

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
 F-SE0015

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

3.6576

ENTER STACK INSIDE DIAMETER (M):

0.100584

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):

760.29

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

N

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY:

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

SKIP--

DIST (M)	CONC (UG/M**3)	U10M STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	SIGMA DWASH
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3000.	16.14	6	1.0	1.0	10000.0	1.68	91.92	26.98	NO
3500.	13.08	6	1.0	1.0	10000.0	1.68	105.65	28.98	NO
4000.	10.90	6	1.0	1.0	10000.0	1.68	119.17	30.84	NO
4500.	9.280	6	1.0	1.0	10000.0	1.68	132.50	32.57	NO

5000.	8.039	6	1.0	1.0	10000.0	1.68	145.67	34.21	NO
5500.	7.060	6	1.0	1.0	10000.0	1.68	158.69	35.76	NO
6000.	6.271	6	1.0	1.0	10000.0	1.68	171.58	37.23	NO
6500.	5.624	6	1.0	1.0	10000.0	1.68	184.34	38.65	NO
7000.	5.085	6	1.0	1.0	10000.0	1.68	196.99	40.00	NO
7500.	4.646	6	1.0	1.0	10000.0	1.68	209.54	41.16	NO
8000.	4.270	6	1.0	1.0	10000.0	1.68	221.99	42.28	NO
8500.	3.944	6	1.0	1.0	10000.0	1.68	234.34	43.36	NO
9000.	3.660	6	1.0	1.0	10000.0	1.68	246.61	44.40	NO
9500.	3.411	6	1.0	1.0	10000.0	1.68	258.79	45.41	NO
10000.	3.190	6	1.0	1.0	10000.0	1.68	270.90	46.39	NO
15000.	1.880	6	1.0	1.0	10000.0	1.68	388.43	54.89	NO
20000.	1.327	6	1.0	1.0	10000.0	1.68	500.95	60.30	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 100. M:
 100. 3235. 6 1.0 1.0 10000.0 1.68 4.09 2.36 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
 ENTER Y OR N:
 N

USE DISCRETE DISTANCES? ENTER Y OR N:
 Y
 TO CEASE, ENTER A DISTANCE OF ZERO (0).

 *** SCREEN DISCRETE DISTANCES ***

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):
 16

TERRAIN HEIGHT > STACK HEIGHT!
 TERRAIN HEIGHT HAS BEEN SET = STACK HEIGHT.
 USE COMPLEX TERRAIN SCREENING PROCEDURE
 FOR TERRAIN ABOVE STACK HEIGHT.

*** TERRAIN HEIGHT OF 4. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M) Z (M) DWASH

 ENTER DISTANCE (M) (0 TO EXIT):
 9470
 9470. 3.426 6 1.0 1.0 10000.0 1.02 258.07 45.35 NO

ENTER DISTANCE (M) (0 TO EXIT):
 ENTER DISTANCE (M) (0 TO EXIT):
 0

CONTINUE SIMPLE TERRAIN DISCRETE CALCS WITH NEW TERRAIN HEIGHT?
 ENTER Y OR N:
 N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION MAX CONC DIST TO TERRAIN
 PROCEDURE (UG/M**3) MAX (M) HT (M)

 SIMPLE TERRAIN 3235. 100. 3.

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
 F-SE0016

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P
 ENTER EMISSION RATE (G/S):
 0.126
 ENTER STACK HEIGHT (M):
 3.6576
 ENTER STACK INSIDE DIAMETER (M):
 0.100584
 ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:
 OPTION 1 : EXIT VELOCITY (M/S):
 DEFAULT - ENTER NUMBER ONLY
 OPTION 2 : VOLUME FLOW RATE (M**3/S):
 EXAMPLE "VM=20.00"
 OPTION 3 : VOLUME FLOW RATE (ACFM):
 EXAMPLE "VF=1000.00"

0.01
 ENTER STACK GAS EXIT TEMPERATURE (K):
 760.29
 ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
 293
 ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
 0
 ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
 R
 CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
 N
 USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 4.3

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

5

10990

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	PLUME HT ABOVE STK HGT (M)	CONC (UG/M**3)	CONC (UG/M**3)	U10M SC (M/S)	USTK (M)
5.	10990.	.4727E-01	.4727E-01	4.3	.0000	.0	0	.0	.0

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0

0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

2

ENTER MIN AND MAX DISTANCES TO USE (M):

