,			(00.0	DC	
		HIGHEST							439277					182.50.			(00,0		
		HIGHEST							439227					182.10,			(00,0	DC	
		HIGHEST				38367													

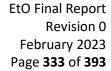




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CC	NC	OF I	отн	ER I	N MI	CROGRAM	IS/M <sup>®</sup>	3				命令		
GROUP ID					AVERAGE CO	NC				RE	CEPTOR	(XR	YR,	ZELEV,	ZHILL	, ZFLA	G) OF	TYPE	NETWORK GRID-ID
								-											
DA_TALLP		HIGHEST							439477			83.83	- ,	184.70,		.70,	0.00		
		HIGHEST			0.01	241	AT	(	439477		42469			183.40,		.40,	0.00		
		HIGHEST			0.01				439427		42469			183.50, 183.20,		.50,	0.00		
		HIGHEST			0.01						42469			184.50		.50.	0.00		
		HIGHEST							439477		42470			184.90		.90.	0.00		
		HIGHEST			0.01						42469			183.60,		.60.	0.00		
		HIGHEST			0.01				439377		42469			183.40		.40.	0.00		
		HIGHEST			0.01						42469			183.10,		.10,	0.00		
		HIGHEST							439327		42468			182.70		.70,	0.00		
A_LALLP		HIGHEST							439477					184.70,		.70,	0.00		
		HIGHEST			0.00						42469			184.50,		.50,	0.00		
		HIGHEST							439477					184.90,		.90,	0.00		
		HIGHEST							439427		42469			183.50,	183	.50,	0.00		
		HIGHEST							439477		42469			183.40,		.40,	0.00		
		HIGHEST			0.00				439415		42469			183.20, 184.30,		.20,	0.00		
		HIGHEST			0.00						42469			183.40,		.40.	0.00		
		HIGHEST							439327		42469			183.50,		.50.	0.00		
		HIGHEST			0.00						42469			183.20,		.20,	0.00		
DA_POINT	1st	HIGHEST	VALUE	IS	0.44	972	AT	(	439327	.01.	42468	33.83		182.70.	182	.70.	0.00	) DC	
		HIGHEST			0.43						42468		3,	182.30,	182	.30,	0.00	) DC	
	3RD	HIGHEST	VALUE	IS					439277		42467			181.90,		.90,	0.00	) DC	
		HIGHEST			0.41					.01,	42469			183.40,	183	.40,	0.00		
		HIGHEST							439415		42469			183.20,		.20,	0.00		
		HIGHEST							439227		42467			182.40,		.40,	0.00		
		HIGHEST							439377		42468			182.30,		.30,	0.00		
		HIGHEST			0.39	754	AT	(	439427	.01,	42469			183.50,		.50,	0.00		
		HIGHEST							439277					182.50,		.50,	0.00		
	TOTH	HIGHEST	VALUE	IS	0.39	2/9	AT	(	439227	.01,	42467	33.8.	- ,	182.10,	182	.10,	0.00	) DC	
AHR2F	1ST	HIGHEST	VALUE	IS	0.13	472	AT	(	439477	.01,	42469	83.83		184.70,	184	.70,	0.00	) DC	
		HIGHEST			0.12						42470			184.90,		.90,	0.00		
		HIGHEST			0.10						42469			184.50,		.50,	0.00		
		HIGHEST			0.10						42469			183.40,		.40,	0.00		
		HIGHEST			0.10				439427		42469			183.50,		.50,	0.00		
		HIGHEST							439415		42469			183.20,		.20,	0.00		
		HIGHEST			0.08				439377		42469			184.30,		.30,	0.00		
		HIGHEST							439415					185.80,		.80,	0.00		
		HIGHEST			0.08				439427		42470			185.80,		.80,	0.00		
	TOTH	HIGHEST	VALUE	12	0.08	203	AI	(	4393//	·UI,	42469	33.8.	-7	183.40,	183	.40,	0.00	) DC	



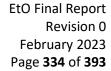


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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					CONC OF OT		NOGNAM							
GROUP ID				_	AVERAGE CONC	REC	EPTOR	(XR,	YR, ZE	LEV,	ZHILL, ZFLAG	OF -	TYPE	NETWORK GRID-ID
DAR45F	1cT	HIGHEST	VALUE	TC	0.13043 AT (	439477 01	42460	Q7 Q1	184	.70,	184.70,	0.00)	DC	
MICTOR		HIGHEST			0.12375 AT (					.50.		0.00)	DC	
		HIGHEST			0.12329 AT (					.90,		0.00)	DC	
		HIGHEST			0.11165 AT (	439377.01.	42469		183	.40,		0.00)	DC	
		HIGHEST			0 1069E AT (		42469			.50.		0.00)	DC	
		HIGHEST			0.10118 AT (	439415.68.	42469			.20.	183.20.	0.00)	DC	
		HIGHEST			0.09933 AT (		42469			1.30.	184.30.	0.00)	DC	
		HIGHEST			0.09658 AT (		42469			.50,	183.50,	0.00)	DC	
		HIGHEST			0.09580 AT (					.80.		0.00)	DC	
		HIGHEST			0.10118 AT ( 0.09933 AT ( 0.09658 AT ( 0.09580 AT ( 0.09501 AT (					.80.		0.00)	DC	
	TOTH	HIGHEST	VALUE	13	0.03301 AI (	433427.011	72470	JJ. 01	10.	,	103.001	0.00)	DC	
AR6F		HIGHEST			0.03698 AT ( 0.03107 AT ( 0.02967 AT ( 0.02804 AT ( 0.02793 AT ( 0.02404 AT ( 0.02392 AT ( 0.02392 AT ( 0.02393 AT ( 0.02935 AT ( 0.01975 AT (	439477.01,	42469	83.81	184	.70,		0.00)	DC	
		HIGHEST			0.03107 AT (				, 183	1.40,		0.00)	DC	
	3RD	HIGHEST	VALUE	IS	0.02967 AT (					3.50,		0.00)	DC	
		HIGHEST			0.02804 AT (					1.50,	184.50,	0.00)	DC	
		HIGHEST			0.02793 AT (					1.20,	183.20,	0.00)	DC	
		HIGHEST			0.02404 AT (		42469			.40,	183.40,	0.00)	DC	
		HIGHEST			0.02392 AT (		42470			1.90,	184.90,	0.00)	DC	
		HIGHEST			0.02166 AT (		42469			1.30,	184.30,	0.00)	DC	
		HIGHEST			0.02039 AT (					3.50,	183.50,	0.00)	DC	
	10TH	HIGHEST	VALUE	IS	0.01975 AT (	439527.01,	42469	33.81	, 183	6.60,	183.60,	0.00)	DC	
OAR7F	1ST	HIGHEST	VALUE	TS	0.01367 AT (	439477.01.	42469	83.81	184	.70.	184.70.	0.00)	DC	
		HIGHEST			0 01240 AT (					.40,		0.00)	DC	
		HIGHEST			0.01124 AT (		42469			.50,		0.00)	DC	
		HIGHEST			0.01084 AT (					.50,	184.50.	0.00)	DC	
		HIGHEST			0.01064 AT (	439415.68.	42469		183	.20,	183.20.	0.00)	DC	
		HIGHEST			0.00997 AT (					.90	184.90,	0.00)	DC	
		HIGHEST			0.00975 AT (	439527.01,	42469			.60,	183.60,	0.00)	DC	
		HIGHEST			0.00929 AT (					.40.		0.00)	DC	
		HIGHEST			0.00892 AT (		42469			.10.		0.00)	DC	
		HIGHEST			0.0124 AT ( 0.01084 AT ( 0.01084 AT ( 0.00997 AT ( 0.00997 AT ( 0.00929 AT ( 0.00829 AT ( 0.00883 AT (					1.30,		0.00)	DC	
	TOTH	niguesi	VALUE	13	0.00883 AT (	435377.01,	42403	03.01	104	. 50,	104.30,	0.00)	DC	
AWTILF		HIGHEST			0.07777 AT (					.00,	327.10,	0.00)	DC	
		HIGHEST			0.07324 AT (	439177.01,	42473			.00,	327.10,	0.00)	DC	
		HIGHEST			0.06925 AT (		42473			.00,	327.10,	(00.0)	DC	
	4TH	HIGHEST	VALUE	IS	0.06906 AT (	439477.01,	42472			.00,	327.10,	0.00)	DC	
	5TH	HIGHEST	VALUE	IS	0.06895 AT (	439427.01,	42472			.00,	327.10,	0.00)	DC	
	6TH	HIGHEST	VALUE	IS	0.06717 AT (	439127.01,	42472			1.10,		0.00)	DC	
	7TH	HIGHEST	VALUE	IS	0.06645 AT (	439377.01,				.00.		0.00)	DC	
	8TH	HIGHEST	VALUE	IS			42472			.90,	327.10,	0.00)	DC	
		HIGHEST								.00.		0.00)	DC	
		HIGHEST			0.06411 AT (			83.81		.50,	311.30,	0.00)	DC	

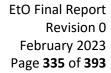




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC	OF	ОТН	ER IN	MICROGR	AMS/	M**	3				命作		
GROUP ID					AVERAGE CONC				RECEPTO	R (	XR,	YR,	ZELEV,	ZHILL	ZFLAG)	OF	TYPE	NETWORK GRID-ID
				-			-											
DALIBE	1ST	HIGHEST	VALUE	IS	0.27358	AT	(	439715.6	8. 424	7222	.48		173.10,	327	10.	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.11838					7183	.81	,	173.10,	311.	.00	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.04874	AT	. (	439527.0	1, 424	7133	.81	,	184.50,	184	50,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.04421			439515.6		7122			184.70,	184	70,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.03723					7120			184.60,	184	60,	0.00	) DC	
		HIGHEST			0.03608			439477.0		7133			184.60,	184		0.00		
		HIGHEST						439477.0		7033			184.90,	184		0.00		
		HIGHEST			0.03289			439477.0		7083			184.60,	184.		0.00		
	9TH	HIGHEST	VALUE	IS				439427.0		7083			185.10,	185	10,	0.00		
	10TH	HIGHEST	VALUE	IS	0.02712	AT	. (	439527.0	1, 424	7183	. 81	,	177.00,	311.	30,	0.00	) DC	
A_FUGIT		HIGHEST			0.34019					6983			184.70,	184		0.00		
		HIGHEST						439477.0		7033			184.90,	184.		0.00		
		HIGHEST			0.30650					7222			173.10,	327		0.00		
		HIGHEST						439427.0		6983			184.50,	184		0.00		
		HIGHEST			0.26801					6933			183.50,	183		0.00		
		HIGHEST			0.25306	AT	. (	439415.6		6922			183.20,	183		0.00		
		HIGHEST			0.25292	AT	. (	439377.0		6933			183.40,	183		0.00		
		HIGHEST						439377.0		6983			184.30,	184		0.00		
		HIGHEST			0.23410	AT	Ċ	439477.0	1, 424	6933			183.40,	183		0.00		
	10TH	HIGHEST	VALUE	IS	0.23212	AT	(	439415.6	8, 424	7022	. 48	,	185.80,	185	.80,	0.00	) DC	
DA_ALL		HIGHEST			0.66555	AT	(	439427.0	1, 424	6933			183.50,	183		0.00		
		HIGHEST			0.66213	AT	(	439415.6		6922			183.20,	183		0.00		
		HIGHEST						439477.0		6933			183.40,	183		0.00		
		HIGHEST			0.64036	AT	(	439477.0	1, 424	6983	. 81		184.70,	184		0.00		
		HIGHEST						439327.0		6833			182.70,	182		0.00		
		HIGHEST						439315.6		6822			182.30,	182		0.00		
		HIGHEST						439277.0		6833			182.50,	182		0.00		
		HIGHEST						439277.0		6783			181.90,	181.		0.00		
		HIGHEST						439227.0		6783			182.40,	182		0.00		
	TOTH	HIGHEST	VALUE	IS	0.54524	AT	(	439377.0	1, 424	6833	. 81	,	182.30,	182	.30,	0.00	) DC	
JCC_SC		HIGHEST						439427.0		6933			183.50,	183		0.00		
		HIGHEST			0.70372			439415.6		6922			183.20,	183		0.00		
		HIGHEST						439477.0		6933			183.40,	183		0.00		
		HIGHEST			0.68189	AT	. 5	439477.0	1, 424	6983	. 81	,	184.70,	184		0.00		
		HIGHEST						439327.0		6833			182.70,	182.		0.00		
		HIGHEST			0.63257			439315.6		6822			182.30,	182		0.00		
		HIGHEST			0.599/0	AT		439277.0		6833			182.50,	182		0.00		
		HIGHEST						439277.0		6783			181.90,	181		0.00		
		HIGHEST						439377.0		6833			182.30,	182		0.00		
	TOTH	HIGHEST	VALUE	15	0.57797	AT	(	439227.0	1, 424	6783	.81	9	182.40,	182	40,	0.00	) DC	





\*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

						** CONC	OF	OTI	HER IN	MICROGR	AMS/M <sup>♠</sup>	*3			***		
GROUP	ID					AVERAGE CONC				RECEPTO	R (XR	, YR, ZEI	LEV,	ZHILL, ZFI	AG) OF	TYPE	NETWORK GRID-ID
					-		-	-								-	
ALL		1ST	HIGHEST	VALUE	IS	0.77244	AT.	(	439477.0	01, 424	6933.8	1, 183	.40,	183.40,	0.00)	DC	
		2ND	HIGHEST	VALUE	IS	0.77119	IA I	(	439427.0	01, 424	6933.8	1, 183	.50,	183.50,	0.00)	DC	
		3RD	HIGHEST	VALUE	IS	0.76950	AT	(	439415.6	58, 424	6922.4	8, 183	.20,	183.20,	0.00)	DC	
		4TH	HIGHEST	VALUE	IS	0.73751	. AT	. (	439477.0	01, 424	6983.8	1, 184	.70,	184.70,	0.00)	DC	
		5TH	HIGHEST	VALUE	IS	0.73162	AT	(	439327.0	01, 424	6833.8	1, 182	.70.	182.70.	0.00)	DC	
		6ТН	HIGHEST	VALUE	IS	0.71309	IA I	(	439315.6	58, 424	6822.4	8, 182	.30,	182.30,	0.00)	DC	
		7TH	HIGHEST	VALUE	IS	0.67320	AT	(	439377.0	01, 424	6833.8	1, 182	.30,	182.30,	0.00)	DC	
		8TH	HIGHEST	VALUE	IS	0.67039	AT	(	439277.0	01, 424	6783.8	1, 181	.90,	181.90,	0.00)	DC	
		<b>9TH</b>	HIGHEST	VALUE	IS	0.66748	A7	(	439277.0	1, 424	6833.8	1, 182	.50.	182.50,	0.00)	DC	
		10TH	HIGHEST	VALUE	IS	0.65184	AT	(	439227.0	01, 424	6783.8	1, 182	.40,	182.40,	0.00)	DC	

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



```
*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, NV Feb 15-16, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
      *** MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
    *** Message Summary : AERMOD Model Execution ***
                 ----- Summary of Total Messages
                                                                                                                                                           O Fatal Error Message(s)
45 Warning Message(s)
5 Informational Message(s)
  A Total of
A Total of
A Total of
A Total of 45 Warning Message(s) 5 Informational Message(s) 6 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 ***
                                                                                 *** FATAL ERROR MESSAGES
*******

*** WARNING MESSAGES

*******

*** WARNING MESSAGES

*******

*** WARNING MESSAGES

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*** WARNING MESSAGES

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*** WARNING MESSAGES

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*** WARNING MESSAGES

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*** WARNING MESSAGES

*** PARMING INDUT PARAMETER MAY BE OUT-OF-Range for Parameter

*** WARNING MESSAGES

*** W
  SO W320
SO W32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PLOTFILE
  OU W565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PLOTFILE
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## March Monitoring Event AERMOD Summary File: Institute

```
*** 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 MRY 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

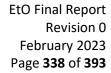
* Model Assumes No FLAGPOLE Receptor Heights.

* The User Specified a Pollurant Type of: OTHER
**Model Calculates PERIOD Averages Only
**This Run Includes: 26 Source(s);
                                                                        21 Source Group(s); and 15537 Receptor(s)
                                       7 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
19 VOLUME SOURCE(s)
0 AREA type source(s)
0 LINE source(s)
0 RLINE(RLINEXT source(s)
0 DEMPHIT source(s)
0 BUNYANT LINE source(s)
0 BUNYANT LINE source(s)
0 SWPOINT source(s)
                         with:
                           and:
and:
**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)
**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
**Approximate Storage Requirements of Model =
                                                                                  14.6 MB of RAM.
**Input Runstream File:
**Output Print File:
**Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

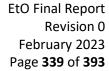




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

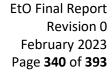
1.54, 3.09, 5.14, 8.23, 10.80,





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)

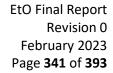




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

					str thr	CONC	OF (	ттс	ER I	N MI	CROGRAM	IS/M**	3				**		
GROUP ID					AVERAGE	CONC				RE	CEPTOR	(XR,	YR	, ZELEV,	ZHILL	, ZFLAG	) OF	TYPE	NETWORK GRID-ID
				-				-					-						
EODISTFL		HIGHEST				19664	AT	(	432342	.99,	42492			219.30,		.70,	0.00		
	2ND	HIGHEST	VALUE	IS	0.	19351	AT	(	432331	.66,	42492			216.70,		.70,	0.00	) DC	
		HIGHEST			0.	15787	AT	(	432092	.99,	42492			219.60,		.50,	0.00		
		HIGHEST			0.	14866	AT	(	432392	.99,	42491			215.80,		.70,	0.00		
		HIGHEST			0.	13966	AT	(	432142	.99,	42492			216.80,		.50,	0.00		
		HIGHEST			0.	12767	AT	Č	432192	.99,	42492			215.90,		.50,	0.00		
		HIGHEST			0.	11995	AT	(	432292	.99,	42493			221.20,		.50,	0.00		
		HIGHEST			0.	11030	AT	Č	432242	.99,	42493			216.20,		.50,	0.00		
		HIGHEST			Ü.	10011	AT	(	432492	.99,	42491			215.50,		.70,	0.00		
		HIGHEST			0.	10209	AI	(	432231	. 66,	42493			215.60,	326	.50,	0.00	) DC	
EODPOINT	1st	HIGHEST	VALUE	IS	0.	19664	AT	(	432342	.99,	42492	30.00		219.30,	325	.70,	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.	19351	AT	(	432331	.66,	42492	18.67	,	216.70,	325	.70,	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.	15787	AT	(	432092	.99,	42492	80.00	,	219.60,		.50,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.	14866	AT	(	432392	.99,	42491	.80.00	,	215.80,		.70,	0.00		
	5TH	HIGHEST	VALUE	IS	0.	13966	AT	(	432142	.99,	42492	80.00	,	216.80,		.50,	0.00		
	6ТН	HIGHEST	VALUE	IS	0.	12767	AT	(	432192	.99,	42492	80.00	,	215.90,		.50,	0.00		
	7TH	HIGHEST	VALUE	IS	0.	11995	AT	(	432292	.99,	42493	30.00		221.20,		.50,	0.00		
	8TH	HIGHEST	VALUE	IS	0.	11030	AT	(	432242	.99,	42493	30.00	,	216.20,		.50,	0.00		
	9ТН	HIGHEST	VALUE	IS	0.	10611	AT	Ċ	432492	.99,	42491	.30.00	,	215.50,		.70,	0.00		
	10TH	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0.	10209	AT	(	432231	. 66,	42493	18.67	,	215.60,	326	.50,	0.00	) DC	
EODRAILF		HIGHEST							431386					182.00.	328	.25.	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.	04822	AT	(	431731	.66.	42492	18.67		185.40,	328	.30.	0.00	DC	
	3RD	HIGHEST	VALUE	IS	0.	04589	AT	Ċ	431742	.99,	42492	30.00	,	186.00,	328	.30,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0.	04419	AT	(	432114	.34,	42490	63.48	,	183.18,	326	.46,	0.00	) DC	
		HIGHEST			0.				431792					186.20,		.30,	0.00		
		HIGHEST			0.				431692					185.80,		.30,	0.00		
		HIGHEST			0.				432292					192.00,		.50,	0.00		
		HIGHEST			0.				432331					193.60,		.50,	0.00		
	9ТН	HIGHEST	VALUE	IS	0.	03976	AT	Ċ	431531	.66,	42492			184.80,		.30,	0.00		
	10TH	HIGHEST	VALUE	IS	0.	03881	AT	(	431631	.66,	42492	18.67	,	185.70,	328	.30,	0.00	) DC	
EODPUMPF	1ST	HIGHEST	VALUE	IS	0. 0. 0. 0. 0. 0. 0. 0.	17562	AT	C	431386	.12.	42489	44.69		182.00.	328	.25.	0.00	DC	
	2ND	HIGHEST	VALUE	IS	0.	10203	AT	Ċ	431731	.66.	42492			185.40,		.30,	0.00		
	3RD	HIGHEST	VALUE	IS	0.	09507	AT	è	431742	.99	42492			186.00.		.30,	0.00		
	4TH	HIGHEST	VALUE	IS	0.	08309	AT	Ć	431692	.99.	42492	30.00	,	185.80,	328	.30,	0.00	DC	
	5TH	HIGHEST	VALUE	IS	0.	08122	AT	(	431531	.66,	42492			184.80,		.30,	0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.	08032	AT	(	431492	.99,	42492			186.60,		.30,	0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.	07969	AT	(	432114	.34,	42490	63.48	,	183.18,	326	.46,	0.00		
	8TH	HIGHEST	VALUE	IS	0.	07933	AT	(	431631	.66,	42492			185.70,		.30,	0.00		
	9тн	HIGHEST	VALUE	IS	0.	07725	AT	(	431231	.66,	42492			183.90,		.30,	0.00		
	10TH	HIGHEST	VALUE	IS	0.	07528	AT	(	431642	.99,	42492	30.00		185.50,	328	.30,	0.00	) DC	