1000

11000

SKIP-----

2800. 17.78 6 1.0 1.0 10000.0 2.68 86.37 25.98 NO
 2900. 16.90 6 1.0 1.0 10000.0 2.68 89.15 26.49 NO
 3000. 16.09 6 1.0 1.0 10000.0 2.68 91.92 26.98 NO
 3500. 13.04 6 1.0 1.0 10000.0 2.68 105.65 28.98 NO
 4000. 10.87 6 1.0 1.0 10000.0 2.68 119.17 30.84 NO
 4500. 9.261 6 1.0 1.0 10000.0 2.68 132.50 32.57 NO
 5000. 8.024 6 1.0 1.0 10000.0 2.68 145.67 34.21 NO
 5500. 7.048 6 1.0 1.0 10000.0 2.68 158.69 35.76 NO
 6000. 6.262 6 1.0 1.0 10000.0 2.68 171.58 37.23 NO
 6500. 5.616 6 1.0 1.0 10000.0 2.68 184.34 38.65 NO
 7000. 5.078 6 1.0 1.0 10000.0 2.68 196.99 40.00 NO
 7500. 4.640 6 1.0 1.0 10000.0 2.68 209.54 41.16 NO
 8000. 4.264 6 1.0 1.0 10000.0 2.68 221.99 42.28 NO
 8500. 3.940 6 1.0 1.0 10000.0 2.68 234.34 43.36 NO
 9000. 3.656 6 1.0 1.0 10000.0 2.68 246.61 44.40 NO
 9500. 3.407 6 1.0 1.0 10000.0 2.68 258.79 45.41 NO
 10000. 3.186 6 1.0 1.0 10000.0 2.68 270.90 46.39 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1000. M:

1000. 83.25 6 1.0 1.0 10000.0 2.68 33.89 13.96 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

Y

ENTER MIN AND MAX DISTANCES TO USE (M):

11000

12000

 *** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 2. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	U10M (M/S)	MIX HT (M)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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11000.	2.814	6	1.0	1.0	10000.0	2.68	294.90	48.26		NO
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ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 11000. M:

11000. 2.814 6 1.0 1.0 10000.0 2.68 294.90 48.26 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

USE DISCRETE DISTANCES? ENTER Y OR N:

N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION MAX CONC DIST TO TERRAIN
PROCEDURE (UG/M**3) MAX (M) HT (M)

SIMPLE TERRAIN 83.25 1000. 2.

COMPLEX TERRAIN .4727E-01 10990. 5. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
**** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
F-SP0023

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

P

ENTER EMISSION RATE (G/S):
0.126

ENTER STACK HEIGHT (M):
60.96

ENTER STACK INSIDE DIAMETER (M):
3.048

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):
EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):
EXAMPLE "VF=1000.00"

15.8496

ENTER STACK GAS EXIT TEMPERATURE (K):
298.53

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?
ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 95.2
 DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
 THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
 IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
 THE DISTANCE TO FINAL RISE.
 FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
 CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
 AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

65
 30680

		VALLEY 24-HR CALCS			**SIMPLE TERRAIN 24-HR CALCS**		
TERR HT (M)	MAX 24-HR DIST (M)	PLUME HT CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M USTK SC (M/S)
65.	30680.	.1038	.1087E-01	95.2	.1038	33.4	6 1.0 2.7

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
 AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0
 0

COMPLEX TERRAIN CALCULATIONS DONE.
 CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y
 USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?
 ENTER Y OR N:

Y
 ENTER CHOICE OF METEOROLOGY;
 1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)
 2 - INPUT SINGLE STABILITY CLASS
 3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1
 USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y
 ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): NEW ELLENTON

35
 ENTER MIN AND MAX DISTANCES TO USE (M):
 9000
 15000

 *** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 35. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
9000.	.5642	6	1.0	2.7	10000.0	59.32	246.79	45.41 NO

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9500. .5454   6  1.0  2.7 10000.0 59.32 258.97 46.40 NO
10000. .5275   6  1.0  2.7 10000.0 59.32 271.07 47.35 NO
15000. .3889   6  1.0  2.7 10000.0 59.32 388.54 55.71 NO
ITERATING TO FIND MAXIMUM CONCENTRATION . . .
    
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MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 9000. M:
9000. .5642   6  1.0  2.7 10000.0 59.32 246.79 45.41 NO
    
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CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:
Y
    
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): AIKEN (2)
61
    
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ENTER MIN AND MAX DISTANCES TO USE (M):
16000
27000
    
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*****
*** SCREEN AUTOMATED DISTANCES ***
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*** TERRAIN HEIGHT OF 61. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES
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DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
16000.	.5341	6	1.0	2.7	10000.0	33.36	411.39	56.86 NO
20000.	.4179	6	1.0	2.7	10000.0	33.36	501.04	61.04 NO
25000.	.3261	6	1.0	2.7	10000.0	33.36	609.82	65.55 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

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MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 16000. M:
16000. .5341   6  1.0  2.7 10000.0 33.36 411.39 56.86 NO
    
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CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:
N
    
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USE DISCRETE DISTANCES? ENTER Y OR N:
Y
TO CEASE, ENTER A DISTANCE OF ZERO (0).
    