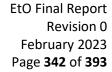




\*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

					** CONC (	)F	отн	ER IN MI	CROGRAM	IS/M**	3				命令		
ROUP ID					AVERAGE CONC			RE	CEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
	-			-		-	-										
ODTANKE	1ST	HIGHEST	VALUE	IS				431386.12,				182.00,	328.		0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.05539	AT	C	431692.99,	42492	30.00	,	185.80,	328.	30,	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.05285	AT		431731.66,				185.40,	328.		0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.04886	AT	(	431631.66,	42492	18.67		185.70,	328.	30,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.04844	AT	(	431231.66,	42492			183.90,	328.		0.00	) DC	
	6TH	HIGHEST	VALUE	IS	0.04789	AT	(	431742.99,	42492			186.00,	328.	30,	0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.04745	AT	(	431642.99,	42492	30.00		185.50,	328.	30,	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.04611	AT	(	431531.66,	42492	18.67		184.80,	328.	30,	0.00	) DC	
	9TH	HIGHEST	VALUE	IS	0.04584	AT	(	431492.99.	42492	30.00		186.60,	328.	30,	0.00	) DC	
	10TH	HIGHEST	VALUE	IS	0.04497	AT	(	431242.99,	42492	30.00	,	184.40,	328.	30,	0.00	) DC	
ODFLARF	1st	HIGHEST	VALUE	IS	0.04844 0.04789 0.04745 0.04611 0.04584 0.04497 0.01951 0.01877	AT	(	431731.66,	42492	18.67	,	185.40,	328.		0.00		
		HIGHEST		IS	0.01877	AT	(	431742.99,	42492		,	186.00,	328.		0.00		
		HIGHEST										184.50,	328.		0.00		
		HIGHEST						431542.99,				185.50,	328.		0.00		
	5TH	HIGHEST	VALUE	IS				431386.12,	42489	44.69		182.00,	328.		0.00	) DC	
	6TH	HIGHEST	VALUE	IS				431792.99,		30.00		186.20,	328.		0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.01506	AT	(	431531.66,	42492	18.67		184.80,	328.	30,	0.00	) DC	
	8TH	HIGHEST	VALUE	IS				431631.66,	42492	18.67	,	185.70,	328.	30,	0.00	) DC	
		HIGHEST						431692.99,		30.00		185.80,	328.		0.00	) DC	
	10TH	HIGHEST	VALUE	IS	0.01467	AT	(	431342.99,	42492	30.00	,	184.80,	328.	30,	0.00	) DC	
ODR25F		HIGHEST						431792.99,				186.20,	328.		0.00		
		HIGHEST			0.05176		(	431892.99,	42492			187.60,	326.		0.00		
	3RD	HIGHEST	VALUE	IS	0.04339	AT	(	431831.66,	42492	18.67	,	186.20,	328.	30,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS				431842.99,		30.00		186.80,	328.	30,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.03041			431992.99,				186.60,	326.		0.00	) DC	
	6TH	HIGHEST	VALUE	IS				431931.66,				187.70,	326.		0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.02128			432142.99,	42491	30.00	,	186.10,	326.	50,	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.02126	AT	(	431742.99,	42492	30.00		186.00,	328.	30,	0.00	) DC	
	9 <b>T</b> H	HIGHEST	VALUE	IS	0.02018			432042.99,		80.00		186.60,	326.		0.00	) DC	
	10TH	HIGHEST	VALUE	IS	0.01844	AT	(	431942.99,	42492	30.00	,	187.60,	326.	50,	0.00	) DC	
ODFUGI		HIGHEST			0.41871			431386.12,				182.00,	328.		0.00		
		HIGHEST			0.24060			431731.66,	42492			185.40,	328.		0.00		
		HIGHEST			0.22889			431742.99,	42492			186.00,	328.		0.00		
		HIGHEST			0.21897			431792.99,		30.00		186.20,	328.		0.00		
	5TH	HIGHEST	VALUE	IS	0.20552			431692.99,	42492	30.00	,	185.80,	328.		0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.18726			431631.66,		18.67		185.70,	328.		0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.18472			431531.66,				184.80,	328.		0.00	) DC	
		HIGHEST			0.18183	AT	(	431831.66,	42492	18.67	,	186.20,	328.		0.00	) DC	
		HIGHEST			0.18137	AT	(	431642.99,	42492	30.00	,	185.50,	328.	30,	0.00	) DC	
	10TH	HIGHEST	VALUE	IS	0.17783	AT	(	431492.99,	42492	30.00		186.60,	328.	30,	0.00	) DC	

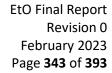




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

					**	CONC	OF	OTHE	ER	IN M	ICROGRAM	MS/M**	3					**		
GROUP I	)			A	VERAGE	E CONC				R	ECEPTOR	(XR,	YR,	ZELEV	, ZHIL	L, ZFL	AG)	OF	TYPE	NETWORK GRID-ID
								-										-	_	
EODIST		EGHEST		IS	(						, 42489			182.00		8.25,		.00)		
		IGHEST		IS	(	0.2465			43173			218.67		185.40	32	8.30,		.00)		
		IGHEST		IS	,	0.2433		[ (	43233	1.66	, 4249	218.67	,	216.70	32	5.70,		.00)		
		IGHEST		IS	,	0.2353			43174			230.00 230.00		186.00 219.30		8.30,		(00)		
		EGHEST		15	2	0.2283			43179			230.00		186.20		5.70, 8.30.		.00)		
		EGHEST		TC	- 2	).2155			43239			180.00		215.80		5.70.		.00)		
		EGHEST		TS		).2114			43169			230.00		185.80		8.30,		.00)		
		EGHEST		TS	ì				43123			218.67		183.90		8.30,		.00)		
	10TH HI			IS					43163			218.67		185.70		8.30,		.00)		
221A		EGHEST				0.0691			43253			218.67		237.10		5.60,		.00)	DC	
		EGHEST							43239			280.00		237.90		2.40,		.00)		
		EGHEST							43244			230.00		233.60		2.40,		.00)	DC	
		EGHEST		IS	١				43249			230.00		240.00		2.40,		.00)		
		IGHEST		15	,	0.0622			43263			218.67		237.40		5.70,		.00)		
		IGHEST IGHEST		15	,	0.0585			43254			230.00 380.00		240.30 236.10		2.40, 6.50,		.00)		
		EGHEST		15	- 2				43211			306.86		236.60		6.50.		.00)		
		EGHEST		TC	,				43212			316.23		238.60		2.40.		.00)		
	10TH HI			IS					43213			318.67		238.40		2.40,		.00)		
230M	1ST HI	GHEST	VALUE	IS					43193	1.66	, 4248:	118.67		180.80		4.60,	0	.00)	DC	
	2ND HI	EGHEST	VALUE	IS		1209			43189			080.00		172.80	31-	4.60,		.00)		
		EGHEST				0.1149			43303			718.67		187.40		5.70,		.00)		
		EGHEST		IS	(	).1137			43187	9.22	, 42480	066.23		172.80		4.60,		.00)		
		EGHEST		IS	(	0.0979			43293			718.67		184.60		5.70,		.00)		
		EGHEST		IS	9	0.0959	6 AT	[ (	43184			030.00		172.80		4.60,		.00)		
		EGHEST		15	١	0.0907	/ AI	į	43183			018.67		172.80		4.60,		.00)		
		IGHEST		IS	,	0.0845			43211 43313			063.48 718.67		183.18 197.60		6.46, 5.70,		.00)		
	10TH HI	EGHEST EGHEST		IS					43293			418.67		182.10		6.30,		.00)		
230L	1ST HI	IGHEST	VALUE			0.7224	13 AT		43193	1.66	. 42483	118.67		180.80	31-	4.60.	0	.00)	DC	
		IGHEST				5756			43189			080.00		172.80		4.60.		.00)		
		EGHEST				5703			43303			718.67		187.40		5.70,		.00)		
		EGHEST			(	).5414	19 AT	г (	43187	9.22	42480	066.23	3,	172.80	31	4.60,		.00)		
		EGHEST		IS		.4768	84 AT	Γ(	43293			718.67		184.60		5.70,		.00)	DC	
		EGHEST		IS	(	).4571	9 AT	Г (	43184			030.00		172.80		4.60,		.00)	DC	
	7TH HI	EGHEST	VALUE	IS	(	0.4325	4 AT	Г (	43183			018.67		172.80	31	4.60,		.00)		
		EGHEST		IS	(	3982			43211			063.48		183.18		6.46,		.00)		
		EGHEST		IS					43323			818.67		195.00		5.70,		.00)		
	10TH HI	EGHEST	VALUE	IS	(	3548	80 AT	Γ(	43179	2.99	, 42479	980.00	),	172.80	31	4.60,	0	.00)	DC	

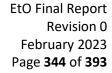




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

					命權	CONC C	FC	тн	ER IN MI	ROGRAM	IS/M**	3				**		
GROUP I	D			AV	ERAGE	CONC	_	_	REG	EPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF T	YPE	NETWORK GRID-ID
230к	1ST	HIGHEST	VALUE	TS	0	14320	ΔТ	(	431931 66	47481	18 67		180.80,	314.	60 (	0.00)	DC	
LJOK		HIGHEST		IS	0.	11440	AT	Č	431892.99.	42480	80.00		172.80,			(00.0	DC	
		HIGHEST		IS	0.	10763	AT	Ò	431879.22.	42480	66.23	1	172.80,	314.		(00.0	DC	
		HIGHEST		IS	0.	10738	AT	Ĉ	433031.66,	42487	18.67		187.40,	325.	70,	(00.0	DC	
	5TH	HIGHEST	VALUE	IS	0.	09513	AT	(	432931.66,	42487	18.67	,	184.60,	325.		(00.0	DC	
	6ТН	HIGHEST	VALUE	IS	0.	09083	AT	(	431842.99,	42480	30.00	,	172.80,	314.		(00.0	DC	
		HIGHEST		IS	0.	08589	AT	(	431831.66,	42480	18.67	,	172.80,	314.		(00.0)	DC	
		HIGHEST		IS	0.	07243	AT	(	433231.66,	42488	18.67	,	195.00,	325.		(00.0	DC	
		HIGHEST		IS	0.	07072	AT	(	432931.66,	42484	18.67	,	182.10,	316.		(00.0	DC	
		HIGHEST		IS	0.	07026	AT	(	431931.66, 431892.99, 431879.22, 433031.66, 432931.66, 431842.99, 431831.66, 433231.66, 432931.66, 431792.99,	42479	80.00	,	172.80,	314.	60,	(00.0	DC	
2300	1st	HIGHEST	VALUE	IS	0.	04875	AT	(	433331.66,	42489	18.67	,	214.60,	325.		(00.0	DC	
	2ND	HIGHEST	VALUE	IS	0.0	04411	AT	Č	432703.87,	42491	10.67	,	213.40,	325.		(00.0	DC	
	3RD	HIGHEST	VALUE	15	0.1	04323	AT	Č	433431.66,	42488	18.67	*	209.20,	325.		(00.0	DC	
	4TH	HIGHEST	VALUE	IS	0.1	042/1	AT	Č	433631.66,	42487	18.67	,	210.80,	306.	60,	(00.0	DC	
	STH	HIGHEST	VALUE	15	0.	04140	AI	Ç	434031.66,	42484	18.67		211.60,	306.		(00.0	DC	
	7771	HIGHEST	VALUE	15	0.	04095	AI	5	433531.00,	42487	10.07		209.50, 215.50.	306. 325.		(00.0	DC	
	/ IH	HIGHEST	VALUE	15	0.	04092	AT	>	433431.00,	42409	10.07	,	211.30,	325.		0.00)	DC	
	OTH	HIGHEST	VALUE	TC	0.	03004	AT	2	433129.22,	42490	100.23	,	211.30,	306.		0.00)	DC	
	10TH	HIGHEST	VALUE	IS	0.	03711	AT	Ċ	433331.66, 432703.87, 433431.66, 433631.66, 434031.66, 433531.66, 433431.66, 433129.22, 433531.66, 433631.66,	42485	18.67	,	209.50,	304.		(00.0	DC	
230нн		HIGHEST				00000			0.00,		0.00		0.00.	0	00,	(00.0		
		HIGHEST				00000			0.00,		0.00		0.00,			(00,0		
		HIGHEST			0.	00000	AT	è	0.00		0.00		0.00,	Õ.		(00.0		
	4TH	HIGHEST	VALUE	IS		00000			0.00,		0.00		0.00,			(00.0		
	5TH	HIGHEST	VALUE	IS	0.	00000	AT	Ĉ	0.00,		0.00		0.00,	0.	00, (	(00.0		
		HIGHEST				00000			0.00,		0.00		0.00,			(00,0		
	7TH	HIGHEST	VALUE	IS	0.	00000	AT	(	0.00,		0.00		0.00,	0.	00, (	(00.0		
	8TH	HIGHEST	VALUE	IS	0.	00000	AT	(	0.00,		0.00		0.00,	0.	00, (	(00.0		
		HIGHEST			0.	00000	AT	(			0.00	,	0.00,	0.	00, (	(00.0		
	10TH	HIGHEST	VALUE	IS	0.	00000	AT	(	0.00,		0.00	,	0.00,	0.	00,	(00.0		
PPOINT		HIGHEST		IS					431931.66,			,	180.80,	314.		(00.0	DC	
		HIGHEST							431892.99,		180.00		172.80,	314.		(00.0	DC	
		HIGHEST				81357			433031.66,		18.67		187.40,	325.		(00.0	DC	
		HIGHEST			0.	77549	AT	(	431879.22,		166.23	,	172.80,	314.		(00.0	DC	
		HIGHEST				69127			432931.66,		18.67		184.60,	325.		0.00)	DC	
	6ТН	HIGHEST	VALUE	IS	0.	65470	AT	(	431842.99,		30.00	,	172.80,	314.		(00.0	DC	
	7TH	HIGHEST	VALUE	IS	0.	61936			431831.66,		18.67	,	172.80,	314.		(00.0	DC	
	8TH	HIGHEST	VALUE	IS	0.				432114.34,		63.48		183.18,			(00.0	DC	
	9тн	HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.				433231.66,		18.67		195.00,			(00.0	DC	
	10TH	HIGHEST	VALUE	IS	0.	51095	AT	(	433131.66,	42487	18.67	,	197.60,	325.	70, (	(00.0	DC	



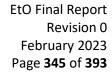


\*\*\* AERMEI - VERSION ZZIIZ \*\*\* \*\*\* ETNYIENE OXIGE DISTRIBUTION AND POLYXX PROCESSES

\*\*\* MODELOPTS: REGDEAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

POLYVOL1 1ST HIGHEST VALUE IS 0.02621 AT ( 432831.66, 4248318.67, 2ND HIGHEST VALUE IS 0.02321 AT ( 432879.22, 4248318.67, 3RD HIGHEST VALUE IS 0.02001 AT ( 432931.66, 4248218.67, 47H HIGHEST VALUE IS 0.01760 AT ( 432931.66, 4248218.67, 5TH HIGHEST VALUE IS 0.01701 AT ( 433031.66, 4248218.67, 4248218.67)	YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID	
		)
POLYVOL1 1ST HIGHEST VALUE IS 0.02621 AT ( 432831.66, 4248318.67, 2ND HIGHEST VALUE IS 0.02321 AT ( 432879.22, 4248316.23, 3RD HIGHEST VALUE IS 0.02001 AT ( 432931.66, 4248318.67, 41H HIGHEST VALUE IS 0.01760 AT ( 432931.66, 4248218.67, 5TH HIGHEST VALUE IS 0.01761 AT ( 432931.66, 4248218.67,		
2ND HIGHEST VALUE IS 0.02321 AT ( 432879.22, 4248316.23, 474 HIGHEST VALUE IS 0.02001 AT ( 432931.66, 4248318.67, 474 HIGHEST VALUE IS 0.01760 AT ( 432931.66, 4248218.67, 574 HIGHEST VALUE IS 0.01701 AT ( 433931.66, 4248218.67,	, 182.30, 314.60, 0.00) DC	
3RD HIGHEST VALUE IS 0.02001 AT ( 432931.66, 4248318.67, 4TH HIGHEST VALUE IS 0.01760 AT ( 432931.66, 4248218.67, 5TH HIGHEST VALUE IS 0.01701 AT ( 433031.66, 4248218.67,		
4TH HIGHEST VALUE IS 0.01760 AT ( 432931.66, 4248218.67, 5TH HIGHEST VALUE IS 0.01701 AT ( 433031.66, 4248218.67,		
5TH HIGHEST VALUE IS 0.01701 AT ( 433031.66, 4248218.67,		
Sin intalies value is stated at ( 155052100, 121022010),		
6TH HIGHEST VALUE IS 0.01677 AT ( 432831.66, 4248218.67,		
7TH HIGHEST VALUE IS 0.01557 AT ( 433031.66, 4248318.67,		
8TH HIGHEST VALUE IS 0.01554 AT ( 433131.66, 4248218.67,		
9TH HIGHEST VALUE IS 0.01383 AT ( 433231.66, 4248218.67,		
10TH HIGHEST VALUE IS 0.01351 AT ( 433119.85, 4248306.86,		
1011 H201231 VALUE 13 0.01331 A1 ( 433113.03, 4240300.00,	, 103.30, 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,		
3RD HIGHEST VALUE IS 0.00453 AT ( 433119.85, 4248806.86,		
4TH HIGHEST VALUE IS 0.00372 AT ( 433379.22, 4248816.23,		
5TH HIGHEST VALUE IS 0.00350 AT ( 433331.66, 4248718.67,		
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,		
8TH HIGHEST VALUE IS 0.00322 AT ( 433131.66, 4248918.67,		
9TH HIGHEST VALUE IS 0.00284 AT ( 432131.66, 4249218.67.		
PBL8389 1ST HIGHEST VALUE IS 0.00510 AT ( 433129.22, 4248816.23,	, 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,		
3RD HIGHEST VALUE IS 0.02120 AT ( 432931.66, 4248318.67,		
4TH HIGHEST VALUE IS 0.01876 AT ( 432931.66, 4248218.67,		
5TH HICHEST VALUE TO 0.01920 AT ( 433031 66 4248218 67		
6TH HIGHEST VALUE IS 0.01781 AT ( 432831.66, 4248218.67,		
7TH HIGHEST VALUE IS 0.01674 AT ( 433131.66, 4248218.67,		
8TH HIGHEST VALUE IS 0.01662 AT ( 433031.66, 4248318.67,		
9TH HIGHEST VALUE IS 0.01501 AT ( 433231.66, 4248218.67,		
6TH HIGHEST VALUE IS 0.01624 AT (432331.66, 4248218.67, 7TH HIGHEST VALUE IS 0.01674 AT (433131.66, 4248218.67, 8TH HIGHEST VALUE IS 0.01662 AT (433031.66, 4248218.67, 9TH HIGHEST VALUE IS 0.01501 AT (433231.66, 4248218.67, 10TH HIGHEST VALUE IS 0.01450 AT (433231.66, 4248218.67, 0.01450 AT (433211.85, 4248218.67, 0.01450 AT (43321.85, 4248218.67, 0.01450 AT (4342218.67, 0.0		
1011 11411231 VALUE 13 0.01430 A1 ( 433113.03, 4240300.00,	, 103.30, 304.30, 0.00) 50	
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,		
3RD HIGHEST VALUE IS 0.82323 AT ( 433031.66, 4248718.67,		
4TH HIGHEST VALUE IS 0.78466 AT ( 431879.22, 4248066.23,		
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,		
7TH HIGHEST VALUE IS 0.62690 AT ( 431831.66, 4248018.67,		
8TH HIGHEST VALUE IS 0.55086 AT ( 432114.34, 4249063.48,		
9TH HIGHEST VALUE IS 0.53502 AT ( 433231.66, 4248818.67,		
10TH HIGHEST VALUE IS 0.52291 AT ( 433131.66, 4248718.67,	. 197.60, 325.70, 0.00) DC	





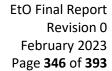
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

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

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

GROUP ID		A	VERAGE CONC	REC	EPTOR (XR, Y	R, ZELEV,	ZHILL, ZFLAG	) OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST	VALUE IS	1.08913 AT (	431931.66,	4248118.67,	180.80,	314.60,	0.00) DO	
	2ND HIGHEST	VALUE IS	0.91673 AT (	433031.66,	4248718.67.	187.40,	325.70.	0.00) DO	
	3RD HIGHEST	VALUE IS	0.86758 AT (	431892.99,	4248080.00,	172.80,	314.60,	0.00) DO	
	4TH HIGHEST	VALUE IS	0.81757 AT (	431879.22,	4248066.23,	172.80,	314.60,	0.00) DO	
	5TH HIGHEST	VALUE IS	0.80874 AT (	432931.66.	4248718.67.	184.60,	325.70.	0.00) DO	
	6TH HIGHEST	VALUE IS	0.72641 AT (	432114.34.	4249063.48.	183.18.	326.46.	0.00) DO	
	7TH HIGHEST	VALUE IS	0.69407 AT (	431842.99.	4248030.00.	172.80.	314.60.	0.00) DO	
	8TH HIGHEST	VALUE IS	0.65794 AT (	431831.66,	4248018.67,	172.80,	314.60,	0.00) DO	
	9TH HIGHEST	VALUE IS	0.59288 AT (	433131.66,	4248718.67,	197.60,	325.70,	0.00) DO	
	10TH HIGHEST	VALUE IS	0.59169 AT (	433231.66,	4248818.67,	195.00,	325.70,	0.00) DO	

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







## March Monitoring Event AERMOD Summary File: South Charleston

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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, MV Mar 23-24, 2022 Monitoring Eve ***

*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
 *** MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
 *** MODEL SETUP OPTIONS SUMMARY ***
** Model Options Selected:

* Model Uses Regulatory DEFAULT Options

* 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 NORY DEPLETION. DDPLETE = F

* Model Uses NO MET DEPLETION. WETDPLT = F

* Stack-tip Downwash.

* Model Accounts for ELEVATED TERRATE EFFECTS.

* Use Calms Processing Routine.

* Use Missing Data Processing Routine.

* Use Missing Data Processing Routine.

* No Exponential Decay.

* Model Uses RURAL Dispersion only.

Option for Capped & Horiz Stacks Selected with:

* O Capped Stack(S): and

* ADI_U* — Use ADI_U* Option for SBL in AERMET

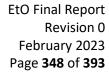
* Model Assumes No FLAGPOLE Receptor Heights.

* 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)
                                                102 POINT(s), including
0 POINT(s), including
15 VOLUME SOURCE(s)
1 AREA type SOURCE(s)
1 LINE SOURCE(s)
0 RILNE(RILNEXT SOURCE(s)
0 DEMPHIT SOURCE(s)
0 BUVANT LINE SOURCE(s)
0 SWPOINT SOURCE(s)
0 SWPOINT SOURCE(s)
                               with:
 **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.
 **Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```





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

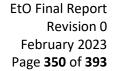
\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC)  $\ensuremath{\mbox{\sc heat}}$ 

1.54, 3.09, 5.14, 8.23, 10.80,



\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, NV Mar 23-24, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\* \*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Met Version: 22112 First 24 hours of scalar data YR MO DY JDY HR HO U\*  $W^{\!\!\!/\!\!\!\!/}$  DT/DZ ZICNV ZIMCH M-O LEN Z $\!\!\!\!/$  BOWEN ALBEDO REF WS WD HT REF TA 1.00 1.00 1.00 1.00 1.00 1.00 0.36 0.22 0.18 0.16 0.16 0.16 0.16 0.18 0.21 0.33 0.21 0.33 0.21 0.30 280.9 280.3 279.8 278.8 279.2 278.8.1 279.8 283.1 293.8 293.8 294.9 295.5 296.8 295.9 295.9 293.9 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 -099. 0 -99.00 281.0 99.0 -99.00 -99.00

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



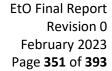


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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

			** CONC OF OT	HER IN MI	ROGRAMS/M <sup>☆</sup>	*3		杂妆	
GROUP I	D	_	AVERAGE CONC	REG	EPTOR (XR,	YR, ZELEV,	ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
HMIX	1ST HIGHEST VALUE	T	0 02698 AT (	440277 01	4246783 81	L, 183.80,	284.10,	0.00) De	-
	2ND HIGHEST VALUE		0.02328 AT (	440227.01.	4246783.81	183.70,		0.00) D	
	3RD HIGHEST VALUE		0.01772 AT (	440177.01.	4246733.81	181.40,		0.00) D	
	4TH HIGHEST VALUE		0.01380 AT (	440277.01.	4246733.81	183.70,		0.00) D	
	5TH HIGHEST VALUE		0.01148 AT (	440315.68.	4246722.48	3, 184.10,		0.00) D	
	6TH HIGHEST VALUE	IS	0.01081 AT (	440515.68.	4246822.48	3, 173.10,	302.70.	0.00) DO	
	7TH HIGHEST VALUE	IS	0.01065 AT (	440127.01,	4246683.83	180.50,		0.00) DO	
	8TH HIGHEST VALUE	IS	0.01023 AT (	440327.01,	4246733.81	L, 184.40,	284.10,	0.00) DO	
	9TH HIGHEST VALUE	IS	0.01016 AT (	440177.01,	4246683.81	180.30,		0.00) DO	
	10TH HIGHEST VALUE	19	0.02698 AT ( 0.02328 AT ( 0.01328 AT ( 0.01772 AT ( 0.01380 AT ( 0.01148 AT ( 0.01081 AT ( 0.01005 AT ( 0.01005 AT ( 0.01005 AT ( 0.01006 AT ( 0.01008 AT (	440215.68,	4246722.48	8, 181.80,	284.10,	0.00) D	
lrx	1ST HIGHEST VALUE		0.00287 AT (	440077.01,	4247283.83	L, 173.10,		0.00) D	
	2ND HIGHEST VALUE							0.00) Do	
	3RD HIGHEST VALUE							0.00) Do	
	4TH HIGHEST VALUE							0.00) D	
	5TH HIGHEST VALUE			439827.01,	4247133.83			0.00) D	
	6TH HIGHEST VALUE			439915.68,	4247322.48	3, 173.10,		0.00) D	
	7TH HIGHEST VALUE			440127.01,	4247283.81	L, 173.10,		0.00) D	
	8TH HIGHEST VALUE							0.00) DO	
	9TH HIGHEST VALUE							0.00) D	
	10TH HIGHEST VALUE	IS	0.00197 AT (	439915.68,	424/122.48	3, 173.10,	184.60,	0.00) D	
2RX	1ST HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	2ND HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	3RD HIGHEST VALUE			0.00,	0.00 0.00 0.00	0.00,		0.00)	
	4TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	5TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	6TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	7TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	8TH HIGHEST VALUE				0.00	0.00,		0.00)	
	9TH HIGHEST VALUE				0.00	0.00,		0.00)	
	10TH HIGHEST VALUE	IS	0.00000 AT (	0.00,	0.00	0.00,	0.00,	0.00)	
BRX	1ST HIGHEST VALUE				0.00	0.00,		0.00)	
	2ND HIGHEST VALUE							0.00)	
	3RD HIGHEST VALUE				0.00	0.00,		0.00)	
	4TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	5TH HIGHEST VALUE				0.00	0.00,	0.00,	0.00)	
	6TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	7TH HIGHEST VALUE			0.00,	0.00	0.00,		0.00)	
	8TH HIGHEST VALUE				0.00	0.00,		0.00)	
	9TH HIGHEST VALUE				0.00	0.00,		0.00)	
	10TH HIGHEST VALUE	15	0.00000 AT (	0.00,	0.00	0.00,	0.00,	0.00)	



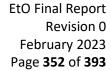


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\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					50 M	CONC	OF	OTHE	ER I	N M	II CROGRAM	IS/M**	3				St W		
GROUP	ID				AVERAGE	CONC				R	ECEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
								-		_			_					_	
789RX		HIGHEST			0						, 42469		,	173.10,	183.		0.00)		
		HIGHEST									, 42469		,	173.10,	183.		(00.0)		
		HIGHEST			0	.02072	AT	(	440327				,	173.10,	183.		0.00)		
		HIGHEST			0	01891			440315					173.10,			0.00)		
		HIGHEST			0				440277					173.10,			0.00)		
		HIGHEST			0				440027					182.00,			0.00)		
		HIGHEST			0				440115					183.50,			0.00)		
		HIGHEST			0				440077					182.10,			0.00)		
		HIGHEST			0				440227					173.10,			0.00)		
	10TH	HIGHEST	VALUE	IS	0	.01123	AT	(	440027	.01	., 42468	33.81	,	183.70,	183.	70,	0.00)	DC	
POINT		HIGHEST			0 0 0 0 0 0 0 0	02431	. AT	(	440177	.01	, 42469	83.81	ÿ	173.10,			0.00)		
		HIGHEST			0						, 42469		,	173.10,	183.		0.00)		
		HIGHEST			0				440327				,	173.10,	183.		0.00)		
		HIGHEST			0				440315				,	173.10,	283.		0.00)		
		HIGHEST			0				440277					173.10,			0.00)		
		HIGHEST			0				440027					182.00,			0.00)		
		HIGHEST			0				440115				,	183.50,	183.		0.00)		
		HIGHEST			0				440227				,	173.10,			0.00)		
		HIGHEST			0				440077					182.10,	284.		0.00)		
		HIGHEST									, 42468			183.70,	183.	70,	0.00)	DC	
E003F	1ST	HIGHEST	VALUE	IS	0	.04048	AT	(	439915	. 68	, 42473	22.48	,	173.10,			0.00)		
	2ND	HIGHEST	VALUE	IS	0	.03887	AT	(	439927	.01	., 42473	33.81	,	173.10,	327.		0.00)		
	3RD	HIGHEST	VALUE	IS	0	.02603	AT	(	439877	.01	, 42473	33.81	,	173.10,			0.00)		
	4TH	HIGHEST	VALUE	IS	0	.02599	AT	(	439927	.01	., 42473	83.81	,	173.10,	327.	10,	0.00)		
	5TH	HIGHEST	VALUE	IS	0	.02564	AT	(	440077	.01	., 42472	83.81	,	173.10,			0.00)		
	6ТН	HIGHEST	VALUE	IS	0	.02336	AT	(	439877	.01	, 42473	83.81	,	173.10,			0.00)		
	7TH	HIGHEST	VALUE	IS	0	.02139	AT	(	440015	. 68	, 42473	22.48	,	173.10,			0.00)	DC	
	8TH	HIGHEST	VALUE	IS	0	.02135	AT	(	439963	.24	, 42473	70.04	,	173.10,			0.00)		
	9 <b>T</b> H	HIGHEST	VALUE	IS	0	.02101	. AT	(	439977	.01	, 42473	33.81	,	173.10,			0.00)		
	10TH	HIGHEST	VALUE	IS	0 0 0 0 0 0 0 0	.01996	AT	(	439915	. 68	, 42474	22.48	,	173.10,	327.	10,	0.00)	DC	
PIVE	1ST	HIGHEST	VALUE	IS	0	06101	. AT	(	440177	.01	, 42469	83.81	,	173.10,		90,	0.00)	DC	
		HIGHEST									, 42469			173.10,			0.00)		
		HIGHEST							440227					173.10,	272.		0.00)		
		HIGHEST							440277					173.10,			0.00)		
		HIGHEST				.03886			440127					173.10,			0.00)		
		HIGHEST							440177					173.10,			0.00)		
		HIGHEST				.03262			440227					173.10,			0.00)		
		HIGHEST									, 42473			173.10,			0.00)		
		HIGHEST							440327					173.10,			0.00)		
	10TH	HIGHEST	VALUE	IS	0	.03078	AT	(	440227	.01	, 42473	33.81		173.10,	272.	80,	0.00)	DC	



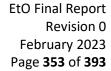


07/25/22

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC (	)F	ОТН	ER IN	MI	CROGRAM	S/M""	3				St W		
GROUP ID					AVERAGE CONC				RE	CEPTOR	(XR,	YR	ZELEV,	ZHILL,	ZFLAG	) OF	TYPE	NETWORK GRID-ID
				-		-	-					-				-		
CFUGIT	1ST	HIGHEST	VALUE	IS	0.06848	AT	(	440177.	01,	42469	83.81		173.10,	183.	90,	0.00	) DC	
		HIGHEST			0.06848 0.06674 0.05542 0.05249 0.05186 0.04900 0.04843 0.04597 0.04333								173.10,	183.		0.00		
		HIGHEST			0.05542	AT	· Č	440227.					173.10,	272.		0.00		
		HIGHEST			0.05249	AT	· è	440277.					173.10,	272.		0.00		
		HIGHEST			0.05186								173.10,	327.		0.00		
		HIGHEST			0.04900								173.10.	327.		0.00		
		HIGHEST			0.04843								173.10.	272.		0.00		
		HIGHEST			0.04597					42469			173.10,	184.		0.00		
		HIGHEST			0.04339								173.10,	272.		0.00		
		HIGHEST			0.04113								173.10.	272.		0.00		
	10111	HILDH	VALUE	13		711		1100771	01,	12112	03.01		1, 3, 10,	2,21	001	0.00	, ,,	
OVESTRO	1ST	HIGHEST	VALUE	TS	0.09279 0.08935 0.06840 0.06386 0.05835 0.05519	AT	(	440177.	01.	42469	83.81		173.10,	183.	90.	0.00	) DC	
		HIGHEST			0.08935								173.10,	183.		0.00		
		HIGHEST			0.06840								173.10,	272.		0.00		
		HIGHEST			0.06386								173.10,	272.		0.00		
		HIGHEST			0.05835								173.10.	272.		0.00		
		HIGHEST			0.05519								173.10,	327.		0.00		
		HIGHEST			0.05494					42469			173.10,	183.		0.00		
		HIGHEST			0.05405								173.10,	272.		0.00		
		HIGHEST											173.10,	327.		0.00		
		HIGHEST			0.05201								173.10,	184.		0.00		
									,								,	
TE10813	1ST	HIGHEST	VALUE	IS	0.00710	AT	. (	440077.	01.	42473	83.81		173.10,	327.	10.	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.00637	AT	. (	440077.	01.	42473	33.81		173.10,	327.	10.	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.00636	AT	Ċ	440077.	01,	42474	33.81		175.70,	327.	10,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS							22.48	Č.	173.10,	305.	60.	0.00	) DC	
	5TH	HIGHEST	VALUE	IS		AT	Ò	440101.	78.	42474			181.45,	327.		0.00	) DC	
	6TH	HIGHEST	VALUE	IS	0.00589	AT	(	440127.	01.	42473			173.10,	305.	60.	0.00	) DC	
		HIGHEST				AT	Ò	440127.	01.	42473			173.10,	327.		0.00		
		HIGHEST											206.10,	269.		0.00		
		HIGHEST				AT	. ?	440377	01	42464			209.00,	284.		0.00		
		HIGHEST						440077.					181.10,	327.		0.00		
	TOTH	manica	VALUE	13	0.00330	~ 1	-	440077.	UI,	76777	05.01	,	101.10,	JLI.	10,	0.00	, ,,	
_L_ALL	1ST	HIGHEST	VALUE	TS	0.00956	AT		440127	01	42472	83 81		173.10,	272.	80	0.00	) DC	
		HIGHEST			0.00861			440077.					173.10,	272.		0.00		
		HIGHEST			0.00691					42473			173.10,	272.		0.00		
								439977.					173.10,	184.		0.00		
		HIGHEST			0.00623								173.10,	272.		0.00		
					0.00585								173.10,	305.		0.00		
		HIGHEST																
		HIGHEST											173.10,	327.		0.00		
		HIGHEST											173.10,	305.		0.00		
		HIGHEST											173.10,	272.		0.00		
		HIGHEST		TS	0.00474	AΤ				42473			173.10.	327.			) DC	

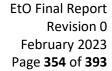




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC	OF	ОТН	ER IN M	ICROGRA	MS/M <sup>♠</sup>	*3				分价		
ROUP ID					AVERAGE CONC			R	ECEPTOR	(XR	, YR	, ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
				-			-										
Γ_T_ALL	1ST	HIGHEST	VALUE	IS	0.01251	AT	(	440077.01	, 4247	283.83	1,	173.10,	272.	80,	0.00	DC	
	2ND	HIGHEST	VALUE	IS	0.00921			440077.01		333.83	1,	173.10,	327.	10,	0.00	DC	
	3RD	HIGHEST	VALUE	IS	0.00758	AT	. (	440027.01		333.83	1,	173.10,	327.	10,	0.00	DC	
	4TH	HIGHEST	VALUE	IS	0.00693	AT	. (	440177.01		283.83		173.10,	272.	80,	0.00	DC	
		HIGHEST			0.00686			440227.01		283.83		173.10,	272.	80,	0.00	DC	
		HIGHEST			0.00669			440115.68		322.4		173.10,	305.		0.00		
	7TH	HIGHEST	VALUE	IS	0.00664			440015.68		322.4		173.10,	327.		0.00		
		HIGHEST			0.00656			440119.85		306.8		173.10,	272.		0.00		
		HIGHEST			0.00632			440127.01		283.83		173.10,	272.		0.00		
	10TH	HIGHEST	VALUE	IS	0.00626	AT	. (	440077.01	, 4247	383.8	1,	173.10,	327.	10,	0.00	DC	
_POINT		HIGHEST			0.02417			440077.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.02103			440077.01		333.8		173.10,	327.		0.00		
		HIGHEST			0.01997			440127.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.01873			440119.85		306.8		173.10,	272.		0.00		
		HIGHEST			0.01852			440115.68		322.4		173.10,	305.		0.00		
		HIGHEST			0.01702	AT	(	440077.01		383.8		173.10,	327.		0.00		
		HIGHEST			0.01649			440027.01		333.8		173.10,	327.		0.00		
		HIGHEST			0.01628			440127.01		333.8		173.10,	305.		0.00		
		HIGHEST			0.01537			440177.01		283.8		173.10,	272.		0.00		
	10TH	HIGHEST	VALUE	IS	0.01516	AT	(	440227.01	, 4247	283.8	Ι,	173.10,	272.	80,	0.00	DC	
THE		HIGHEST			0.01630			440127.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00915			440119.85		306.8		173.10,	272.	80,	0.00		
		HIGHEST			0.00699			440177.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00676	AT	(	440115.68	, 424/	322.4	Β,	173.10,	305.		0.00		
		HIGHEST			0.00563			440077.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00539			440127.01		333.8		173.10,	305.		0.00		
		HIGHEST			0.00531			440227.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00442			440077.01		333.8		173.10,	327.		0.00		
		HIGHEST			0.00318			440277.01		283.8		173.10,	272.		0.00		
	10TH	HIGHEST	VALUE	IS	0.00295	AT	(	440215.68	, 424/	322.4	Β,	173.10,	272.	80,	0.00	DC	
RF		HIGHEST			0.00700			440077.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00692			440127.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00597			440119.85		306.8		173.10,	272.		0.00		
		HIGHEST			0.00533	AT	. (	440115.68	, 4247	322.4	В,	173.10,	305.		0.00		
		HIGHEST			0.00500			440077.01		333.8		173.10,	327.		0.00		
		HIGHEST			0.00451			440127.01		333.8		173.10,	305.		0.00		
		HIGHEST			0.00360			440227.01		283.8		173.10,	272.		0.00		
		HIGHEST			0.00356			440027.01		333.8		173.10,	327.		0.00		
		HIGHEST			0.00354			440077.01		383.8		173.10,	327.		0.00		
	10TH	HIGHEST	VALUE	IS	0.00343	AT	. (	440177.01	, 4247	283.83	L,	173.10,	272.	80,	0.00	DC	