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*****
*** SCREEN DISCRETE DISTANCES ***
*****
    
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):
14
*** TERRAIN HEIGHT OF 14. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES
***
    
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DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA
------	------	------	------	--------	-------	-------	-------

(M) (UG/M**3) STAB (M/S) (M/S) (M) HT (M) Y (M) Z (M) DWASH

 ENTER DISTANCE (M) (0 TO EXIT):

27110

27110. .1652 6 1.0 2.7 10000.0 80.32 654.81 67.27 NO

ENTER DISTANCE (M) (0 TO EXIT):

0

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION MAX CONC DIST TO TERRAIN
 PROCEDURE (UG/M**3) MAX (M) HT (M)

 SIMPLE TERRAIN .5642 9000. 35.

COMPLEX TERRAIN .1038 30680. 65. (24-HR CONC)

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

 ***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):

F-SP0256

ENTER SOURCE TYPE: P FOR POINT

F FOR FLARE

A FOR AREA

V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

34.5948

ENTER STACK INSIDE DIAMETER (M):

0.1524

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

46.57344

ENTER STACK GAS EXIT TEMPERATURE (K):

312.405

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 44.6

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): NEW ELLENTON

38

15550

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M SC	USTK (M/S)	
38.	15550.	.3567	.2913E-01	44.6	.3567	10.8	6	1.0	2.0

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): AIKEN

65

30660

65.	30660.	.1192E-01	.1192E-01	44.6	.0000	.0	0	.0	.0
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0

0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

14

ENTER MIN AND MAX DISTANCES TO USE (M):

9000

30000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 14. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	CONC (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
9000.	1.440	6	1.0	2.0	10000.0	31.36	246.63	44.51	NO
9500.	1.357	6	1.0	2.0	10000.0	31.36	258.81	45.51	NO
10000.	1.282	6	1.0	2.0	10000.0	31.36	270.92	46.49	NO
15000.	.8065	6	1.0	2.0	10000.0	31.36	388.44	54.97	NO
20000.	.5855	6	1.0	2.0	10000.0	31.36	500.96	60.37	NO
25000.	.4555	6	1.0	2.0	10000.0	31.36	609.76	64.93	NO
30000.	.3706	6	1.0	2.0	10000.0	31.36	715.59	68.90	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 9000. M:

9000. 1.440 6 1.0 2.0 10000.0 31.36 246.63 44.51 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN 1.440 9000. 14.

COMPLEX TERRAIN .3567 15550. 38. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
**** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
H-SP0002

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

60.96

ENTER STACK INSIDE DIAMETER (M):

3.048

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

19.05

ENTER STACK GAS EXIT TEMPERATURE (K):

298.53

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 97.4

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): AIKEN

66

31090

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	DIST (M)	MAX 24-HR CONC (UG/M**3)	PLUME HT CONC ABOVE STK (UG/M**3)	PLUME HT BASE (M)	PLUME HT CONC ABOVE STK (UG/M**3)	U10M USTK HGT (M)	SC (M/S)
66.	31090.	.1007	.1061E-01	97.4	.1007	35.5 6 1.0 2.7	

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0

0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): NEW ELLENTON

38

ENTER MIN AND MAX DISTANCES TO USE (M):

11000

17000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 38. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M/S)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
11000.	.5055	6	1.0	2.7	10000.0	58.43	295.08	49.31 NO
15000.	.3956	6	1.0	2.7	10000.0	58.43	388.56	55.81 NO

11000. .5055 6 1.0 2.7 10000.0 58.43 295.08 49.31 NO

15000. .3956 6 1.0 2.7 10000.0 58.43 388.56 55.81 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 11000. M:

11000. .5055 6 1.0 2.7 10000.0 58.43 295.08 49.31 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

USE DISCRETE DISTANCES? ENTER Y OR N:

Y

TO CEASE, ENTER A DISTANCE OF ZERO (0).

 *** SCREEN DISCRETE DISTANCES ***

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): WILLISTON

15

*** TERRAIN HEIGHT OF 15. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M/S)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
24030.	.1766	6	1.0	2.7	10000.0	81.43	588.98	64.82 NO

 ENTER DISTANCE (M) (0 TO EXIT):

24030

24030. .1766 6 1.0 2.7 10000.0 81.43 588.98 64.82 NO

ENTER DISTANCE (M) (0 TO EXIT):

0

ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	HT (M)
SIMPLE TERRAIN	.5055	11000.	38.
COMPLEX TERRAIN	.1007	31090.	66. (24-HR CONC)

COMPLEX TERRAIN .1007 31090. 66. (24-HR CONC)

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):

H-TP0001

ENTER SOURCE TYPE: P FOR POINT

F FOR FLARE

A FOR AREA

V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

60.96

ENTER STACK INSIDE DIAMETER (M):