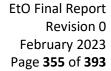




\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

						CONC	UF I	UIN	CK I	4 1417	LCKUGKAN	15/M	3						
GROUP ID				_	AVERAGE	CONC		-		RE	ECEPTOR	(XR,	YR,	ZELEV,	ZHILL	ZFLAG)	OF.	TYPE	NETWORK GRID-ID
TNC	1cT	HIGHEST	VALUE	TC	0	01347	ΔТ	(	430077	01	, 42473	133 81		173.10,	327	10	0.00	) DC	
1111		HIGHEST									42472			173.10.			0.00		
		HIGHEST				00853			440015			22.48		173.10.			0.00		
		HIGHEST							439963			70.04		173.10.			0.00		
		HIGHEST				00598			439927			33.81		173.10,			0.00		
		HIGHEST				00586			440027			33.81		173.10.			0.00		
		HIGHEST				00545			439977			83.81		173.10,			0.00		
		HIGHEST							440127			83.81		173.10.			0.00		
		HIGHEST				00486			439877			.33.81		173.10,			0.00		
		HIGHEST							440115			22.48		173.10			0.00		
	TOTH	HIGHEST	VALUE	13	0.	00404	AI	(	440113	, 00	, 424/3	122.40	,	1/3.10,	303	.00,	0.00	, ,,	
_FUGIT		HIGHEST							440127					173.10,			0.00		
		HIGHEST				02142			440077					173.10,			0.00		
		HIGHEST							440119					173.10,			0.00		
	4TH	HIGHEST	VALUE	IS					439977					173.10,			00.0		
	5TH	HIGHEST	VALUE	IS					440115			22.48		173.10,			0.00	) DC	
	6TH	HIGHEST	VALUE	IS					440077			33.81		173.10,			0.00	) DC	
		HIGHEST				01402			440177			83.81		173.10,			0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.	01393	AT	(	440127	.01	, 42473	33.81	,	173.10,	305	60,	0.00	) DC	
	9TH	HIGHEST	VALUE	IS	0.	01347	AT	(	440015	. 68	, 42473	22.48		173.10,	327	10,	0.00	) DC	
	10TH	HIGHEST	VALUE	IS	0.	01162	AT	(	440227	.01	, 42472	83.81	,	173.10,	272	.80,	0.00	) DC	
RITON	1ST	HIGHEST	VALUE	TS	0.	04828	AT	r	440127	.01	. 42472	83.81		173.10.	272	.80.	0.00	) DC	
		HIGHEST				04559			440077			83.81		173.10			0.00		
		HIGHEST				03825			440119			06.86		173.10	272	80.	0.00		
		HIGHEST				03544			440115			22.48		173.10			0.00		
		HIGHEST			0.	03509	AT	è	440077	.01	42473	33.81		173.10	327		0.00		
		HIGHEST				03021			440127			33.81	0 8	173.10	305		0.00		
		HIGHEST							440177			83.81		173.10			0.00		
		HIGHEST				02785			440027			33.81		173.10.			0.00		
		HIGHEST							440015					173.10			0.00		
		HIGHEST							440227			83.81		173.10			0.00		
								1											
A_E70XP		HIGHEST				27797	AT	(	439627			33.81		173.10,			0.00		
		HIGHEST			0.	26243	AT	(	439619			06.86		180.30,			0.00		
		HIGHEST			0.	25083	AT	(	440015			22.48		173.10,			0.00		
		HIGHEST			0.	24937	AT	(	440027			33.81		173.10,			0.00		
		HIGHEST				24226			439927			83.81		173.10,			0.00		
		HIGHEST				23776			440077			33.81		173.10,			0.00		
		HIGHEST				23030			440115			22.48		173.10,			0.00		
		HIGHEST				22209			439977			83.81		173.10,			0.00		
		HIGHEST				22117			440127			83.81		173.10,			0.00		
	10TH	HIGHEST	VALUE	IS	0.	21229	AT	(	440177	.01	42469	83.81	. 3	173.10,	183	90,	0.00	) DC	



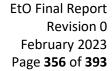


08:20:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

					** CONC	OF	OTH	HER IN M	ICROGR.	AMS/	M**	3				4	rate		
GROUP ID					AVERAGE CONC			R	ECEPTO	R (	XR,	YR,	ZELEV,	ZHILL	, ZFLAG	) (	)F T	YPE	NETWORK GRID-ID
				-			-										-		
DA_TALLP	1ST	HIGHEST	VALUE	TS	0.00483	AT	(	439727.01	, 424	7183	. 81		173.10,	311	.00.	0.0	000	DC	
		HIGHEST			0.00479					7083			173.10.	185		0.0		DC	
		HIGHEST			0.00468								173.10.	185		0.0		DC	
		HIGHEST			0.00453					7022			173.10,	184		0.0		DC	
		HIGHEST			0.00437					7183			173.10,	184		0.0	(00	DC	
		HIGHEST			0.00429				. 424	7033	.81		173.10.	184	.70.	0.0	(00	DC	
		HIGHEST						439677.01		7233			173.10.	327		0.0		DC	
		HIGHEST			0.00381					7083			173.10,	184		0.0		DC	
	9ТН	HIGHEST	VALUE	IS				439715.68					173.10,	327		0.0	(00	DC	
	10TH	HIGHEST	VALUE	IS	0.00374					7133			173.10,	184	.90,	0.0	00)	DC	
DA LALLP	1st	HIGHEST	VALUE	IS	0.00094	AT	(	439527.01	, 424	7133	.81		184.50,	184	.50.	0.0	(00	DC	
	2ND	HIGHEST	VALUE	IS	0.00089	AT	Ĉ	440015.68					173.10,	184		0.0	00)	DC	
	3RD	HIGHEST	VALUE	IS	0.00080	AT	(	439577.01	424	5933	.81		183.70,	183	.70.	0.0	(00	DC	
	4TH	HIGHEST	VALUE	IS	0.00079	AT	(	440027.01	. 424	7033	.81		173.10,	184	.70.	0.0	(00	DC	
	5TH	HIGHEST	VALUE	IS	0.00068	AT	(	439527.01	424	5933	.81		183.60,	183	.60.	0.0	(00	DC	
	6ТН	HIGHEST	VALUE	IS	0.00063	AT	(	439515.68	424	7122	.48		184.70,	184	.70	0.0	(00	DC	
	7TH	HIGHEST	VALUE	IS	0.00062	AT	(	439615.68	424	7222	.48		173.00.	327	.10,	0.0	(00	DC	
	8TH	HIGHEST	VALUE	IS	0.00062	AT	(	440077.01	. 424	7033	.81		173.10.	184	.70.	0.0	(00	DC	
	<b>9TH</b>	HIGHEST	VALUE	IS	0.00061	AT	(	439827.01	, 424	7133	.81		173.10,	185	.00,	0.0	(00	DC	
	10TH	HIGHEST	VALUE	IS	0.00060	AT	(	439927.01	, 424	7083	. 81		173.10,	185	.00,	0.0	00)	DC	
DA_POINT	1st	HIGHEST	VALUE	IS	0.28194					7233			173.10,	327		0.0		DC	
	2ND	HIGHEST	VALUE	IS	0.26558					7306			180.30,	327		0.0	(00	DC	
	3RD	HIGHEST	VALUE	IS	0.25625	AT	(	440015.68	, 424	7022	.48		173.10,	184	.90,	0.0	00)	DC	
	4TH	HIGHEST	VALUE	IS	0.25445					7033			173.10,	184		0.0		DC	
	5TH	HIGHEST	VALUE	IS	0.24766					7083	.81		173.10,	185	.00,	0.0	(00	DC	
		HIGHEST						440077.01		7033			173.10,	184		0.0		DC	
	7TH	HIGHEST	VALUE	IS	0.23431				, 424	7022	.48		173.10,	184	.10,	0.0	00)	DC	
	8TH	HIGHEST	VALUE	IS	0.22636					7083			173.10,	184	.70,	0.0		DC	
		HIGHEST			0.22512					5983			173.10,	184		0.0		DC	
	10TH	HIGHEST	VALUE	IS	0.21584	AT	(	440177.01	, 424	5983	. 81		173.10,	183	. 90 ,	0.0	00)	DC	
DAHR2F	1ST	HIGHEST	VALUE	IS	0.12431			439727.01	, 424	7183	. 81		173.10,	311	.00,	0.0	00)	DC	
		HIGHEST			0.09080			439827.01		7133			173.10,	185		0.0		DC	
	3RD	HIGHEST	VALUE	IS	0.06914								173.10,	185		0.0		DC	
	4TH	HIGHEST	VALUE	IS	0.06100			439715.68		7222			173.10,	327		0.0		DC	
		HIGHEST			0.05842								173.10,	184		0.0		DC	
		HIGHEST			0.05708			439777.01		7183			173.10,	184		0.0		DC	
		HIGHEST			0.05533								173.10,	184		0.0		DC	
		HIGHEST			0.05283								173.10,	184		0.0		DC	
		HIGHEST						439677.01		7233			173.10,	327		0.0		DC	
	10TH	HIGHEST	VALUE	IS	0.03394	AT	(	440027.01	, 424	7033	.81		173.10,	184	.70,	0.0	00)	DC	



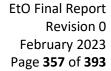


07/25/22 08:20:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

ROUP II	)		AVERAGE CONC	RE	CEPTOR (XR, Y	R, ZELEV,	ZHILL, ZFLA	.G) OF T	YPE	NETWORK GRID-IN
AR45F	1ST HIGHES	T VALUE T	S 0.05503 AT (	439677.01.	4247233.81,	173.10,	327.10.	0.00)	DC	
	2ND HIGHES					173.10,	184.40.	0.00)	DC	
	3RD HIGHES					173.10.	327.10.	0.00)	DC	
	4TH HIGHES				4247183.81,	173.10,	311.00.	0.00)	DC	
	5TH HIGHES					173.10,	185.00.	0.00)	DC	
	6TH HIGHES	T VALUE I	S 0.04441 AT (	439615.68.	4247222.48.	173.00.	327.10.	0.00)	DC	
	7TH HIGHES	T VALUE I	S 0.03941 AT (	439827.01,	4247133.81,	173.10,	185.00,	0.00)	DC	
	8TH HIGHES	T VALUE I	S 0.03919 AT (	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC	
	9TH HIGHES	T VALUE I				173.10,	184.60,	0.00)	DC	
	10TH HIGHES	T VALUE I	S 0.03525 AT (	439877.01,	4247133.81,	173.10,	184.90,	0.00)	DC	
R6F	1ST HIGHES			440015.68,		173.10,	184.90,	0.00)	DC	
	2ND HIGHES					173.10,	184.70,	0.00)	DC	
	3RD HIGHES					173.10,	185.00,	0.00)	DC	
	4TH HIGHES					173.00,	327.10,	0.00)	DC	
	5TH HIGHES					173.10,	327.10,	0.00)	DC	
	6TH HIGHES					173.10,	327.10,	0.00)	DC	
	7TH HIGHES				4247133.81,	173.10,	185.00,	0.00)	DC	
	8TH HIGHES				4246933.81,	183.70,	183.70,	0.00)	DC	
	9TH HIGHES					183.60,	183.60,	0.00)	DC	
	10TH HIGHES	T VALUE I	S 0.00690 AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
AR7F	1ST HIGHES					173.10,	311.00,	0.00)	DC	
	2ND HIGHES			439927.01,		173.10,	185.00,	0.00)	DC	
	3RD HIGHES					173.10,	185.00,	0.00)	DC	
	4TH HIGHES					173.10,	327.10,	0.00)	DC	
	5TH HIGHES					173.10,	327.10,	0.00)	DC	
	6TH HIGHES					173.10,	184.70,	0.00)	DC	
	7TH HIGHES				4247033.81,	173.10,	184.70,	0.00)	DC	
	8TH HIGHES					173.10,	184.90,	0.00)	DC	
	9TH HIGHES					173.10,	184.40,	0.00)	DC	
	10TH HIGHES	T VALUE I	S 0.00338 AT (	440077.01,	4247033.81,	173.10,	184.70,	0.00)	DC	
WTILF	1ST HIGHES					180.30,	327.10,	0.00)	DC	
	2ND HIGHES					173.00,	327.10,	0.00)	DC	
	3RD HIGHES		S 0.03294 AT (			173.00,	327.10,	0.00)	DC	
	4TH HIGHES				4247283.81,	173.00,	327.10,	0.00)	DC	
	5TH HIGHES					173.00,	327.10,	0.00)	DC	
	6TH HIGHES					173.00,	327.10,	0.00)	DC	
	7TH HIGHES					173.00,	327.10,	0.00)	DC	
	8TH HIGHES					173.00,	327.10,	0.00)	DC	
	9TH HIGHES					173.00,	327.10,	0.00)	DC	
	10TH HIGHES	I VALUE I	S 0.02299 AT (	439427.01,	4247233.81,	173.00,	327.10,	0.00)	DC	



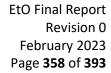


07/25/22 08:20:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 25 HRS) RESULTS \*\*\*

GROUP ID	1ST 2ND				AVERAGE CONC																NETWORK
DALIBF	2ND									RE	CEPTOR	(x	R,	YR,	ZELEV,	ZHIL	L, :	ZFLAG	) OF	TYPE	GRID-ID
DALIBF	2ND			-		-	-						-				-				
MLIBI	2ND		MAL HE	TC	0.0490	7 4	т		439727	01	42471	102	91		173.10,	21	1.0	0	0.00	) DC	
		HIGHEST			0.0463				439715						173.10,		7.1		0.00		
		HIGHEST			0.0337				439777						173.10,		4.4		0.00		
		HIGHEST			0.0159				439677						173.10,		7.1		0.00		
		HIGHEST			0.0133				439713						173.10,		7.1		0.00		
		HIGHEST							439619						180.30,		7.1		0.00		
		HIGHEST			0.0134	C A	<b>T</b>	2	439727	01,	4247				173.10.		7.1		0.00		
		HIGHEST			0.0131				439827						173.10,		7.1		0.00		
		HIGHEST			0.0120				439777						173.10,		7.1		0.00		
					0.0110				439827										0.00		
	TOTH	HIGHEST	VALUE	12	0.0100	4 4	(1	(	439027	OI,	4247.	133.	от,		173.10,	10	5.0	0,	0.00	) DC	
A_FUGIT	1ST	HIGHEST	VALUE	TS	0.2475 0.1747 0.1655 0.1602 0.1521 0.1404	9 A	Т	(	439727	.01.	42471	183.	81.		173.10,	31	1.0	0.	0.00	) DC	
		HIGHEST			0.1747				439619						180.30,		7.1		0.00		
		HIGHEST			0.1655				439777						173.10,		4.4		0.00		
		HIGHEST			0.1602				439827						173.10,		5.0		0.00		
		HIGHEST			0.1521				439715						173.10.		7.1		0.00		
		HIGHEST			0.1404				439677						173.10,		7.1		0.00		
		HIGHEST			0.1361				439927						173.10.		5.0		0.00		
		HIGHEST							439877						173.10,		4.9		0.00		
		HIGHEST							439627						173.10,		7.1		0.00		
		HIGHEST							439915						173.10,		4.6		0.00		
A_ALL	1st	HIGHEST	VALUE	IS	0.4403 0.3940 0.3837 0.3765 0.3724 0.3556 0.3378	0 A	т	(	439619	.85.	42473	306.	86.		180.30.	32	7.1	0.	0.00	) DC	
	2ND	HIGHEST	VALUE	IS	0.3940	5 A	T	(	439627	.01.	42472	233.	81		173.10,	32	7.1	0.	0.00	) DC	
		HIGHEST			0.3837	9 A	T	Ċ	439927	.01,	42470				173.10,	18	5.0	0,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.3765				439777			183.	81.		173.10,	18	4.4	0.	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.3724	6 A	T	Ò	439727	.01.	42473				173.10,		1.0		0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.3556	8 A	T	(	439677	.01,	42472	233.	81,		173.10,	32	7.1	0,	0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.3378	4 A	T	(	440027	.01,	42470	033.	81,		173.10,	18	4.7	0.	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.3373	2 A	T	(	439977	.01.	42470	083.	81.		173.10,	18	4.7	0.	0.00	DC	
		HIGHEST			0.3373	1 A	T	Ċ	440015	. 68	42470				173.10,		4.9		0.00	DC	
	10TH	HIGHEST	VALUE	IS	0.3181				440077			033.	81		173.10,	18	4.7	ο,	0.00	) DC	
ICC_SC	1ST	HIGHEST	VALUE	IS	0.4445	3 A	т	C	439619	.85.	42473	306.	86.		180.30,		7.1		0.00	) DC	
		HIGHEST			0.3978				439627						173.10,		7.1		0.00		
		HIGHEST			0.3956				439927						173.10.		5.0		0.00		
		HIGHEST							439777						173.10.		4.4		0.00		
		HIGHEST			0.3775				439727						173.10,		1.0		0.00		
		HIGHEST			0.3599	9 A	T	Ċ	439677						173.10.		7.1		0.00		
		HIGHEST							439977						173.10,		4.7		0.00		
		HIGHEST							440027						173.10,		4.7		0.00		
		HIGHEST							440015						173.10,		4.9		0.00		
		HIGHEST							440077						173.10,		4.7		0.00		





\*\*\* 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			AVERAG	E CONC			REC	EPTOR (XR,	YR, ZELEV,	ZHILL, ZFLA	5) OF T	NETWORK YPE 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	Ò	439927.01,	4247083.81.	173.10,	185.00.	0.00)	DC
	3RD HIGHEST	VALUE	IS	0.40788	AT	Ò	439627.01.	4247233.81.	173.10.	327.10.	0.00)	DC
	4TH HIGHEST	VALUE	IS	0.39954	AT	Ĉ	439777.01.	4247183.81.	173.10.	184.40.	0.00)	DC
	5TH HIGHEST	VALUE	IS	0.39122	AT	C	439727.01,	4247183.81.	173.10,	311.00.	0.00)	DC
	6TH HIGHEST	VALUE	IS	0.38272	AT	Ċ	439977.01,	4247083.81,	173.10,	184.70,	0.00)	DC
	7TH HIGHEST	VALUE	IS	0.37851	AT	Ċ	440027.01,	4247033.81,	173.10,	184.70,	0.00)	DC
	8TH HIGHEST	VALUE	IS	0.37351	AT	Č	440015.68,	4247022.48,	173.10,	184.90,	0.00)	DC
	9TH HIGHEST	VALUE	IS	0.37179	AT	C	439677.01,	4247233.81,	173.10,	327.10,	0.00)	DC
	10TH HIGHEST	VALUE	IS	0.37003	AT	Ċ	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, W Mar 23-24, 2022 Monitoring Eve *** 08:20:
**** AERMOT - VERSION 22112 *** *** 00 File adducts, Trion; Covestor; Chemical Mixing *** 08:20:
**** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL AD]_U**

**** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL AD]_U**

**** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL AD]_U**

***** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL AD]_U**

****** Summary of Total Messages

******* ATOTAL Of 0 Patal Error Message(s)
A Total of 10 Patal Error Message(s)
A Total of 4 Norming Message(s)
A Total of 0 Calm Hours Identified
A Total of 0 Calm Hours Identified
A Total of 0 Calm Hours Identified
A Total of 0 Omissing Hours Identified
A Total of 0 Omissing Hours Identified
A Total of 0 Missing Hours Identified
A Total of 0 Missing Hours Identified
A Total of 0 Omissing Hours Identified
A Total of 0 O
```



## **April Monitoring Event AERMOD Summary File: Institute**

```
*** AERMOD - VERSION 22112 *** 
*** AERMET - VERSION 22112 *** 
*** Ethylene Oxide Distribution AND Polyox Processes
 *** 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 ROY DEPLETION. DOPLETE = F

* Model Uses NO MET DEPLETION. WETDPLT = F

* Stack-tip Downwash.

* Model Accounts for ELEVATED TERRATE EFFECTS.

* Use Calms Processing Routine.

* Use Missing Data Processing Routine.

* No Exponential Decay

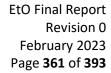
* Model Uses RURAL Dispersion Only.

* 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)
                                            7 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
19 VOLUME SOURCE(s)
0 AREA type source(s)
0 LINE SOURCE(s)
0 RINE(RLINEXT Source(s)
0 OPENPIT Source(s)
0 DBUYNAT LINE source(s)
0 BBUYNAT LINE source(s)
0 SWPOINT Source(s)
                            with:
 **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 = 0.000 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:
**Output Print File:
 **Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```

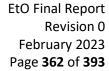




NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  $(\mathsf{METERS/SEC})$ 

1.54, 3.09, 5.14, 8.23, 10.80,





08/23/22 16:01:46 PAGE 3 \*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Met Version: 22112

Surface file: WV\_APR\_22.SFC
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

Name: 12022

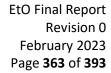
First 24 hours of scalar data WR More 12022

First 24 hours of scalar data WR More 12022

Name:  $W^{\!\!\!/\!\!\!\!/}$  DT/DZ ZICNV ZIMCH M-O LEN Z $\!\!\!\!/$  BOWEN ALBEDO REF WS WD HT REF TA 7.9 288.9 7.9 288.9 7.9 288.5 7.9 288.6 7.9 288.6 7.9 288.8 7.9 289.4 7.9 299.4 7.9 300.6 7.9 300.6 7.9 300.5 7.9 300.5 7.9 300.5 7.9 300.5 7.9 300.5 7.9 300.5 7.9 300.8 1.00 1.00 1.00 1.00 1.00 0.24 0.18 0.16 0.16 0.16 0.16 0.17 0.19 0.25 0.45 1.00 1.00 0.28 0.54 0.85 0.58 1.39 1.21 0.80 1.21 0.80 1.30 1.35 1.39 2.15 1.30 134. 118. 117. 63. 97. 96. 109. 124. 250. 254. 263. 226. 281. 199. 244. 227. 261. 281. 299. 344. 299. 344.