3.048

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

4.075176

ENTER STACK GAS EXIT TEMPERATURE (K):

298.53

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 82.7

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): AIKEN

65

31000

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	PLUME HT CONC ABOVE STK (UG/M**3)	PLUME HT CONC ABOVE STK BASE (M)	PLUME HT CONC ABOVE STK (UG/M**3)	PLUME HT CONC ABOVE STK HGT (M)	U10M USTK SC (M/S)
65.	31000.	.1104	.1147E-01	82.7	.1104	21.2	6 1.0 2.7

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROS TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.
CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:
Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?
ENTER Y OR N:

Y
ENTER CHOICE OF METEOROLOGY;
1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)
2 - INPUT SINGLE STABILITY CLASS
3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1
USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y
ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): WILLISTON

14
ENTER MIN AND MAX DISTANCES TO USE (M):

11000
25000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 14. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
11000.	.3873	6	1.0	2.7	10000.0	68.17	294.96	48.63	NO
15000.	.3229	6	1.0	2.7	10000.0	68.17	388.47	55.22	NO
20000.	.2596	6	1.0	2.7	10000.0	68.17	500.99	60.60	NO
25000.	.2161	6	1.0	2.7	10000.0	68.17	609.78	65.14	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 11000. M:
11000. .3873 6 1.0 2.7 10000.0 68.17 294.96 48.63 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 30000. M:
30000. .2424 6 1.0 2.7 10000.0 45.17 715.61 69.10 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:
N

USE DISCRETE DISTANCES? ENTER Y OR N:
Y

TO CEASE, ENTER A DISTANCE OF ZERO (0).

 *** SCREEN DISCRETE DISTANCES ***

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): NEW ELLENTON

37

*** TERRAIN HEIGHT OF 37. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M/S)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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 ENTER DISTANCE (M) (0 TO EXIT):

15880

15880. .4677 6 1.0 2.7 10000.0 45.17 408.59 56.24 NO

ENTER DISTANCE (M) (0 TO EXIT):

0

CONTINUE SIMPLE TERRAIN DISCRETE CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	HT (M)
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 SIMPLE TERRAIN .4677 15880. 37.

COMPLEX TERRAIN .1104 31000. 65. (24-HR CONC)

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):

H-TP0002

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P
 ENTER EMISSION RATE (G/S):
 0.126
 ENTER STACK HEIGHT (M):
 60.96
 ENTER STACK INSIDE DIAMETER (M):
 2.173224
 ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:
 OPTION 1 : EXIT VELOCITY (M/S):
 DEFAULT - ENTER NUMBER ONLY
 OPTION 2 : VOLUME FLOW RATE (M**3/S):
 EXAMPLE "VM=20.00"
 OPTION 3 : VOLUME FLOW RATE (ACFM):
 EXAMPLE "VF=1000.00"
 10.0584

ENTER STACK GAS EXIT TEMPERATURE (K):
 298.53

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
 293
 ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
 0
 ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
 R
 CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
 N
 USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?
 ENTER Y OR N:
 Y

FINAL STABLE PLUME HEIGHT (M) = 84.4
 DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
 THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
 IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
 THE DISTANCE TO FINAL RISE.
 FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
 CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
 AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): AIKEN
 66
 30930

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**										
TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M SC	USTK (M/S)		
66.	30930.	.1098	.1146E-01	84.4	.1098	22.9	6	1.0	2.7	

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROS TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): NEW ELLENTON

38

ENTER MIN AND MAX DISTANCES TO USE (M):

11000

16000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 38. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	U10M (M/S)	USTK (M)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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11000.	.6634	6	1.0	2.7	10000.0	45.84	294.97	48.70	NO
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15000.	.4900	6	1.0	2.7	10000.0	45.84	388.48	55.27	NO
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ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 11000. M:

11000.	.6634	6	1.0	2.7	10000.0	45.84	294.97	48.70	NO
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CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

USE DISCRETE DISTANCES? ENTER Y OR N:

Y

TO CEASE, ENTER A DISTANCE OF ZERO (0).

*** SCREEN DISCRETE DISTANCES ***

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

15

*** TERRAIN HEIGHT OF 15. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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ENTER DISTANCE (M) (0 TO EXIT):

24360

24360. .2185 6 1.0 2.7 10000.0 68.84 596.04 64.64 NO

ENTER DISTANCE (M) (0 TO EXIT):

0

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	HT (M)
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SIMPLE TERRAIN .6634 11000. 38.

COMPLEX TERRAIN .1098 30930. 66. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
*** VERSION DATED 95250 ***

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
H-TP0053

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

15.24

ENTER STACK INSIDE DIAMETER (M):

2.1336

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

9.906

ENTER STACK GAS EXIT TEMPERATURE (K):

298.53

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 38.3

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): SRS A

20

7440

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M SC	USTK (M/S)
20.	7440.	1.149	.7515E-01	38.3	1.149	29.0	6	1.0 1.3

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): SRS B

35

11570

35.	11570.	.6974	.4362E-01	38.3	.6974	29.0	6	1.0 1.3
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): SRS D

18

3130

18.	3130.	2.776	.2234	38.3	2.776	29.0	6	1.0 1.3
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0

0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M): JACKSON

12

ENTER MIN AND MAX DISTANCES TO USE (M):

3000

14000

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH	
3000.	6.361	6	1.0	1.3	10000.0	32.23	92.30	28.22	NO
3500.	5.622	6	1.0	1.3	10000.0	32.23	105.98	30.14	NO
4000.	5.011	6	1.0	1.3	10000.0	32.23	119.46	31.93	NO
4500.	4.501	6	1.0	1.3	10000.0	32.23	132.76	33.61	NO
5000.	4.073	6	1.0	1.3	10000.0	32.23	145.91	35.20	NO
5500.	3.709	6	1.0	1.3	10000.0	32.23	158.91	36.70	NO
6000.	3.397	6	1.0	1.3	10000.0	32.23	171.78	38.14	NO
6500.	3.128	6	1.0	1.3	10000.0	32.23	184.53	39.52	NO
7000.	2.893	6	1.0	1.3	10000.0	32.23	197.17	40.85	NO
7500.	2.691	6	1.0	1.3	10000.0	32.23	209.70	41.99	NO
8000.	2.512	6	1.0	1.3	10000.0	32.23	222.14	43.08	NO
8500.	2.354	6	1.0	1.3	10000.0	32.23	234.49	44.14	NO
9000.	2.213	6	1.0	1.3	10000.0	32.23	246.75	45.17	NO
9500.	2.086	6	1.0	1.3	10000.0	32.23	258.93	46.16	NO
10000.	1.971	6	1.0	1.3	10000.0	32.23	271.03	47.12	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 3000. M:

3000. 6.361 6 1.0 1.3 10000.0 32.23 92.30 28.22 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

USE DISCRETE DISTANCES? ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

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*** SUMMARY OF SCREEN MODEL RESULTS ***
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CALCULATION MAX CONC DIST TO TERRAIN
 PROCEDURE (UG/M**3) MAX (M) HT (M)

 SIMPLE TERRAIN 6.361 3000. 12.

COMPLEX TERRAIN 2.776 3130. 18. (24-HR CONC)

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
 K-PF0002

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P

ENTER EMISSION RATE (G/S):
 0.126

ENTER STACK HEIGHT (M):
 9.144

ENTER STACK INSIDE DIAMETER (M):
 1.0668

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):

579.915

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 10.3

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): S R S E

10
4810

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M SC	USTK (M/S)
10.	4810.	3.378	.1515	10.3	3.378	2.7	6	1.0

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): JACKSON

12
17680

12.	17680.	.2463E-01	.2463E-01	10.3	.0000	.0	0	.0
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

5

ENTER MIN AND MAX DISTANCES TO USE (M):

10000

20000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 5. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
10000.	3.155	6	1.0	1.0	10000.0	6.88	270.91	46.41 NO
15000.	1.866	6	1.0	1.0	10000.0	6.88	388.43	54.91 NO
20000.	1.319	6	1.0	1.0	10000.0	6.88	500.95	60.32 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10000. M:
10000. 3.155 6 1.0 1.0 10000.0 6.88 270.91 46.41 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:
N

USE DISCRETE DISTANCES? ENTER Y OR N:
N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN 3.155 10000. 5.

COMPLEX TERRAIN 3.378 4810. 10. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
*** VERSION DATED 95250 ***

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
K-PF0003

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

P
ENTER EMISSION RATE (G/S):
0.126

ENTER STACK HEIGHT (M):

6.858

ENTER STACK INSIDE DIAMETER (M):

1.014984

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):

571.59

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 8.0

DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): SRS E

10

4830

VALLEY 24-HR CALCS **SIMPLE TERRAIN 24-HR CALCS**

TERR HT (M)	DIST (M)	MAX 24-HR CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M USTK SC	U10M USTK (M/S)
10.	4830.	.1506	.1506	8.0	.0000	.0 0 .0 .0		

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT): JACKSON A

12

17680

12.	17680.	.2463E-01	.2463E-01	8.0	.0000	.0 0 .0 .0		
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.
CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:
Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?
ENTER Y OR N:

Y
ENTER CHOICE OF METEOROLOGY;
1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)
2 - INPUT SINGLE STABILITY CLASS
3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1
USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y
ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

5
ENTER MIN AND MAX DISTANCES TO USE (M):
10000
20000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 5. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	CONC (M/S)	U10M MIX	HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
10000.	3.175	6	1.0	1.0	10000.0	4.53	270.91	46.41	NO
15000.	1.874	6	1.0	1.0	10000.0	4.53	388.43	54.91	NO
20000.	1.324	6	1.0	1.0	10000.0	4.53	500.95	60.32	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10000. M:
10000. 3.175 6 1.0 1.0 10000.0 4.53 270.91 46.41 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
ENTER Y OR N:

N

USE DISCRETE DISTANCES? ENTER Y OR N:
N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	TERRAIN HT (M)
-----	-----	-----	-----

SIMPLE TERRAIN 3.175 10000. 5.