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)

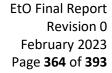




\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - Institute \*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

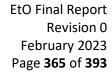
					Str Mr	CONC	OF (	ттс	ER	IN M	ICROGRA	MS/M≈	*3				**		
GROUP ID					AVERAGE	CONC				R	ECEPTOR	(XR	, YR	, ZELEV,	ZHILL	, ZFLAG)	OF	TYPE	NETWORK GRID-ID
								-											
EODISTFL	1ST	HIGHEST	VALUE	IS	0.	06032	AT	(	43443	1.66	, 4247	718.6	7.	214.40,	303	.80,	0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.	05136	AT	(	43471	3.24	, 4247			214.20,			0.00)	DC	
	3RD	HIGHEST	VALUE	IS	0.	04594	AT	(	43470	3.87	, 4247	610.6		212.00,		.80,	0.00)	DC	
	4TH	HIGHEST	VALUE	IS	0.	04566	AT	(	43462	9.22	, 4247	566.2		211.00,			0.00)	DC	
	5TH	HIGHEST	VALUE	IS	0.	04454	AT	(	43353	1.66	, 4248	818.6		215.80,			0.00)		
		HIGHEST		IS	0.	04397	AT	(	43437	9.22	, 4247	816.2		211.90,			0.00)		
		HIGHEST		IS	0.	04301	AT	(	43363	1.66	, 4248	718.6		210.80,			0.00)		
		HIGHEST		IS	0.	03991	AT	(	43333	1.66	, 4248	918.6		214.60,		.70,	0.00)		
		HIGHEST		IS	0.	03905	AT	(	43496	3.24	, 4247	120.0		215.30,			0.00)		
		HIGHEST		IS	0. 0. 0. 0. 0. 0.	03708	AT	(	43411	9.85	, 4248	806.8	6,	212.30,	316	.80,	0.00)	DC	
EODPOINT	1st	HIGHEST	VALUE	IS	0.	06032	AT	(	43443	1.66	, 4247			214.40,	303		0.00)		
	2ND	HIGHEST	VALUE	IS	0.						, 4247			214.20,	303		0.00)		
	3RD	HIGHEST	VALUE	IS	0.				43470			610.6		212.00,			0.00)	DC	
	4TH	HIGHEST	VALUE	IS	0.				43462			566.2		211.00,			0.00)		
	5TH	HIGHEST	VALUE	IS	0.				43353			818.6		215.80,			0.00)		
	6ТН	HIGHEST	VALUE	IS	0.				43437			816.2		211.90,			0.00)		
	7TH	HIGHEST	VALUE	IS	0.				43363			718.6		210.80,			0.00)	DC	
	8TH	HIGHEST	VALUE	IS	0.				43333			918.6		214.60,			0.00)		
	9ТН	HIGHEST	VALUE	IS	0.				43496			120.0		215.30,			0.00)		
	10TH	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.			-			, 4248			212.30,	316	.80,	0.00)	DC	
ODRAILF		HIGHEST		IS	0.	04043	AT	(	43283	1.66	, 4248	218.6	7,	182.40,	314		0.00)		
		HIGHEST		IS	0.	03977	AT	(	43258	3.00	, 4248	215.0	6,	181.73, 182.50,	314		0.00)		
	3RD	HIGHEST	VALUE	IS	0.	03482	AT	(	43293	1.66	, 4248	218.6	7,				0.00)	DC	
		HIGHEST		IS	0.	03414	AT	(	43283	1.66	, 4248	318.6	7,	182.30,	314		0.00)		
		HIGHEST		IS	0.	03277	AT	(	43138	6.12	, 4248	944.6	9,	182.00,			0.00)		
		HIGHEST		IS	0.	03112	AT	(	43313	1.66	, 4248	018.6	7,	184.00,			0.00)		
		HIGHEST		IS	0.	03047	AT	(	43323	1.66	, 4248	018.6	7,	184.60,			0.00)		
		HIGHEST		IS	0.	02996	AT	(	43287	9.22	, 4248	066.2	3,	181.80,		.60,	0.00)		
		HIGHEST		IS	0.	02977	AT	C	43287	9.22	, 4248	316.2	3,	181.30,			0.00)		
		HIGHEST		IS	0. 0. 0. 0. 0. 0.	02970	AT	(	43270	3.87	, 4248	110.6	7,	181.80,	314	.60,	0.00)	DC	
ODPUMPF	1ST	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.	07525	AT	(	43173	1.66	, 4249	218.6	7,	185.40,		.30,	0.00)		
	2ND	HIGHEST	VALUE	IS	0.				43174			230.0		186.00,			0.00)		
	3RD	HIGHEST	VALUE	IS	0.	06921			43138			944.6		182.00,		.25,	0.00)		
	4TH	HIGHEST	VALUE	IS	0.				43283			218.6		182.40,	314		0.00)		
	5TH	HIGHEST	VALUE	IS	0.	06563			43283			318.6		182.30,		.60,	0.00)	DC	
	6ТН	HIGHEST	VALUE	IS	0.				43293			218.6		182.50,			0.00)		
	7TH	HIGHEST	VALUE	IS	0.	06113	AT	(	43211	4.34	, 4249	063.4		183.18,	326		0.00)		
	8TH	HIGHEST	VALUE	IS	0.				43229			080.0		186.20,			0.00)		
	9тн	HIGHEST	VALUE	IS	0.				43287			316.2		181.30,			0.00)		
	10TH	HIGHEST	VALUE	IS	0.	05619	AT	(	43234	2.99	, 4249	080.0	0,	186.20,	326	.50,	0.00)	DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

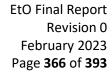
					str str	CONC	OF	OTHER	3	(N M	ICROGRAM	MS/M <sup>**</sup>	<b>'3</b>				1	ir ntr		
GROUP ID				_	AVERAGE	CONC				R	ECEPTOR	(XR	YR	, ZELEV,	ZHILL	, ZFLAG	) (	DF T	TYPE	NETWORK GRID-ID
FORTANKE	167	UTCHECT	V/41 UE	70	0	02077			421206	- 15	, 42489	244 60		182.00,	770	.25,	0.0	202	0.0	
EODTANKE		HIGHEST			0.	03756		2 7	+31380 432114	1 24	, 4240	063.48	,	183.18,		.46.	0.0		DC	
		HIGHEST			0.	03501		2	431731			218.67		185.40,		.30.		00)	DC	
		HIGHEST				03408			432831			218.67		182.40,		.60,	0.0		DC	
		HIGHEST			0.	03345						318.67		182.30,	314	.60	0.0		DC	
		HIGHEST			0.	03292			431692			230.00		185.80.		.30.	0.0		DC	
		HIGHEST			0.	03155						218.67		182.50,		.60.	0.0		DC	
		HIGHEST			0.	03088			431742			230.00		186.00,		.30,	0.0		DC	
		HIGHEST			0.	03002						316.23		181.30,		.60,	0.0	(00	DC	
	10TH	HIGHEST	VALUE	IS	0.	02958	AT	( 4	432292	1.99	, 42490	080.00	),	186.20,	326	.50,	0.0	00)	DC	
EODFLARF		HIGHEST				01372			432114			063.48		183.18,		.46,	0.0		DC	
		HIGHEST				01304								186.00,		.30,	0.0		DC	
		HIGHEST				01278						218.67		185.40,		.30,	0.0		DC	
		HIGHEST			0.	01201						230.00		186.20,		.30,	0.0		DC	
		HIGHEST			0.	01099						218.6		187.70,		.50,	0.0		DC	
		HIGHEST			0.	01099						318.67		182.30,		.60,	0.0		DC	
		HIGHEST			o.	01069			431792			280.00		187.80,		.30,	0.0		DC	
		HIGHEST			o.	01034						316.2		181.30,		.60,	0.0		DC	
		HIGHEST				01031						230.00 080.00		187.60, 186.20.		.50,	0.0		DC DC	
	TOIL	HIGHEST	VALUE	12									10	100.20,			0.0	ж)	DC	
EODR25F		HIGHEST			0.	04237						218.67	7 ,	187.70,	326	.50,	0.0		DC	
		HIGHEST			0.	03833	AT	( 4	431892	1.99	, 42492	230.00		187.60,		.50,	0.0		DC	
		HIGHEST			0.	03265						180.00		186.60,		.50,	0.0		DC	
		HIGHEST				03147		( 4	431942	. 99	, 42492	230.00		187.60,		.50,	0.0		DC	
		HIGHEST			0.	02403			432114			363.48		183.18,	326	.46,	0.0		DC	
		HIGHEST			0.	01857						218.67		186.20,		.30,	0.0		DC	
		HIGHEST			0.	01825			432042			180.00		186.60,		.50,	0.0		DC	
	8TH	HIGHEST	VALUE	IS	0.	01687						130.00		186.10,		.50,	0.0		DC	
		HIGHEST			0.	01642			431842			230.00		186.80,		.30,	0.0		DC	
	10TH	HIGHEST	VALUE	IS	0.	01291	AT	( 4	432192	. 99	, 4249	130.00	),	186.80,	326	.50,	0.0	)0)	DC	
EODFUGI		HIGHEST				16189			132114			063.48		183.18,		.46,	0.0		DC	
		HIGHEST				15553			431731			218.67		185.40,		.30,	0.0		DC	
		HIGHEST				15221			132831			218.6		182.40,		.60,	0.0		DC	
		HIGHEST				15087			431386		, 42489	944.69	t,	182.00,		.25,	0.0		DC	
		HIGHEST			U.	14880	AT		431742	99	, 4249	230.00		186.00,		.30,	0.0		DC	
		HIGHEST			0.	14538	AT	4	+32831	66	, 4248.	318.6		182.30,	314	.60,	0.0		DC	
		HIGHEST			0.	14081	AT	1	+31931	66	, 4249	218.6		187.70,		.50,	0.0		DC	
		HIGHEST			o.	13043	AI	2 4	+32931	00	, 4248	218.67		182.50,	314	.60,	0.0		DC	
		HIGHEST				12770	AI	1	1328/5	1.22	, 4248	316.23		181.30,		.60,	0.0		DC	
	TOTH	HIGHEST	VALUE	12	0.	12/28	AI	( 4	+32292	99	, 42490	080.00	,	186.20,	326	.50,	0.0	JU)	DC	





\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

					** CONC	OF (	OTHE	R IN MIC	ROGRAM	IS/M**	3				常作		
GROUP IC	)				AVERAGE CONC			REC	EPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
						100000											
EODIST		HIGHEST			0.16629	AT	( ,	432114.34,	42490	63.48	,	183.18,	326.		0.00)	DC	
		HIGHEST						431731.66,				185.40,	328.		0.00)	DC	
		HIGHEST			0.15821			431742.99,				186.00,	328.		(00.0	DC	
		HIGHEST						432831.66,				182.40,	314.		(00.0	DC	
		HIGHEST						431931.66,				187.70,	326.		0.00)	DC	
		HIGHEST						431386.12,	42489			182.00,	328.		0.00)	DC	
		HIGHEST		IS	0.14983			432831.66,				182.30,	314.		0.00)	DC	
		HIGHEST		IS				432931.66,				182.50,	314.		0.00)	DC	
		HIGHEST		IS	0.13815			431942.99,				187.60,	326.		0.00)	DC	
	10TH	HIGHEST	VALUE	IS	0.13431	AT	( .	432292.99,	42490	80.00	,	186.20,	326.	50,	0.00)	DC	
221A		HIGHEST			0.00000			0.00,		0.00		0.00,			0.00)		
		HIGHEST				AT	(	0.00,		0.00	,	0.00,			(00.0)		
		HIGHEST			0.00000			0.00,		0.00	,	0.00,			(00.0)		
		HIGHEST			0.00000			0.00,		0.00	,	0.00,			(00.0)		
	5TH	HIGHEST	VALUE	IS	0.00000			0.00, 0.00, 0.00,		0.00	,	0.00,			(00.0		
	6ТН	HIGHEST	VALUE	IS	0.00000			0.00,		0.00	,	0.00,			(00.0		
	7TH	HIGHEST	VALUE	IS	0.00000			0.00,		0.00		0.00,			(00.0)		
	8TH	HIGHEST	VALUE	IS	0.00000			0.00,		0.00	,	0.00,	0.	00,	(00.0)		
		HIGHEST			0.00000			0.00,		0.00	,	0.00,			(00.0)		
	10TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	00,	0.00)		
30M	1ST	HIGHEST	VALUE	IS	0.00000	AT	C	0.00,		0.00		0.00.	0.	00.	0.00)		
	2ND	HIGHEST	VALUE	IS	0.00000			0.00,		0.00		0.00,			0.00)		
	3RD	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00	,	0.00,	0.	00,	(00.0)		
	4TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00		0.00,	0.	00,	0.00)		
	5TH	HIGHEST	VALUE	IS	0.00000							0.00,	0.	00,	(00.0)		
	6ТН	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00		0.00,	0.	00,	(00.0		
	7TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00		0.00,	0.	00,	(00.0)		
	8TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00.		0.00		0.00,	0.	00.	(00.0		
	9TH	HIGHEST	VALUE	IS	0.00000			0.00,		0.00		0.00,	0.	00.	(00.0		
	10TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00, 0.00, 0.00, 0.00,		0.00	,	0.00,	0.	00,	0.00)		
30L	1ST	HIGHEST	VALUE	IS	0.00000	AT	(	0.00,		0.00		0.00.	0.	00.	0.00)		
Secretoria.		HIGHEST			0.00000			0.00,		0.00		0.00,			0.00)		
		HIGHEST			0.00000			0.00,		0.00	į.	0.00.			0.00)		
		HIGHEST			0.00000			0.00,		0 00		0.00.			0.00)		
		HIGHEST		IS	0.00000			0.00		0.00		0.00,			0.00)		
		HIGHEST		TS	0.00000			0.00.		0.00	8	0.00.			0.00)		
		HIGHEST		TS	0.00000			0.00,		0.00		0.00.			0.00)		
		HIGHEST		IS	0.00000	AT	è	0.00.		0.00		0.00,			0.00)		
		HIGHEST		TS	0.0000 0.0000 0.0000 0.0000 0.0000			0.00,		0.00		0.00,			0.00)		
		HIGHEST		70	0.00000			0.00,		0.00		0.00.			0.00)		





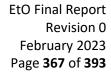
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - Institute
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes

\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

\$\$ CONC. OF OTHER IN MICROCRAMS (M\$\$2

					** CONC OF OTHER	IN MICROGRAM	IS/M**	3				**	
GROUP	ID				AVERAGE CONC	RECEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF TYPE	NETWORK 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 ( 0.00000 AT ( 0.00000 AT ( 0.00000 AT (	0.00, 0.00, 0.00, 0.00,	0.00	ì	0.00,			0.00)	
	3RD	HIGHEST	VALUE	IS	0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
	6ТН	HIGHEST	VALUE	IS	0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	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,	0.00	,	0.00,	0.	00,	0.00)	
2300		HIGHEST			0.00000 AT (	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	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		HIGHEST			0.00000 AT (	0.00, 0.00, 0.00, 0.00, 0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00, 0.00, 0.00, 0.00,	0.00	,	0.00,			0.00)	
	TOTH	HIGHEST	VALUE	IS	0.00000 AT (	0.00,	0.00	,	0.00,	0.	00,	0.00)	
PPOINT		HIGHEST			0.00000 AT (	0.00, 0.00, 0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00		0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			U.UUUUU AT (	0.00,	0.00	,	0.00,			0.00)	
		HIGHEST			0.00000 AT ( 0.00000 AT ( 0.00000 AT ( 0.00000 AT (	0.00,	0.00	,	0.00,			0.00)	
	TOTH	HIGHEST	VALUE	15	U.00000 AT (	0.00,	0.00		0.00,	0.	00,	0.00)	



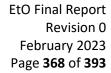


\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - Institute
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Ethylene Oxide Distribution AND Polyox Processes

\*\*\* AERMEI - VERSION ZZIIZ \*\*\* \*\*\* ETNYIENE OXIGE DISTRIBUTION AND POTYOX PROCESSES

\*\*\* MODELOPTS: REGDEAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

			** CONC OF	отн	ER IN MIC	ROGRAM	S/M**	3		**		
GROUP ID			AVERAGE CONC		REC	EPTOR	(XR,	YR, ZELEV,	ZHILL, ZFLAG)	OF 1	YPE	NETWORK GRID-ID
POLYVOL1	1ST HIGHEST 2ND HIGHEST				432583.00, 432703.87,	42482 42481				0.00)	DC DC	
	3RD HIGHEST				432831.66,	42480				0.00)	DC	
	4TH HIGHEST				432731.66,	42480				0.00)	DC	
	5TH HIGHEST				432879.22,	42480				0.00)	DC	
	6TH HIGHEST	VALUE I		T (	432931.66,	42480	18.67	, 181.80,	314.60,	(00.0)	DC	
	7TH HIGHEST				433031.66,		18.67			(00.0)	DC	
	8TH HIGHEST		S 0.00623 A		432931.66,		18.67			(00.0)	DC	
	9TH HIGHEST		S 0.00580 A		432831.66,		18.67			0.00)	DC	
	10TH HIGHEST	VALUE I	s 0.00558 A	т (	432831.66,	42479	18.67	, 181.70,	314.60,	0.00)	DC	
PBL8389	1ST HIGHEST				432831.66,	42485				(00.0	DC	
	2ND HIGHEST 3RD HIGHEST				432931.66, 432879.22,	42485 42485				0.00)	DC DC	
	4TH HIGHEST				433031.66,		18.67			0.00)	DC	
	5TH HIGHEST				432592.99.	42479				0.00)	DC	
	6TH HIGHEST				433129.22.		66.23			0.00)	DC	
	7TH HIGHEST				432931.66,		18.67			0.00)	DC	
	8TH HIGHEST				432731.66,		18.67			0.00)	DC	
	9TH HIGHEST				432931.66.		18.67			0.00)	DC	
	10TH HIGHEST				433031.66,	42486				0.00)	DC	
PFUGIT	1ST HIGHEST	VALUE I	s 0.01769 A	т (	432583.00,	42482	15.06		314.57,	0.00)	DC	
	2ND HIGHEST	VALUE I			432703.87,	42481				(00.0)	DC	
	3RD HIGHEST				432731.66,	42480				(00.0)	DC	
	4TH HIGHEST			T (	432831.66,		18.67			0.00)	DC	
	5TH HIGHEST				432879.22,	42480				0.00)	DC	
	6TH HIGHEST				432931.66,		18.67			0.00)	DC	
	7TH HIGHEST		s 0.00869 A		432931.66,		18.67			0.00)	DC	
	8TH HIGHEST				433031.66,		18.67			0.00)	DC	
	9TH HIGHEST		S 0.00823 A		432592.99,		30.00			0.00)	DC	
	10TH HIGHEST	VALUE I	s 0.00822 A	1 (	432831.66,	424/9	18.67	, 181.70,	314.60,	0.00)	DC	
POLYOX	1ST HIGHEST				432583.00,		15.06			(00.0)	DC	
	2ND HIGHEST				432703.87,		10.67			(00.0)	DC	
	3RD HIGHEST				432731.66,		18.67			0.00)	DC	
	4TH HIGHEST				432831.66,		18.67			(00.0	DC	
	5TH HIGHEST				432879.22,		66.23			0.00)	DC	
	6TH HIGHEST				432931.66,		18.67			0.00)	DC	
	7TH HIGHEST 8TH HIGHEST				432931.66, 433031.66,	42479	18.67			0.00)	DC	
	9TH HIGHEST				432592.99,		30.00			0.00)	DC	
	10TH HIGHEST				432831.66.		18.67			0.00)	DC	
	TOTAL HIGHEST	AUCOE I	J J.00022 A	. (	-2502T.001	76413	20.07	, 101.70,	317,00,	0.00)	DC	





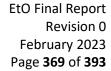
\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

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

GROUP ID				AVE	RAGE CONC			RECEPT	OR ()	KR, YF	R, ZELEV,	ZHILL,	ZFLAG	) OF 1	YPE	NETWORK GRID-ID
ALL	1ST H	IGHEST	VALUE	IS	0.16739	AT (	432114	.34. 42	49063	.48.	183.18,	326.	46.	0.00)	DC	
	2ND HI	IGHEST	VALUE	IS	0.16394	AT (	431731	66, 42	49218	67.	185.40,	328.	30.	0.00)	DC	
	3RD HI	IGHEST	VALUE	IS	0.16338	AT (	432831	66, 42	48218	67.	182.40.	314.	60.	0.00)	DC	
	4TH H3	IGHEST	VALUE	IS	0.15889	AT (	431742	99, 42	49230	.00	186.00,	328.	30,	0.00)	DC	
	5TH H3	IGHEST	VALUE	IS	0.15800	AT (	432831	66, 42	48318	67.	182.30,	314.	60.	0.00)	DC	
	6TH H3	IGHEST	VALUE	IS	0.15439	AT (	431931	66, 42	49218	67.	187.70.	326.	50.	0.00)	DC	
	7TH H3	IGHEST	VALUE	IS	0.15172	AT (	431386	12, 42	48944	.69,	182.00,	328.	25,	0.00)	DC	
	8TH H3	IGHEST	VALUE	IS	0.15023	AT (	432931	.66, 42	48218	.67,	182.50,	314.	60,	0.00)	DC	
	9TH H3	IGHEST	VALUE	IS	0.14437	AT (	432583	.00, 42	48215	.06,	181.73.	314.	57.	0.00)	DC	
	10TH H	IGHEST	VALUE	IS	0.14003	AT (	432879	.22. 42	48316	.23.	181.30.	314.	60.	0.00)	DC	