COMPLEX TERRAIN .1506 4830. 10. (24-HR CONC)

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
 M-MP0411

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P

ENTER EMISSION RATE (G/S):
 0.126

ENTER STACK HEIGHT (M):
 15.24

ENTER STACK INSIDE DIAMETER (M):
 0.326136

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):
 DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):
 EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):
 EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):
 347.925

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
 293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
 0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
 R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
 N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?
 ENTER Y OR N:

Y

FINAL STABLE PLUME HEIGHT (M) = 15.6
 DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
THE DISTANCE TO FINAL RISE.

FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

16
5010

		VALLEY 24-HR CALCS			**SIMPLE TERRAIN 24-HR CALCS**		
TERR HT (M)	MAX 24-HR DIST (M)	CONC (UG/M**3)	PLUME HT CONC (UG/M**3)	PLUME HT ABOVE STK BASE (M)	CONC (UG/M**3)	PLUME HT ABOVE STK HGT (M)	U10M USTK SC (M/S)
16.	5010.	.1430	.1430	15.6	.0000	.0 0 .0	.0

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

18
5260

18.	5260.	.1334	.1334	15.6	.0000	.0 0 .0	.0
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

18
8200

18.	8200.	.7112E-01	.7112E-01	15.6	.0000	.0 0 .0	.0
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ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

10

*** TERRAIN HEIGHT OF 10. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA
------	------	------	------	--------	-------	-------	-------

(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
5000.	6.287	6	1.0	1.3	10000.0	5.97	145.67	34.21	NO
5500.	5.528	6	1.0	1.3	10000.0	5.97	158.69	35.76	NO
6000.	4.916	6	1.0	1.3	10000.0	5.97	171.58	37.24	NO
6500.	4.412	6	1.0	1.3	10000.0	5.97	184.34	38.65	NO
7000.	3.992	6	1.0	1.3	10000.0	5.97	196.99	40.00	NO
7500.	3.649	6	1.0	1.3	10000.0	5.97	209.54	41.17	NO
8000.	3.356	6	1.0	1.3	10000.0	5.97	221.99	42.28	NO
8500.	3.101	6	1.0	1.3	10000.0	5.97	234.34	43.36	NO
9000.	2.879	6	1.0	1.3	10000.0	5.97	246.61	44.40	NO
9500.	2.684	6	1.0	1.3	10000.0	5.97	258.79	45.41	NO
10000.	2.511	6	1.0	1.3	10000.0	5.97	270.90	46.39	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 5000. M:
 5000. 6.287 6 1.0 1.3 10000.0 5.97 145.67 34.21 NO

CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?
 ENTER Y OR N:
 N

USE DISCRETE DISTANCES? ENTER Y OR N:
 Y
 TO CEASE, ENTER A DISTANCE OF ZERO (0).

 *** SCREEN DISCRETE DISTANCES ***

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):
 4
 *** TERRAIN HEIGHT OF 4. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST	CONC	U10M	USTK	MIX	HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
2810	12.69	6	1.0	1.3	10000.0	11.97	86.65	26.04	NO

ENTER DISTANCE (M) (0 TO EXIT):
 0

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:
 N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO TERRAIN
PROCEDURE	(UG/M**3)	MAX (M) HT (M)

SIMPLE TERRAIN 12.69 2810. 4.

COMPLEX TERRAIN .1438 4990. 16. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****

**** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):

M-MP0411 SECOND RUN

ENTER SOURCE TYPE: P FOR POINT

F FOR FLARE

A FOR AREA

V FOR VOLUME

P

ENTER EMISSION RATE (G/S):

0.126

ENTER STACK HEIGHT (M):

15.24

ENTER STACK INSIDE DIAMETER (M):

0.326136

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):

DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):

347.925

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

N

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

N

ENTER CHOICE OF METEOROLOGY;