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







#### April Monitoring Event AERMOD Summary File: South Charleston

```
*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve *** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
 *** 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.

* Model Is Setup For Calculation of Average CONCentration Values.

* No GAS DEPOSITION Data Provided.

* No PARTICLE DEPOSITION Data Provided.

* Model Uses NO NORY DEPLETION. DEPLETE = F

* Model Uses NO NORY DEPLETION. WETDPLT = F

* Stack-tip Downwash.

* Model Accounts for ELEVATED TERMS.

* Use Calms Processing Routine.

* Use Missing Data Processing Routine.

* Use Missing Data Processing Routine.

* No Exponential Decay.

* Model Uses RURAL Dispersion Only.

Option for Capped & Horiz Stacks Selected With:

O Capped Stack(s); and

* ADJ_U* — Use ADJ_U* Option for SBL in AERMET

* CCVR_Sub — Meteorological data includes TEMP substitutions

* TEMP_Sub — Meteorological data includes TEMP substitutions

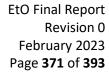
* Model Assumes NO FLAGFOLE Receptor Heights.

* 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 RIINF/RIINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s)
and: 0 BUOYANT LINE source(s)
and: 0 BUOYANT LINE source(s)
and: 0 SWPOINT source(s)
 {\rm **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:
**Output Print File:
 **Detailed Error/Message File: error.fil
**File for Summary of Results: Summary.sum
```



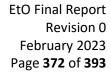


METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2022 4 26 14
AND END DATE: 2022 4 27 13

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)  $\ensuremath{\mbox{\sc heat}}$ 

1.54, 3.09, 5.14, 8.23, 10.80,





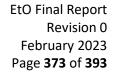
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, NV Apr 26-27, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\* \*\*\* MODELOPTS: REGDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\* \*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\* Met Version: 22112 Name: NaTIVILE SOUTH CHARLE YEARS 12022

First 24 hours of scalar data We DT/DZ 2

22 04 26 116 01 -20.6 0.216 -9.000 -9.000 -22 04 26 116 02 -8.4 0.168 -9.000 -9.000 -9.000 -22 04 26 116 03 12.4 -9.000 -9.000 -9.000 -9.000 -22 04 26 116 03 12.4 -9.000 -9.000 -9.000 -9.000 -22 04 26 116 03 13.9 1 0.331 0.600 0.005 22 04 26 116 05 39.1 0.331 0.600 0.005 22 04 26 116 07 50.6 0.207 0.850 0.005 22 04 26 116 07 50.6 0.207 0.850 0.005 22 04 26 116 07 50.6 0.207 0.850 0.005 22 04 26 116 10 37.8 0.261 0.855 0.005 22 04 26 116 10 37.8 0.261 0.855 0.005 22 04 26 116 11 25.5 0.198 0.760 0.005 22 04 26 116 11 25.5 0.198 0.760 0.005 22 04 26 116 11 2 10.1 0.131 0.562 0.005 22 04 26 116 11 2 10.1 0.131 0.562 0.005 22 04 26 116 14 -25.6 0.263 9.000 -9.000 -9.000 -9.000 22 04 26 116 16 -14.5 0.164 9.000 9.000 -9.000 -9.000 22 04 26 116 16 -14.5 0.164 9.000 9.000 -9.000 -9.000 22 04 26 116 16 -22.7 0.257 9.000 9.000 -9.000 22 04 26 116 18 -22.7 0.257 9.000 9.000 9.000 22 04 26 116 18 -22.7 0.257 9.000 9.000 9.000 22 04 26 116 18 -22.8 0.257 9.000 9.000 9.000 22 04 26 116 12 2.99.9 0.900 9.000 9.000 9.000 22 04 26 116 22 999.0 9.0000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 W\* DT/DZ ZICNV ZIMCH M-O LEN ZO BOWEN ALBEDO REF WS WD HT REF TA 51.3 49.1 -9999.0 225.3 -81.3 -27.6 -15.3 -99999.0 -99999.0 -19.5 46.3 46.1 29.7 94.1 61.6 61.6 61.6 152.3 -99999.0 -99999.0 -999. -999. -999. -86. 194. 333. 425. 489. 581. 604. 614. -999. -990. -900. -90 241. 165. -999. 213. 457. 295. 226. -999. 320. 213. 115. 198. 324. 223. 160. 379. 276. 545. 209. -999. 1.00 0.43 0.22 0.16 0.16 0.16 0.16 0.16 0.16 0.18 0.23 0.46 1.00 1.00 1.00 1.00 1.00 1.00 2.86 2.36 0.286 3.86 2.86 0.00 3.86 2.86 0.00 3.86 2.86 3.36 4.36 3.86 2.36 4.36 3.86 5.96 0.00 0.00 339. 3. 0. 322. 330. 999. 315. 0. 0. 306. 286. 290. 999. 255. 296. 296. 296. 318. 0. 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)





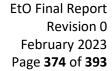
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\*

15:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

					ww	CONC	OF	отні	ER 1	IN M	ICROGRAM	IS/M**	3					e w		
GROUP	ID				AVERAGE	CONC				RE	ECEPTOR	(XR,	YR,	ZELEV	ZHILL	, ZFLAG	) (	OF :	TYPE	NETWORK GRID-ID
CHMIX		HIGHEST							440377					183.70		.10,	0.0		DC	
		HIGHEST									, 42466		,	183.10	284	.10,	0.0		DC	
		HIGHEST				.00475			440377			83.81	1	183.40		.10,	0.0		DC	
		HIGHEST							440427					182.50		.90,	0.0		DC	
		HIGHEST				.00465			440477				1	182.50	322	.90,	0.0		DC	
		HIGHEST							440415					183.30	284	.10,	0.0		DC	
		HIGHEST				.00457			440463				,	185.50	302	.70,	0.0		DC	
		HIGHEST							440477					185.60		.90,	0.0		DC	
		HIGHEST							440527					185.50		.90,	0.0		DC	
	TOTH	HIGHEST	VALUE	15	U	.00262	AI	(	440327	.01	, 42467	33.8L	,	184.40	284	.10,	0.0	)()	DC	
1RX		HIGHEST				.00000				0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000				0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	).00.	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			Č	).00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	0.00	,	0.00		0.00		.00,	0.0			
		HIGHEST				.00000			Č	).00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000				0.00	,	0.00	,	0.00		.00,	0.0			
	TOTH	HIGHEST	VALUE	15	0	.00000	AI	(	(	0.00	· · · · · · · · · · · · · · · · · · ·	0.00	,	0.00	, u	.00,	0.0	JU)		
2RX	1st	HIGHEST	VALUE	IS	0	00000	AT	(		0.00		0.00		0.00		.00,	0.0	00)		
		HIGHEST				.00000				0.00				0.00		.00,	0.0			
	3RD	HIGHEST	VALUE	IS		.00000				0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			Č	).00.	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000				0.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	0.00	· · ·	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	1.00	,	0.00	,	0.00		.00,	0.0			
		HIGHEST				.00000			(	).00	, , ,	0.00		0.00		.00,	0.0			
	10TH	HIGHEST	VALUE	IS	0	.00000	AT	(	(	00.	,	0.00	,	0.00	. 0	.00,	0.0	)0)		
3RX	1ST	HIGHEST	VALUE	IS	0	.00000	AT	(	(	0.00		0.00	,	0.00	. 0	.00,	0.0	30)		
	2ND	HIGHEST	VALUE	IS	0	.00000	AT	C	(	0.00				0.00	. 0	.00.	0.0	(00		
	3RD	HIGHEST	VALUE	IS	0	.00000	AT	Ċ	(	0.00		0.00		0.00	. 0	.00,	0.0	000		
	4TH	HIGHEST	VALUE	IS	0	.00000	AT	Ċ	(	0.00		0.00		0.00	. 0	.00.	0.0	000		
	5TH	HIGHEST	VALUE	IS	0	.00000	AT	(	(	0.00	,	0.00	,	0.00	. 0	.00,	0.0	(00		
	6ТН	HIGHEST	VALUE	IS		.00000				0.00		0.00		0.00		.00,	0.0	(00		
	7TH	HIGHEST	VALUE	IS		.00000			0	00.0	,	0.00	,	0.00		.00,	0.0	(00		
		HIGHEST				.00000			(	1.00		0.00	,	0.00		.00,	0.0	(00		
	9TH	HIGHEST	VALUE	IS		.00000				1.00	,	0.00		0.00		.00,	0.0			
	10TH	HIGHEST	VALUE	IS	0	.00000	AT	(	(	).00.	,	0.00	,	0.00	. 0	.00,	0.0	(00		





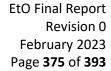
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

08/19/22 15:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

					ww	CONC	OF I	отне	ER	IN M	ICROGRAM	IS/M™™	3				26.3		
GROUP	ID				AVERAGE	CONC				R	ECEPTOR	(XR,	YR,	ZELEV,	ZHILL	, ZFLAG)	OF	TYPE	NETWORK GRID-ID
789RX	157	HIGHEST	VALUE	TC	0	01051	ΔT	c	44051	5 68	42468	322.48		173.10,	302	.70,	0.00	)) DC	
70.310		HIGHEST				.00879			44057			83.81		173.10,	311	.20.	0.00		
		HIGHEST				00702			44047			33.81		173.10	182	.10,	0.00		
		HIGHEST				00533			44052			83.81		173.10		.50,	0.00		
		HIGHEST				00504			44081	5.68		22.48		184.50,		.20.	0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0	.00491	AT	(	44051	5.68		222.48	,	173.10,	182		0.00	) DC	
		HIGHEST				.00474			44052			233.81		173.10,		.20,	0.00		
		HIGHEST				.00458			44047			283.81		173.10,			0.00		
		HIGHEST				.00436			44101			22.48		173.10,		.20,	0.00		
	10TH	HIGHEST	VALUE	IS	0	.00420	AT	(	44057	7.01	, 42471	183.81	,	173.10,	182	.20,	0.00	)) DC	
CPOINT		HIGHEST				01051			44051			322.48		173.10,			0.00		
		HIGHEST				.00879			44057			783.81		173.10,			0.00		
		HIGHEST				.00702			44047			233.81		173.10, 173.10,		.50,	0.00		
		HIGHEST				.00504			44081			22.48		184.50			0.00		
		HIGHEST				00304			44051			22.48		173.10,		.20,	0.00		
		HIGHEST				00474			44052			233.81		173.10,		.20.	0.00		
		HIGHEST				.00458			44047			83.81		173.10		.80.	0.00		
		HIGHEST							44101			22.48		173.10.		.20.	0.00		
		HIGHEST							44057			183.81		173.10,		.20,	0.00		
CEO03F	1st	HIGHEST	VALUE	IS	0	01286	AT	(	44011	5.68	. 42470	22.48		173.10.	184	.10.	0.00	)) DC	
		HIGHEST			0	.01167	AT	(	44001			322.48		173.10,	327	.10,	0.00		
		HIGHEST				.01155			44017			983.81		173.10,		.90,	0.00		
		HIGHEST				.01082			44007			333.81	,	173.10,	327	.10,	0.00		
		HIGHEST				.01082			44007			283.81		173.10,		.80,	0.00		
		HIGHEST				.01034			44002			33.81		173.10,		.10,	0.00		
		HIGHEST			0	.00999	AT	(	44012			83.81		173.10,			0.00		
		HIGHEST				00987			44007			33.81		173.10,		.70,	0.00		
		HIGHEST							44022			33.81		173.10,			0.00		
	TOTH	HIGHEST	VALUE	15	U	.00883	AI	(	44011	5.68	, 424/3	322.48	,	173.10,	305	.60,	0.00	)) DC	
CPIVE		HIGHEST				.02858			44051			322.48		173.10,	302	.70,	0.00		
		HIGHEST				.02352			44057			783.81		173.10,		.20,	0.00		
		HIGHEST				.01713			44062			783.81		173.10,		.20,	0.00		
		HIGHEST				.01625			44061			306.86		173.10,		.70,	0.00		
		HIGHEST				.01557			44061			322.48		173.10,		.70,	0.00		
		HIGHEST				01444			44047			233.81		173.10,			0.00		
		HIGHEST			Ü	.01380	AI	>	44067			83.81		183.60,		.20,	0.00		
		HIGHEST				.01373 .01239			44081			22.48		184.50,		.20, .20,	0.00		
		HIGHEST							44061			22.48		173.10, 183.10.			0.00		
	TOTH	uraueai	VALUE	13	U	. 01100	AI	(	44001	J. 00	, -2400	122.40	,	103.10,	311	1201	0.00	,, 00	





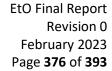
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\*

15:22

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

					** CONC (	)-	UIH	EK IN	MICROGRA!	45/M"	"3				St W		
GROUP ID					AVERAGE CONC				RECEPTOR	(XR	, YF	, ZELEV,	ZHILL,	ZFLAG)	) OF	TYPE	NETWORK GRID-ID
				-		-	-										
CFUGIT		HIGHEST						440515.6				173.10,	302.		0.00		
		HIGHEST			0.02572							173.10,	311.	20,	0.00	) DC	
	3RD	HIGHEST	VALUE	IS	0.01944			440627.0				173.10,	311.	20,	0.00	) DC	
	4TH	HIGHEST	VALUE	IS	0.01894	AT	(	440619.8	5, 4246	806.8	6,	173.10,	310.	70,	0.00	) DC	
	5TH	HIGHEST	VALUE	IS	0.01860				8, 4246	822.4	8,	173.10,	302.	70,	0.00	) DC	
	6ТН	HIGHEST	VALUE	IS	0.01663	AT	(	440677.03		583.8	1,	183.60,	311.	20,	0.00	) DC	
	7TH	HIGHEST	VALUE	IS	0.01545	AT	(	440615.6	8, 4246	522.4	8,	183.10,	311.	20,	0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.01514	AT	(	440815.6	8, 4246	522.4	8,	184.50,	311.	20,	0.00	) DC	
	9тн	HIGHEST	VALUE	IS	0.01483	AT	(	440477.03	1, 4247	233.8	1,	173.10,	182.	10,	0.00	) DC	
		HIGHEST			0.01404							173.10,	184.		0.00	) DC	
OVESTRO	1ST	HIGHEST	VALUE	TS	0.04170 0.03451 0.02349 0.02263	AT	(	440515.6	8, 4246	822.4	8.	173.10,	302.	70.	0.00	) DC	
		HIGHEST			0.03451							173.10,	311.		0.00		
		HIGHEST			0.02349							173.10,	311.		0.00		
		HIGHEST			0.02263			440619.8				173.10,	310.		0.00		
		HIGHEST			0.02209							173.10,	302.		0.00		
		HIGHEST						440477.0				173.10.	182.		0.00		
		HIGHEST			0.02027							183.60,	311.		0.00		
		HIGHEST			0.02018	AT	2	440815.6				184.50,	311.		0.00		
		HIGHEST						440615.6				183.10,	311.		0.00		
		HIGHEST						440515.6				173.10,	182.		0.00		
TE10813	1cT	HIGHEST	VALUE	TC	0.01007	۸Т	-	440227.0	1, 4247	283 8	1	173.10,	272.	80	0.00	) DC	
LETOGIA		HIGHEST			0.00934	AT	6	440277.0				173.10,	272.		0.00		
	300	HIGHEST	VALUE	TS	0.00334	AT.	2	440815.6	8, 4246			206.50,	311.		0.00		
		HIGHEST			0.00810							173.10,	272.		0.00		
		HIGHEST			0.00010	AT	2	440327.0	1. 4246			173.10,	183.		0.00		
		HIGHEST						440327.0				173.10,	272.		0.00		
		HIGHEST			0.00763	AT	>	440277.0	1, 4247			173.10,	272.		0.00		
		HIGHEST			0.00723	AI	>	440415.6	8, 4247			181.60,	272.		0.00		
		HIGHEST										173.10,	272.		0.00		
	TOTH	HIGHEST	VALUE	15	0.00699	AI	(	440327.0	1, 4247	283.8	Ι,	173.10,	272.	80,	0.00	) DC	
_L_ALL		HIGHEST			0.00389	AT	(	440227.03				173.10,	183.		0.00		
		HIGHEST			0.00305	AT	(	440277.0				173.10,	183.		0.00		
	3RD	HIGHEST	VALUE	IS	0.00288	AT	(	440315.6				173.10,	283.	60,	0.00		
		HIGHEST			0.00281							173.10,	272.		0.00		
	5TH	HIGHEST	VALUE	IS	0.00273			440327.0				173.10,	183.	90,	0.00		
	6TH	HIGHEST	VALUE	IS				440277.03				173.10,	272.		0.00	) DC	
		HIGHEST			0.00164			440177.03				173.10,	272.		0.00	) DC	
	8TH	HIGHEST	VALUE	IS	0.00154	AT	(	440227.0				173.10,	183.	90,	0.00	) DC	
		HIGHEST										183.10,	302.		0.00	) DC	
			VALUE					440577.0					311.				





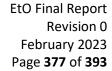
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

08/19/22 15:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

				** CONC	DF	отн	ER IN	MI	CROGRAM	S/M**	3				24		
GROUP ID	0.		AV	ERAGE CONC				RE	CEPTOR	(XR,	YR,	ZELEV,	ZHILL,	ZFLAG)	OF	TYPE	NETWORK GRID-ID
					-	-											
T_T_ALL	1ST HIGHEST	VALUE	TS	0.00539	ΔТ	(	440177.	01	42472	83 81		173.10,	272.	80	0.00	) DC	
-I-MLL	2ND HIGHEST		TC	0.00333			440227.					173.10,	272.		0.00		
	3RD HIGHEST		TC	0.00384			440327.		42469			173.10,	183.		0.00		
			15	0.00362	AT	2	440215.		42473			173.10,	272.		0.00		
	4TH HIGHEST		15	0.00302													
	5TH HIGHEST		15	0.00335			440315.		42469			173.10,	283.		0.00		
	6TH HIGHEST		15	0.00323			440227.					173.10,	272.		0.00		
	7TH HIGHEST		IS	0.00316	AT	(	440277.	01,	42472			173.10,	272.		0.00		
	8TH HIGHEST		IS	0.00296	AT	(	440277.	01,	42473			173.10,	272.		0.00		
	9TH HIGHEST	VALUE	IS	0.00252			440127.					173.10,	272.		0.00		
	10TH HIGHEST	VALUE	IS	0.00539 0.00439 0.00384 0.00362 0.00335 0.00316 0.00296 0.00252 0.00242	AT	(	440315.	68,	42473	22.48	,	173.10,	272.	80,	0.00	) DC	
POINT	1ST HIGHEST	VALUE	TS	0.01727 0.01455 0.01451 0.01334 0.01280 0.01213	AT	(	440227.	01.	42472	83.81	v	173.10,	272.	80.	0.00	) DC	
	2ND HIGHEST		TS	0.01455	AT	è	440327.					173.10,	183.		0.00		
	3RD HIGHEST		TS	0.01451	ΔТ	è	440277.		42472	83 81		173.10,	272.		0.00		
	4TH HIGHEST		TC	0.01334			440177.					173.10,	272.		0.00		
	5TH HIGHEST		TC	0.01334			440315.		42469			173.10,	283.		0.00		
	6TH HIGHEST		TC	0.01200			440277		42473			173.10,	272.		0.00		
			15	0.01213			440315.		42473			173.10,			0.00		
	7TH HIGHEST			0.01191	AI	>	440313.						272.				
	8TH HIGHEST			0.01137					42473			173.10,	272.		0.00		
	9TH HIGHEST						440215.		42473			173.10,	272.		0.00		
	10TH HIGHEST				AT	(	440327.	01,	42472	83.81	,	173.10,	272.	80,	0.00	) DC	
THE	1ST HIGHEST 2ND HIGHEST 3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 8TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE	IS	0.00257	AT	C	440227.	01.	42472	83.81		173.10.	272.	80.	0.00	) DC	
	2ND HIGHEST	VALUE	IS	0.00253	AT	(	440177.	01.	42472	83.81		173.10,	272.	80.	0.00	) DC	
	3RD HIGHEST	VALUE	IS	0.00144	AT	è	440277.	01.	42472			173.10,	272.		0.00		
	4TH HIGHEST	VALUE	TS	0.00119			440277.					173.10,	272.		0.00	) DC	
	STH HIGHEST	VALUE	TS	0.00114	AT	è	440215.	68	42473	22 48	•	173.10,	272.		0.00		
	6TH HIGHEST	VALUE	TS	0.00104			440515.					173.10,	302.		0.00		
	7TU UTGUEST	VALUE	TS	0.00104			440227.		42473			173.10,	272.		0.00		
	OTH HIGHEST	VALUE	TC	0.00094								173.10,	272.		0.00		
	OTH HIGHEST	VALUE	15	0.00094	AT	>	440315.					173.10,					
	31H HIGHEST	VALUE	15	0.00086									272.		0.00		
	10TH HIGHEST	VALUE	IS	0.00078	AT	(	440327.	ΟΙ,	42469	33.81	,	173.10,	183.	90,	0.00	) DC	
RE	1ST HIGHEST	VALUE	IS	0.00262			440327.	01,				173.10,	183.		0.00	) DC	
	2ND HIGHEST	VALUE	IS	0.00218	AT	(	440315.	68,	42469	22.48		173.10,	283.	60,	0.00	) DC	
	3RD HIGHEST	VALUE	IS	0.00204			440227.	01.	42472			173.10,	272.		0.00	) DC	
	4TH HIGHEST	VALUE	IS	0.00198			440277.					173.10.	272.		0.00		
	5TH HIGHEST	VALUE	TS	0.00142			440327.		42472	83.81		173.10,	272.		0.00		
	3RD HIGHEST 4TH HIGHEST 5TH HIGHEST 6TH HIGHEST 7TH HIGHEST 9TH HIGHEST 10TH HIGHEST	VALUE	TS	0.00139			440315.					173.10.	272.		0.00		
	7TH HIGHEST	VALUE	TS	0.00138			440615.		42466			183.10,	311.		0.00		
	9TH HIGHEST	VALUE	TC	0.00138			440577					183.20,	311.		0.00		
	OTH HIGHEST	VALUE	13	0.00138			440277.					173.10.	183.		0.00		
	10TH HIGHEST	VALUE	15	0.00133													
	10TH HIGHEST	VALUE	12	0.00127	Al		440027 .	UL.	42465	03.81	n	184.60.	311.	20.	0.00	) DC	





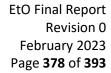
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing \*\*\*

08/19/22 L5:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

					CONC	<i>J</i>	UII	EK IN MI	LINOGRA	13/11	,					
GROUP ID				_	AVERAGE CONC		_	RE	EPTOR	(XR,	YR, ZELEV,	ZHILL,	ZFLAG)	OF -	TYPE	NETWOR GRID-I
TFNC	1ST	HTGHEST	VALUE	TS	0.00413	AT	(	440077.01.	4247	283.81	, 173.10,	272.	80.	0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.00413 0.00299 0.00251 0.00220	AT	ć	440077.01.	4247	333.81	173.10,			0.00)	DC	
	3RD	HIGHEST	VALUE	IS	0.00251	AT	è	440227.01.	42469	83.81	173.10,	183.		0.00)	DC	
	4TH	HIGHEST	VALUE	IS	0.00220	AT	è	440119.85.	4247	306.86	173.10,			0.00)	DC	
	5TH	HIGHEST	VALUE	TS	0.00202	AT	è	440277.01,	42469	33.81	173.10,	183.		0.00)	DC	
		HIGHEST						440115.68.		322.48				0.00)	DC	
		HIGHEST						440315.68,		322.48		283.		0.00)	DC	
		HIGHEST						440127.01,		333.81				0.00)	DC	
		HIGHEST						440127.01,		283.81				0.00)	DC	
		HIGHEST						440327.01,		33.81				0.00)	DC	
r_FUGIT	1st	HIGHEST	VALUE	IS				440227.01,						0.00)	DC	
	2ND	HIGHEST	VALUE	IS	0.00476			440327.01,		33.81			90,	(00.0)	DC	
	3RD	HIGHEST	VALUE	IS	0.00467			440077.01,	4247	283.81	, 173.10,	272.	80,	(00.0)	DC	
	4TH	HIGHEST	VALUE	IS	0.00429			440315.68,	42469	322.48	, 173.10,	283.	60,	(00.0)	DC	
	5TH	HIGHEST	VALUE	IS	0.00404	AT	(	440177.01,	42477	283.81	, 173.10,	272.	80,	(00.0)	DC	
	6ТН	HIGHEST	VALUE	IS	0.00362	AT	(	440277.01,	42477	283.81	173.10,	272.	80,	(00.0	DC	
	7TH	HIGHEST	VALUE	IS	0.00350	AT	(	440277.01,	42469	33.81	173.10,	183.	90,	(00.0	DC	
	8TH	HIGHEST	VALUE	IS	0.00347			440227.01,		383.81	, 173.10,	183.	90,	0.00)	DC	
	9TH	HIGHEST	VALUE	IS	0.00325	AT	(	440077.01,	4247	333.81	, 173.10,	327.	10,	(00.0)	DC	
	10TH	HIGHEST	VALUE	IS	0.00362 0.00350 0.00347 0.00325 0.00302	AT	(	440277.01,	4247	333.81	, 173.10,	272.	80,	0.00)	DC	
TRITON		HIGHEST						440227.01,		283.81		272.		0.00)	DC	
		HIGHEST						440327.01,		33.81				(00.0)	DC	
		HIGHEST						440277.01,		283.81		272.		(00.0)	DC	
		HIGHEST						440177.01,		283.81		272.		(00.0)	DC	
		HIGHEST						440315.68,		322.48		283.		0.00)	DC	
		HIGHEST						440277.01,		333.81				0.00)	DC	
		HIGHEST						440315.68,		322.48		272.		(00.0)	DC	
		HIGHEST						440215.68,		322.48		272.		(00.0)	DC	
		HIGHEST						440327.01,		333.81				(00.0)	DC	
	10TH	HIGHEST	VALUE	IS	0.01323	AT	(	440277.01,	42469	33.81	, 173.10,	183.	90,	0.00)	DC	
DA_E70XP		HIGHEST						0.00,		0.00	0.00,			0.00)		
		HIGHEST			0.00000			0.00,		0.00	, 0.00,			0.00)		
		HIGHEST			0.00000			0.00,		0.00 0.00 0.00 0.00	0.00,			(00.0		
		HIGHEST						0.00,		0.00	, 0.00,			(00.0		
		HIGHEST						0.00,		0.00	, 0.00,			0.00)		
		HIGHEST						0.00, 0.00, 0.00, 0.00,		0.00	, 0.00,			(00.0)		
		HIGHEST						0.00,		0.00	, 0.00,			(00.0)		
		HIGHEST						0.00,		0.00	, 0.00,			0.00)		
		HIGHEST						0.00,		0.00	, 0.00,			(00.0)		
	10TH	HIGHEST	VALUE	IS	0.00000	AT	(	0.00.		0.00	0.00,	0.	00.	(00.0)		



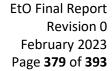


\*\*\* AERMOD - VERSION 22112 \*\*\* 
\*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\* 
\*\*\* AERMET - VERSION 22112 \*\*\* 
\*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

08/19/22 15:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

					Sir Mr	CONC	OF (	НТС	ER I	N MI	CROGRAM	IS/M**	3				A W		
GROUP ID					AVERAGE	CONC		_		RE	CEPTOR	(XR,	YR,	ZELEV,	ZHILL,	, ZFLAG)	OF	TYPE	NETWORK GRID-ID
A TALLP	1cT	HIGHEST	VALUE	TC	0	00267	AT	0	439877	01	47460	33 81		184.90,	184	90	0.001	DC	
M_IALLE		HIGHEST							439963				,	184.50,	184		0.00		
		HIGHEST				00168			439977				•	183.50.	183		0.00		
		HIGHEST				00150			439927					183.60,	183		0.00		
		HIGHEST				00149			439827					186.10,	186		0.00		
		HIGHEST				00138			440015					183.40,	183.		0.00		
	7TH	HIGHEST	VALUE	IS	0.	00138	AT	C	439977	.01.	42467	83.81		184.10,	184	.10.	0.00	DC	
	8TH	HIGHEST	VALUE	IS	0.	00131	AT	(	440027	.01,	42467	83.81		182.00,	282.	.30,	0.00	DC	
	9тн	HIGHEST	VALUE	IS					440027			33.81		183.70,	183		0.00	DC	
	10TH	HIGHEST	VALUE	IS	0.	00120	AT	(	440027	.01,	42467	33.81	,	183.10,	284.	.10,	0.00	DC	
A_LALLP		HIGHEST							439827				y	186.10,			0.00		
		HIGHEST				00066			439877				,	183.10,			0.00)		
		HIGHEST							439915					183.20,	183		0.00)		
		HIGHEST							439927				,	183.60,	183		0.00		
		HIGHEST							439877					184.90,	184		0.00		
		HIGHEST				00052			439927					183.20,	183		0.00		
		HIGHEST							439977					183.80,	284		0.00)		
		HIGHEST				00040			439977					184.10,	184		0.00)		
		HIGHEST							440015					182.70, 173.10.	284		0.00)		
	TOTH	HIGHEST	VALUE	12	0.	00033	AI	(	439827	.ul,	42471	.33.81	,	173.10,	185	.00,	0.00)	DC	
DA_POINT	1ST	HIGHEST	VALUE	IS					439877					184.90,	184		0.00	DC	
		HIGHEST				00267			439827					186.10,	186		0.00)		
		HIGHEST							439963					184.50,	184.		0.00)		
		HIGHEST			0.	00202	AT	(	439927	.01,	42468	33.81	,	183.60,	183.		0.00)		
		HIGHEST							439977					183.50,	183		0.00		
		HIGHEST				00179			439915					183.20,	183		0.00)		
		HIGHEST			0.				439977					184.10,	184		0.00)		
		HIGHEST			0.	00153	AT	(	440015					183.40,	183		0.00		
		HIGHEST			0.	00151	AT	Ċ	440027	.01,	42467	33.81	,	183.10,	284		0.00)		
	10TH	HIGHEST	VALUE	IS	0.	00150	AT	(	439877	.01,	42468	33.81	,	183.10,	183	.10,	0.00)	DC	
AHR2F		HIGHEST							439877					184.90,	184		0.00		
		HIGHEST				02368			439777					173.10,	184		0.00		
		HIGHEST				01964			439963					184.50,	184		0.00		
		HIGHEST							439977		42468			183.50,	183		0.00		
		HIGHEST				01557			440015					173.10,	184		0.00)		
		HIGHEST							440015					183.40,	183		0.00)		
		HIGHEST				01410			440027			33.81		183.70,	183		0.00)		
	OTH	HIGHEST	VALUE	15		01331			439827					173.10,	185		0.00		
									440027					182.00,	282		0.00		
	TOTH	HIGHEST	VALUE	15	0.	01265	AI	(	439927	·UI,	42470	103.61	7	173.10,	185	.00,	0.00)	DC	





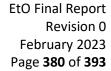
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

08/19/22 15:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

ROUP ID					AVERAGE CONC				RE	CEPTOR	(XR.	YR.	ZELEV.	ZHILL.	ZFLAG`	OF	TYPE	NETWORK GRID-ID
				-			-											
AR45F		HIGHEST		IS	0.03308	AT	(	439727.0	)1,	42471			173.10,	311.		0.00		
	2ND	HIGHEST	VALUE	IS	0.02593			439877.0					184.90,	184.		0.00		
		HIGHEST		IS	0.02348								186.10,	186.	10,	0.00		
	4TH	HIGHEST	VALUE	IS	0.02346			439777.0					173.10,	184.		0.00		
	5TH	HIGHEST	VALUE	IS	0.03308 0.02593 0.02346 0.01922 0.01734 0.01656 0.01646 0.01641								183.60,	183.		0.00		
		HIGHEST		IS	0.01734			439977.0					183.50,	183.		0.00		
		HIGHEST		IS	0.01656			439915.6					183.20,	183.		0.00		
		HIGHEST		IS	0.01646			439977.0					184.10,	184.		0.00		
		HIGHEST		IS	0.01631			439963.2					184.50,	184.		0.00		
	10TH	HIGHEST	VALUE	IS	0.01441	AT	. (	440015.6	38,	42470	22.48	,	173.10,	184.	90,	0.00	) DC	
AR6F		HIGHEST						439827.0					186.10,	186.		0.00		
		HIGHEST			0.00502			439877.0					184.90,	184.		0.00		
		HIGHEST			0.00475			439915.6					183.20,	183.		0.00		
		HIGHEST			0.00468			439927.0					183.60,	183.		0.00		
		HIGHEST			0.00460			439877.0					183.10,	183.		0.00		
		HIGHEST			0.00395			439927.0					183.20,	183.		0.00		
		HIGHEST			0.00381			439977.0					184.10,	184.		0.00		
		HIGHEST			0.00361			439777.0					173.10,	184.		0.00		
		HIGHEST			0.00343			439977.0					183.80,	284.		0.00		
		HIGHEST				AT	(	439827.0	)1,	42471	33.81	,	173.10,	185.	00,	0.00	) DC	
AR7F	1ST	HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST HIGHEST	VALUE	IS	0.00335			439877.0					184.90,	184.		0.00		
	2ND	HIGHEST	VALUE	IS	0.00200								184.50,	184.		0.00		
	3RD	HIGHEST	VALUE	IS	0.00194			439827.0					186.10,	186.		0.00		
	4TH	HIGHEST	VALUE	IS	0.00192	AT	(	439977.0	)1,			,	183.50,	183.		0.00		
	5TH	HIGHEST	VALUE	IS	0.00185			439927.0					183.60,	183.		0.00		
	6ТН	HIGHEST	VALUE	IS	0.00179			439827.0					173.10,	185.		0.00		
	7TH	HIGHEST	VALUE	IS	0.00172			439777.0					173.10,	184.		0.00		
	8TH	HIGHEST	VALUE	IS	0.00164	AT	. (	439977.0					184.10,	184.		0.00		
	9ТН	HIGHEST	VALUE	IS	0.00151			440015.6					183.40,	183.		0.00		
	10TH	HIGHEST	VALUE	IS	0.00147	AT	(	440027.0	)1,	42467	83.81	,	182.00,	282.	30,	0.00	) DC	
AWTILF	1ST	HIGHEST	VALUE	IS	0.04531			439619.8					180.30,	327.		0.00		
		HIGHEST			0.01626								173.10,	327.		0.00		
		HIGHEST			0.01574								173.00,	327.		0.00		
		HIGHEST						439627.0					173.10,	327.		0.00		
		HIGHEST			0.01361								173.10,	327.		0.00		
		HIGHEST			0.01209			439615.6					173.00,	327.		0.00		
		HIGHEST			0.01197	AT	Ç	439577.0					173.00,	327.		0.00		
		HIGHEST			0.01182			439427.0					173.00,	327.		0.00		
		HIGHEST						439727.0					173.10,	311.		0.00		
	TOTH	HIGHEST	VALUE	IS	0.00951	AT	(	439527.0	ж,	42472	33.81	7	173.00,	327.	10,	0.00	DC DC	





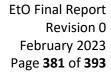
\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

08/19/22 L5:22:38

\*\*\* MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 24 HRS) RESULTS \*\*\*