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS
 3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED
 1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
2500.	13.49	6	1.0	1.3	10000.0	15.97	77.95	24.43 NO
2600.	12.86	6	1.0	1.3	10000.0	15.97	80.77	24.96 NO
2700.	12.28	6	1.0	1.3	10000.0	15.97	83.57	25.48 NO
2800.	11.74	6	1.0	1.3	10000.0	15.97	86.37	25.99 NO
2900.	11.23	6	1.0	1.3	10000.0	15.97	89.15	26.49 NO
3000.	10.77	6	1.0	1.3	10000.0	15.97	91.92	26.98 NO
3500.	8.926	6	1.0	1.3	10000.0	15.97	105.65	28.98 NO
4000.	7.570	6	1.0	1.3	10000.0	15.97	119.17	30.84 NO
4500.	6.536	6	1.0	1.3	10000.0	15.97	132.50	32.58 NO
5000.	5.725	6	1.0	1.3	10000.0	15.97	145.67	34.21 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 2500. M:

2500. 13.49 6 1.0 1.3 10000.0 15.97 77.95 24.43 NO

USE DISCRETE DISTANCES? ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN 13.49 2500. 0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****

**** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
N-GE0001

ENTER SOURCE TYPE: P FOR POINT
F FOR FLARE
A FOR AREA
V FOR VOLUME

P

ENTER EMISSION RATE (G/S):
0.126

ENTER STACK HEIGHT (M):
3.6576

ENTER STACK INSIDE DIAMETER (M):
0.0984504

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:

OPTION 1 : EXIT VELOCITY (M/S):
DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):
EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):
EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):
782.49

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?
ENTER Y OR N:

N

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?
ENTER Y OR N:

N

ENTER CHOICE OF METEOROLOGY;
1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)
2 - INPUT SINGLE STABILITY CLASS
3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:
Y

ENTER MIN AND MAX DISTANCES TO USE (M):
9000
15000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
9000.	3.643	6	1.0	1.0	10000.0	4.67	246.61	44.40 NO
9500.	3.395	6	1.0	1.0	10000.0	4.67	258.79	45.41 NO
10000.	3.176	6	1.0	1.0	10000.0	4.67	270.90	46.39 NO
15000.	1.874	6	1.0	1.0	10000.0	4.67	388.43	54.89 NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 9000. M:
 9000. 3.643 6 1.0 1.0 10000.0 4.67 246.61 44.40 NO

USE DISCRETE DISTANCES? ENTER Y OR N:
 N

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	HT (M)
SIMPLE TERRAIN	3.643	9000.	0.

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
 **** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
 P-PF0002

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P
 ENTER EMISSION RATE (G/S):
 0.126
 ENTER STACK HEIGHT (M):
 7.62
 ENTER STACK INSIDE DIAMETER (M):
 1.0668
 ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:
 OPTION 1 : EXIT VELOCITY (M/S):
 DEFAULT - ENTER NUMBER ONLY

OPTION 2 : VOLUME FLOW RATE (M**3/S):

EXAMPLE "VM=20.00"

OPTION 3 : VOLUME FLOW RATE (ACFM):

EXAMPLE "VF=1000.00"

0.01

ENTER STACK GAS EXIT TEMPERATURE (K):

532.74

ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):

293

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

0

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

R

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

N

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?

ENTER Y OR N:

N

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

N

ENTER CHOICE OF METEOROLOGY:

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER MIN AND MAX DISTANCES TO USE (M):

7000

22000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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7000.	4.924	6	1.0	1.0	10000.0	10.17	197.00	40.03	NO
7500.	4.507	6	1.0	1.0	10000.0	10.17	209.54	41.20	NO
8000.	4.148	6	1.0	1.0	10000.0	10.17	221.99	42.31	NO
8500.	3.837	6	1.0	1.0	10000.0	10.17	234.35	43.39	NO
9000.	3.566	6	1.0	1.0	10000.0	10.17	246.61	44.43	NO
9500.	3.326	6	1.0	1.0	10000.0	10.17	258.80	45.44	NO
10000.	3.114	6	1.0	1.0	10000.0	10.17	270.91	46.41	NO
15000.	1.848	6	1.0	1.0	10000.0	10.17	388.43	54.91	NO
20000.	1.309	6	1.0	1.0	10000.0	10.17	500.95	60.32	NO

ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 7000. M:

7000. 4.924 6 1.0 1.0 10000.0 10.17 197.00 40.03 NO

USE DISCRETE DISTANCES? ENTER Y OR N:

Y
TO CEASE, ENTER A DISTANCE OF ZERO (0).