CALIBIT   1ST HIGHEST VALUE IS   0.02221 AT (   439877.01,   4247133.81,   173.10,   184.90,   0.00) DC						杂妆	CONC	OF	OTHE	R	IN M	1ICROG	RAM	IS/M**	3						St W		
2ND HIGHEST VALUE IS	GROUP ID					AVERAGE	CONC				F	RECEPT	OR	(XR,	YR,	ZEL	.EV,	ZHILL	, ZFLAG	i)	OF '	TYPE	NETWORK GRID-ID
2ND HIGHEST VALUE IS					-								-				-			-			
ARD HIGHEST VALUE IS	OALIBE	1ST	HIGHEST	VALUE	IS	0	.02221	AT	(	43987	7.01	. 42	471	33.81		173.	10,	184	.90,	0.	(00)	DC	
## HTH HIGHEST VALUE IS 0.0128 AT ( 439915.68, 4247122.48, 173.10, 184.60, 0.00) DC STH HIGHEST VALUE IS 0.00556 AT ( 439877.01, 4247038.81, 173.10, 184.70, 0.00) DC TH HIGHEST VALUE IS 0.00529 AT ( 440915.68, 4247022.48, 173.10, 184.70, 0.00) DC STH HIGHEST VALUE IS 0.00513 AT ( 440915.68, 4247022.48, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.00513 AT ( 440915.68, 4247022.48, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.00513 AT ( 440915.68, 4247032.48, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.00466 AT ( 439917.01, 4247183.81, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.00466 AT ( 439917.01, 4247183.81, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.06481 AT ( 439917.01, 4247183.81, 173.10, 184.40, 0.00) DC STH HIGHEST VALUE IS 0.06441 AT ( 439877.01, 4246933.81, 184.90, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.06441 AT ( 439877.01, 4246933.81, 184.90, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.04707 AT ( 439619.88, 4247183.81, 173.10, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.04707 AT ( 439871.01, 4246933.81, 184.90, 184.90, 0.00) DC STH HIGHEST VALUE IS 0.044412 AT ( 439871.01, 4246933.81, 185.50, 0.00) DC STH HIGHEST VALUE IS 0.044412 AT ( 439871.01, 4246933.81, 185.50, 0.00) DC STH HIGHEST VALUE IS 0.044412 AT ( 439871.01, 4246933.81, 185.50, 0.00) DC STH HIGHEST VALUE IS 0.04203 AT ( 439917.01, 4246833.81, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.04203 AT ( 439917.01, 4246833.81, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.03996 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.03962 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.03962 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.04679 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.04679 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.04679 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.046693 AT ( 439917.01, 4246833.81, 183.50, 183.50, 0.00) DC STH HIGHEST VALUE IS 0.04669 AT		2ND	HIGHEST	VALUE	IS	0	.01446	AT	(	43982	7.01	., 42	471	33.81	,	173.	10,	185	.00,	0.	(00)	DC	
STH HIGHEST VALUE IS		3RD	HIGHEST	VALUE	IS	0	.01307	AT	(	43992	7.01	. 42	470	83.81	,	173.	10,	185	.00,	0.	(00)	DC	
TH HIGHEST VALUE IS 0.00556 AT ( 449877.01, 4247333.81, 173.10, 327.10, 0.00) DC TH HIGHEST VALUE IS 0.00513 AT ( 449015.68, 4247022.48, 173.10, 184.90, 0.00) DC TH HIGHEST VALUE IS 0.00513 AT ( 449915.68, 4247022.48, 173.10, 184.90, 0.00) DC TH HIGHEST VALUE IS 0.0046 AT ( 449915.68, 4247322.48, 173.10, 183.50, 183.50, 0.00) DC TH HIGHEST VALUE IS 0.0046 AT ( 449917.01, 4247183.81, 173.10, 184.40, 0.00) DC TH HIGHEST VALUE IS 0.06481 AT ( 43997.701, 4247183.81, 173.10, 184.40, 0.00) DC TH HIGHEST VALUE IS 0.06481 AT ( 43997.701, 4247183.81, 173.10, 184.40, 0.00) DC TH HIGHEST VALUE IS 0.05327 AT ( 43977.701, 4247183.81, 173.10, 184.40, 0.00) DC TH HIGHEST VALUE IS 0.05327 AT ( 43997.701, 4247183.81, 173.10, 184.40, 0.00) DC TH HIGHEST VALUE IS 0.04707 AT ( 4398619.85, 4247706.86, 180.30, 327.10, 0.00) DC TH HIGHEST VALUE IS 0.04442 AT ( 439957.01, 4247183.81, 173.10, 184.50, 0.00) DC TH HIGHEST VALUE IS 0.04442 AT ( 439957.01, 4247183.81, 173.10, 184.50, 0.00) DC TH HIGHEST VALUE IS 0.04462 AT ( 43997.701, 4247183.81, 173.10, 184.50, 0.00) DC TH HIGHEST VALUE IS 0.04402 AT ( 43997.701, 4246933.81, 186.10, 186.10, 0.00) DC TH HIGHEST VALUE IS 0.04203 AT ( 43997.01, 4246833.81, 183.50, 0.00) DC TH HIGHEST VALUE IS 0.03962 AT ( 43997.701, 4246833.81, 183.50, 0.00) DC TH HIGHEST VALUE IS 0.03962 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.05429 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.0660 AT ( 43997.701, 4246833.81, 184.90, 184.90, 0.00) DC TH HIGHEST VALUE IS 0.04669 AT ( 43997.701, 4246833.81, 183.60, 183.60, 0.00) DC TH HIGHEST VALUE IS 0.04669 AT ( 4399		4TH	HIGHEST	VALUE	IS														.60,	0.	(00)	DC	
OA_FUGIT 1ST HIGHEST VALUE IS		5TH	HIGHEST	VALUE	IS	0																	
OA_FUGIT 1ST HIGHEST VALUE IS						0																	
OA_FUGIT 1ST HIGHEST VALUE IS						0																	
OA_FUGIT 1ST HIGHEST VALUE IS						0																	
OA_FUGIT 1ST HIGHEST VALUE IS						0																	
2ND HIGHEST VALUE IS   0.06441 AT ( 439877.01, 4246933.81, 184, 90, 184.90, 0.00) DC   ATH HIGHEST VALUE IS   0.05327 AT ( 439727.01, 4247183.81, 173.10, 311.00, 0.00) DC   STH HIGHEST VALUE IS   0.04707 AT ( 439619.85, 4247306.86, 180.30, 327.10, 0.00) DC   STH HIGHEST VALUE IS   0.04412 AT ( 439827.01, 4247183.81, 184.50, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04426 AT ( 439827.01, 4247183.81, 186.10, 185.00, 0.00) DC   STH HIGHEST VALUE IS   0.04203 AT ( 439827.01, 4247133.81, 186.10, 183.50, 0.00) DC   STH HIGHEST VALUE IS   0.03999 AT ( 440015.68, 4247022.48, 173.10, 183.50, 0.00) DC   STH HIGHEST VALUE IS   0.03999 AT ( 440015.68, 4247033.81, 183.60, 183.50, 0.00) DC   STH HIGHEST VALUE IS   0.03902 AT ( 439927.01, 4246833.81, 183.60, 183.60, 0.00) DC   STH HIGHEST VALUE IS   0.06760 AT ( 439927.01, 4246833.81, 183.60, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.06611 AT ( 439977.01, 4246833.81, 183.60, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.06611 AT ( 439777.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.06611 AT ( 439777.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.04679 AT ( 439927.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.04679 AT ( 439927.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.04679 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.04679 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.00) DC   STH HIGHEST VALUE IS   0.04679 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04669 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04683 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04683 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04683 AT ( 439827.01, 4246833.81, 183.60, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04683 AT ( 439827.01, 4246833.81, 183.60, 184.50, 0.00) DC   STH HIGHEST VALUE IS   0.04680 AT ( 439827.01, 4246833.81, 184.90		10TH	HIGHEST	VALUE	IS	0	.00446	AT	(	43992	7.01	., 42	473	33.81	,	173.	10,	327	.10,	0.	00)	DC	
3RD HIGHEST VALUE IS	OA_FUGIT	1st	HIGHEST	VALUE	IS	0	.06481	AT	(	43977	7.01	, 42	471	83.81		173.	10,	184	.40,	0.	(00)	DC	
## TH HIGHEST VALUE IS 0.04707 AT ( 439619.85, 4247306.86, 180.30, 327.10, 0.00) DC STH HIGHEST VALUE IS 0.04442 AT ( 439827.01, 4246933.81, 184.50, 184.50, 0.000) DC TH HIGHEST VALUE IS 0.04412 AT ( 439827.01, 42467133.81, 173.10, 185.00, 0.000) DC STH HIGHEST VALUE IS 0.04268 AT ( 439827.01, 4247133.81, 173.10, 185.00, 0.000) DC STH HIGHEST VALUE IS 0.04268 AT ( 439827.01, 4247133.81, 183.50, 183.50, 0.000) DC STH HIGHEST VALUE IS 0.03999 AT ( 440015.68, 4247022.48, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.03962 AT ( 439827.01, 4246833.81, 183.60, 188.60, 0.000) DC STH HIGHEST VALUE IS 0.06760 AT ( 439827.01, 4246833.81, 183.60, 188.60, 0.000) DC STH HIGHEST VALUE IS 0.06611 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.06611 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.06611 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4247183.81, 173.10, 184.90, 0.000) DC STH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4246933.81, 186.10, 186.10, 0.000) DC STH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.000) DC STH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4246833.81, 183.50, 184.50, 0.000) DC STH HIGHEST VALUE IS 0.04683 AT ( 439827.01, 4246833.81, 183.50, 183.50, 0.000) DC STH HIGHEST VALUE IS 0.04394 AT ( 439827.01, 4246833.81, 183.50, 183.50, 0.000) DC STH HIGHEST VALUE IS 0.04394 AT ( 439827.01, 4246833.81, 183.50, 183.50, 0.000) DC STH HIGHEST VALUE IS 0.04683 AT ( 439827.01, 4246833.81, 183.60, 183.50, 0.000) DC STH HIGHEST VALUE IS 0.04686 AT ( 439827.01, 4246833.81, 183.60, 183.60, 0.000) DC STH HIGHEST VALUE IS 0.06868 AT ( 439827.01, 4246833.81, 183.60, 183.60, 0.000) DC STH HIGHEST VALUE IS 0.06666 AT ( 439827.01, 4246833.81, 183.60, 183.60, 0.000) DC STH HIGHEST VALUE IS 0.06666 AT ( 439827.01, 4246833.81, 183.60, 183.60, 0.000) DC STH HIGHEST VALUE IS 0.06666 AT ( 439827.01, 4246833.		2ND	HIGHEST	VALUE	IS															0.	(00)	DC	
OA_ALL		3RD	HIGHEST	VALUE	IS	0														0.	(00)	DC	
OA_ALL		4TH	HIGHEST	VALUE	IS	0																	
OA_ALL		5TH	HIGHEST	VALUE	IS	0							468	70.04						0.	(00)	DC	
OA_ALL						0																	
OA_ALL						0																	
OA_ALL						0																	
OA_ALL						0																	
2ND HIGHEST VALUE IS 0.06611 AT ( 43977.01, 4247183.81, 173.10, 184.40, 0.00) DC ATH HIGHEST VALUE IS 0.05429 AT ( 43977.01, 4247183.81, 173.10, 131.00, 0.00) DC ATH HIGHEST VALUE IS 0.04713 AT ( 439619.85, 4247306.86, 180.30, 377.10, 0.00) DC ATH HIGHEST VALUE IS 0.04647 AT ( 43987.01, 4246933.81, 186.10, 186.10, 186.10, 0.00) DC ATH HIGHEST VALUE IS 0.04647 AT ( 439963.24, 4246870.04, 184.50, 184.50, 0.00) DC ATH HIGHEST VALUE IS 0.04392 AT ( 43987.01, 4246833.81, 183.50, 183.50, 0.00) DC ATH HIGHEST VALUE IS 0.04392 AT ( 43987.01, 4247838.81, 183.50, 183.50, 0.00) DC ATH HIGHEST VALUE IS 0.04392 AT ( 43987.01, 424783.81, 173.10, 185.00, 0.00) DC ATH HIGHEST VALUE IS 0.04079 AT ( 440015.68, 4247022.48, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06803 AT ( 43987.01, 424783.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06803 AT ( 43987.01, 424783.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4246183.81, 184.90, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGHEST VALUE IS 0.06603 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC ATH HIGH		10TH	HIGHEST	VALUE	IS	0	.03962	AT	(	43992	7.01	., 42	468	33.81	,	183.	60,	183	.60,	0.	00)	DC	
3RD HIGHEST VALUE IS 0.05429 AT ( 439727.01, 4247183.81, 173.10, 311.00, 0.00) DC 43714 HIGHEST VALUE IS 0.04713 AT ( 439619.85, 424736.86, 180.30, 327.10, 0.00) DC 5TH HIGHEST VALUE IS 0.04679 AT ( 439827.01, 4246933.81, 186.10, 184.50, 184.50, 0.00) DC 7TH HIGHEST VALUE IS 0.04637 AT ( 439827.01, 4246933.81, 184.50, 184.50, 184.50, 0.00) DC 8TH HIGHEST VALUE IS 0.04394 AT ( 439877.01, 4247133.81, 183.50, 183.50, 0.00) DC 9TH HIGHEST VALUE IS 0.04395 AT ( 439827.01, 4247133.81, 183.50, 183.50, 0.00) DC 10TH 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 10TH HIGHEST VALUE IS 0.06660 AT ( 439877.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439877.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439777.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05660 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.01, 4247183.81, 173.10, 311.00, 0.00) DC 10TH HIGHEST VALUE IS 0.05466 AT ( 439777.0	OA_ALL	1ST	HIGHEST	VALUE	IS															0.	(00)	DC	
4TH HIGHEST VALUE IS 0.04713 AT ( 439619.85, 4247306.86, 180.30, 377.10, 0.00) DC 5TH HIGHEST VALUE IS 0.04647 AT ( 43987.01, 4246933.81, 186.10, 186.10, 186.10, 0.00) DC 7TH HIGHEST VALUE IS 0.04647 AT ( 439963.24, 4246870.04, 184.50, 184.50, 0.00) DC 8TH HIGHEST VALUE IS 0.04392 AT ( 43987.01, 424683.81, 183.50, 183.50, 183.50, 0.00) DC 9TH HIGHEST VALUE IS 0.04392 AT ( 439827.01, 424683.81, 183.50, 183.50, 183.50, 0.00) DC 9TH HIGHEST VALUE IS 0.04392 AT ( 439827.01, 424683.81, 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 10TH HIGHEST VALUE IS 0.06803 AT ( 43987.01, 4246933.81, 184.90, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 43977.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01, 4247183.81, 173.10, 184.90, 0.00) DC 10TH HIGHEST VALUE IS 0.06660 AT ( 439727.01,		2ND	HIGHEST	VALUE											,	173.	10,	184		0.	(00)	DC	
		3RD	HIGHEST	VALUE	IS	0	.05429	AT	(	43972	7.01	, 42								0.	(00	DC	
					IS	0	.04713	AT	(	43961	9.85	, 42			,	180.	30,	327	.10,				
					IS	0	.04679	AT	(	43982	7.01	., 42											
					IS	0	.04647	AT	(	43996	3.24	1, 42											
					IS	0	.04394	AT	(	43997	7.01	., 42											
					IS	0	.04392	AT	(	43982	7.01	., 42											
					IS	0	.04165	AT	(	43992	7.01	., 42											
		10TH	HIGHEST	VALUE	IS	0	.04079	AT	(	44001	5.68	3, 42	470	22.48	,	173.	10,	184	.90,	0.	00)	DC	
	UCC_SC				IS	0	.06803	AT	(	43987	7.01	., 42								0.	(00	DC	
		2ND	HIGHEST	VALUE	IS	0	.06660	AT	(	43977	7.01	. 42	471	83.81	,	173.	10,	184	.40,	0.	(00)	DC	
					IS	0	.05466	AT	(	43972	7.01	. 42								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 ( 43997.01, 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					IS		.04738	AT	(	43961	9.85	, 42			,	180.	30,	327		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 ( 439867.01, 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						0									,	186.	10,	186	.10,	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		6ТН	HIGHEST	VALUE	IS	0	.04689	AT					468	70.04		184.	50,	184	.50,	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						0	.04455	AT	(	43982	7.01	42								0.	(00)	DC	
9TH HIGHEST VALUE IS 0.04200 AT ( 440015.68, 4247022.48, 173.10, 184.90, 0.00) DC						0							468	33.81	,	183.	50,	183	.50,	0.	(00)	DC	
						0																	
10TH HIGHEST VALUE IS 0.04198 AT ( 439927.01, 4246833.81, 183.60, 183.60, 0.00) DC		10TH	HIGHEST	VALUE	IS	0	.04198	AT	(	43992	7.01	, 42	468	33.81		183.	60,	183	.60,	0.	(00)	DC	





\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* Ethylene oxide - South Charleston, WV Apr 26-27, 2022 Monitoring Eve \*\*\*
\*\*\* AERMET - VERSION 22112 \*\*\* \*\*\* Oxide Adducts; Triton; Covestro; Chemical Mixing

\*\*\* 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	,	VERAGE CONC I	ECEPTOR (XR, YR, ZELEV,	ZHILL, ZFLAG) OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.06852 AT ( 439877.03	., 4246933.81, 184.90,	184.90. 0.00) DC	
	2ND HIGHEST VALUE IS	0.06738 AT ( 439777.03		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 ( 440577.03	., 4246783.81, 173.10,	311.20. 0.00) DC	
	5TH HIGHEST VALUE IS	0.05523 AT ( 439727.03		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 ( 439827.03	. 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 ( 440327.03	. 4246933.81, 173.10,	183.90, 0.00) DC	
	10TH HIGHEST VALUE IS	0.04550 AT ( 439827.03	., 4247133.81, 173.10,	185.00, 0.00) DC	

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



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*** AERMOD - VERSION 22112 *** *** Ethylene oxide - South Charleston, NV Apr 26-27, 2022 Monitoring Eve ***
*** AERMET - VERSION 22112 *** *** Oxide Adducts; Triton; Covestro; Chemical Mixing ***
    *** MODELOPTS: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL ADJ_U*
   *** Message Summary : AERMOD Model Execution ***
         ----- Summary of Total Messages
A Total of A Total of SW warming Message(s) SW warming Message(s) A Total of L4 Informational Message(s)

A Total of L5 Hours Were Processed

A Total of G Calm Hours Identified

A Total of L Missing Hours Identified ( 4.17 Percent)
        ****** FATAL ERROR MESSAGES ******

*** NONE ***
                                            SO W320
                             PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
  OU W565
                                                                                                                                                                                                                                                                                             PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
PLOTFILE
```



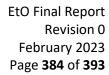
# **Appendix H Excerpts of Plot Files and Total EtO Concentrations for Monitoring Locations**

## January Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

r	X	Υ	AVE	RAGE C	ONC	ZELEV	/ ZHILI	L ZFLAG	ΑV	E GRP	NUM	HRS	NET ID
_													_
4	40609.5000	0 42	55132.	46000	0.0	00033	333.58	353.17	0.00	PERIOD	ALL	00000	026
43	38708.6300	0 424	47210.	72000	0.0	06097	182.78	311.32	0.00	PERIOD	ALL	00000	1026
4	40101.7800	0 424	47450.	15000	0.0	04370	181.45	327.12	0.00	PERIOD	ALL	00000	1026
4	39525.2600	0 424	47769.	16000	0.0	04547	179.89	327.12	0.00	PERIOD	ALL	00000	026
43	32583.0000	0 424	48215.	06000	0.5	51416	181.73	314.57	0.00	PERIOD	ALL	00000	1026
43	31998.2100	0 424	48084.	26000	0.4	42782	180.40	314.57	0.00	PERIOD	ALL	00000	1026
4	32114.3400	0 424	19063.	48000	0.3	37495	183.18	326.46	0.00	PERIOD	ALL	00000	1026
43	31386.1200	0 424	18944.	69000	0.5	54653	182.00	328.25	0.00	PERIOD	ALL	00000	1026

### January Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

٨	X	Υ	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AV	E GRP	NUM	HRS NET ID
k											
	440609.5000	0 425	5132.46000	0.00	003 3	33.58	353.17	0.00	PERIOD	ALL	00000026
	438708.6300	0 424	7210.72000	0.00	861 1	82.78	311.32	0.00	PERIOD	ALL	00000026
	440101.7800	0 424	7450.15000	0.05	849 1	81.45	327.12	0.00	PERIOD	ALL	00000026
	439525.2600	0 424	7769.16000	0.01	724 1	79.89	327.12	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	1	432583.00	4248215.08	0.51416	0.00061	0.51477
13	I	431998.21	4248084.27	0.42782	0.00056	0.42838
14	L	432114.34	4249063.49	0.37495	0.00054	0.37549
15	1	431386.12	4248944.70	0.54653	0.0005	0.54703

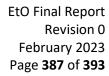


### February Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

k	X	Υ	AVER	AGE CO	ONC	ZELE\	/ ZHIL	L ZFLAG	AV	E GRP	NUM	HRS	NET ID
*						Na sta	_						_
	440609.50000	425	5132.4	16000	0.0	0076	333.58	353.17	0.00	PERIOD	ALL	00000	0025
	438708.63000	424	7210.7	2000	0.0	0526	182.78	311.32	0.00	PERIOD	ALL	00000	0025
	440101.78000	424	7450.1	5000	0.0	0451	181.45	327.12	0.00	PERIOD	ALL	00000	025
	439525.26000	424	7769.1	6000	0.0	0480	179.89	327.12	0.00	PERIOD	ALL	00000	0025
	432583.00000	424	8215.0	6000	0.1	5073	181.73	314.57	0.00	PERIOD	ALL	00000	0025
	431998.21000	424	8084.2	26000	0.6	5099	180.40	314.57	0.00	PERIOD	ALL	00000	0025
	432114.34000	424	9063.4	18000	0.1	1597	183.18	326.46	0.00	PERIOD	ALL	00000	0025
	431386.12000	424	8944.6	9000	0.6	4299	182.00	328.25	0.00	PERIOD	ALL	00000	025

## February Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

*	X	Υ	AVER	AGE	CONC	ZELE	V ZHII	L ZFL	AG AV	'E GRP	NI	JM HRS	NET ID
*						_		- :					_
4406	09.50000	425	5132.4	16000	0.	00037	333.58	353.1	7 0.00	PERIOD	ALL	00000	025
4387	08.63000	424	7210.7	72000	0.	02577	182.78	311.3	2 0.00	PERIOD	ALL	00000	025
4401	01.78000	424	7450.	15000	0.	02148	181.45	327.1	2 0.00	PERIOD	ALL	00000	025
4395	25.26000	424	7769.	16000	0.	03422	179.89	327.1	2 0.00	PERIOD	ALL	00000	025
4325	83.0000	424	8215.0	06000	0.	00144	181.73	314.5	7 0.00	PERIOD	ALL	00000	025
4319	98.21000	424	8084.2	26000	0.	00133	180.40	314.5	7 0.00	PERIOD	ALL	00000	025





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	1	432583.00	4248215.08	0.15073	0.00144	0.15217
13	1	431998.21	4248084.27	0.65099	0.00133	0.65232
14	1	432114.34	4249063.49	0.11597	0.00134	0.11731
15	1	431386.12	4248944.70	0.64299	0.00126	0.64425

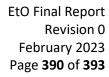


### March Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

9	X	Υ	AVERAGE	CONC	ZELEV	ZHILL	ZFLAG	AV	E GRP	NUM	HRS NET ID
+	·	-									
	440609.5000	00 425	5132.46000	0.00	0027	33.58	353.17	0.00	PERIOD	ALL	00000026
	438708.6300	00 424	7210.72000	0.03	3262	182.78	311.32	0.00	PERIOD	ALL	00000026
	440101.780	00 424	7450.15000	0.02	2573	181.45	327.12	0.00	PERIOD	ALL	00000026
	439525.2600	00 424	7769.16000	0.02	2272	179.89	327.12	0.00	PERIOD	ALL	00000026
	432583.000	00 424	8215.06000	0.35	5088	181.73	314.57	0.00	PERIOD	ALL	00000026
	431998.210	00 424	8084.26000	0.33	3100	180.40	314.57	0.00	PERIOD	ALL	00000026
	432114.3400	00 424	9063.48000	0.72	2641	183.18	326.46	0.00	PERIOD	ALL	00000026
	431386.1200	00 424	8944.69000	0.57	7987	182.00	328.25	0.00	PERIOD	ALL	00000026

### March Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

*	X	Υ	AVER	AGE (	CONC	ZELE	V ZHII	LL	ZFLAG	AV	E GRP	NUM	1 HRS	NET ID
*	<u></u>							- 1-						
4	440609.5000	0 42	55132.4	6000	0.0	00098	333.58	35	3.17	0.00	PERIOD	ALL	00000	0025
2	438708.6300	0 42	47210.7	2000	0.0	03042	182.78	31	1.32	0.00	PERIOD	ALL	00000	0025
4	440101.7800	0 42	47450.1	5000	0.1	12233	181.45	32	7.12	0.00	PERIOD	ALL	00000	0025
4	439525.2600	0 42	47769.1	6000	0.0	7248	179.89	32	7.12	0.00	PERIOD	ALL	00000	0025
2	432583.0000	0 42	48215.0	6000	0.0	00213	181.73	31	4.57	0.00	PERIOD	ALL	00000	0025
4	431998.2100	0 42	48084.2	5000	0.0	00192	180.40	31	4.57	0.00	PERIOD	ALL	00000	0025





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	1	432583.00	4248215.08	0.35088	0.00213	0.35301
13	1	431998.21	4248084.27	0.33100	0.00192	0.33292
14	1	432114.34	4249063.49	0.72641	0.00191	0.72832
15	1	431386.12	4248944.70	0.57987	0.00172	0.58159



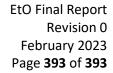
## April Monitoring Event AERMOD Concentrations for Monitoring Locations: Institute (From AERMOD Plot File)

¥	X	Υ	AVERAGE CC	NC ZELE	V ZHIL	L ZFLAG	AV	E GRP	NUM	1 HRS	NET ID
*	·				_						_
	440609.500	00 42	55132.46000	0.00013	333.58	353.17	0.00	PERIOD	ALL	000000	024
	438708.630	00 424	47210.72000	0.00318	182.78	311.32	0.00	PERIOD	ALL	000000	024
	440101.780	00 424	47450.15000	0.00484	181.45	327.12	0.00	PERIOD	ALL	000000	024
	439525.260	00 424	47769.16000	0.00629	179.89	327.12	0.00	PERIOD	ALL	000000	024
	432583.000	00 42	48215.06000	0.14437	181.73	314.57	0.00	PERIOD	ALL	000000	024
	431998.210	00 424	48084.26000	0.05382	180.40	314.57	0.00	PERIOD	ALL	000000	024
	432114.340	00 424	19063.48000	0.16739	183.18	326.46	0.00	PERIOD	ALL	000000	024
	431386.120	00 424	18944.69000	0.15172	182.00	328.25	0.00	PERIOD	ALL	000000	024
	420031.500	00 42	73465.21000	0.00029	181.17	271.57	0.00	PERIOD	ALL	000000	024

## April Monitoring Event AERMOD Concentrations for Monitoring Locations: South Charleston (From AERMOD Plot File)

* >	X	Υ	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
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440609.50000 4255132.46000	0 333.58 353	3.17 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 Contributio n (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	ı	432583.00	4248215.08	0.14437	0.00002	0.14439
13	1	431998.21	4248084.27	0.05382	0.00002	0.05384
14	1	432114.34	4249063.49	0.16739	0.00002	0.16741
15	1	431386.12	4248944.70	0.15172	0.00002	0.15174
Project Background	Buffalo	420031.50	4273465.21	0.00029	0	0.00029