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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ENTER DISTANCE (M) (0 TO EXIT):

21000

21000. 1.234 6 1.0 1.0 10000.0 10.17 522.98 61.29 NO

ENTER DISTANCE (M) (0 TO EXIT):

22000

22000. 1.167 6 1.0 1.0 10000.0 10.17 544.87 62.22 NO

ENTER DISTANCE (M) (0 TO EXIT):

23000

23000. 1.107 6 1.0 1.0 10000.0 10.17 566.62 63.13 NO

ENTER DISTANCE (M) (0 TO EXIT):

25000

25000. 1.001 6 1.0 1.0 10000.0 10.17 609.75 64.88 NO

ENTER DISTANCE (M) (0 TO EXIT):

0

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	HT (M)
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SIMPLE TERRAIN 4.924 7000. 0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N:

***** SCREEN3 MODEL *****
**** VERSION DATED 95250 ****

ENTER TITLE FOR THIS RUN (UP TO 79 CHARACTERS):
S-DP0007

ENTER SOURCE TYPE: P FOR POINT
 F FOR FLARE
 A FOR AREA
 V FOR VOLUME

P
 ENTER EMISSION RATE (G/S):
 0.126
 ENTER STACK HEIGHT (M):
 44.8056
 ENTER STACK INSIDE DIAMETER (M):
 1.524
 ENTER STACK GAS EXIT VELOCITY OR FLOW RATE:
 OPTION 1 : EXIT VELOCITY (M/S):
 DEFAULT - ENTER NUMBER ONLY
 OPTION 2 : VOLUME FLOW RATE (M**3/S):
 EXAMPLE "VM=20.00"
 OPTION 3 : VOLUME FLOW RATE (ACFM):
 EXAMPLE "VF=1000.00"

25.908
 ENTER STACK GAS EXIT TEMPERATURE (K):
 298.53
 ENTER AMBIENT AIR TEMPERATURE (USE 293 FOR DEFAULT) (K):
 293
 ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):
 0
 ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):
 R
 CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:
 N
 USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT?
 ENTER Y OR N:
 Y

FINAL STABLE PLUME HEIGHT (M) = 70.2
 DISTANCE TO FINAL RISE (M) = 151.3

MAXIMUM CONCENTRATIONS ARE EXPECTED TO OCCUR DUE TO PLUME IMPACTION.
 THEREFORE ENTER MINIMUM DISTANCES AND TERRAIN HEIGHTS FOR WHICH
 IMPACTION IS LIKELY, TAKING INTO ACCOUNT TERRAIN CLOSER THAN
 THE DISTANCE TO FINAL RISE.
 FOR TERRAIN BELOW PLUME HEIGHT, SIMPLE TERRAIN AND VALLEY 24-HR
 CALCULATIONS ARE BOTH MADE AND THE MAXIMUM SELECTED.

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),
 AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):
 49
 12940

		VALLEY 24-HR CALCS			**SIMPLE TERRAIN 24-HR CALCS**		
TERR HT (M)	DIST (M)	MAX 24-HR CONC (UG/M**3)	PLUME HT CONC ABOVE STK BASE (M)	PLUME HT CONC ABOVE STK BASE (M)	PLUME HT CONC ABOVE STK HGT (M)	U10M SC	USTK (M/S)
49.	12940.	.3487	.3494E-01	70.2	.3487	26.2	6 1.0 2.3

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M),

AND DISTANCE TO TERRAIN (M) (ZEROES TO EXIT):

0
0

COMPLEX TERRAIN CALCULATIONS DONE.

CONTINUE WITH SIMPLE TERRAIN CALCULATIONS? ENTER Y OR N:

Y

USE SIMPLE TERRAIN SCREEN WITH TERRAIN ABOVE STACK BASE?

ENTER Y OR N:

Y

ENTER CHOICE OF METEOROLOGY:

1 - FULL METEOROLOGY (ALL STABILITIES & WIND SPEEDS)

2 - INPUT SINGLE STABILITY CLASS

3 - INPUT SINGLE STABILITY CLASS AND WIND SPEED

1

USE AUTOMATED DISTANCE ARRAY? ENTER Y OR N:

Y

ENTER TERRAIN HEIGHT ABOVE STACK BASE (M):

11

ENTER MIN AND MAX DISTANCES TO USE (M):

10000

14000

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 11. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M**3)	U10M STAB	CONC (M/S)	U10M MIX	HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
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10000.	.6109	6	1.0	2.3	10000.0	60.00	271.01	46.98	NO
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ITERATING TO FIND MAXIMUM CONCENTRATION . . .

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10000. M:

10000.	.6109	6	1.0	2.3	10000.0	60.00	271.01	46.98	NO
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CONTINUE SIMPLE TERRAIN AUTOMATED CALCS WITH NEW TERRAIN HEIGHT?

ENTER Y OR N:

N

USE DISCRETE DISTANCES? ENTER Y OR N:

N

DO YOU WISH TO MAKE A FUMIGATION CALCULATION? ENTER Y OR N:

N

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO TERRAIN MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN .6109 10000. 11.

COMPLEX TERRAIN .3487 12940. 49. (24-HR CONC)

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

DO YOU WANT TO PRINT A HARDCOPY OF THE RESULTS? ENTER Y OR N: