



Engineering, Surveying and Landscape Architecture, P.C.

Air Quality Appendix

Description

Attachment A: Microscale Input Files
Attachment B: Microscale Output Files
Attachment C: Cal3QHC Intersection Figures
Attachment D: Microscale Results
Attachment E: Emission Factors



Engineering, Surveying and Landscape Architecture, P.C.

Attachment A

Description

Microscale Input Files

EX_1
'Calverton' 60 175 0 0 50 0.3048 1 0
'25/Edwards NE1' 28579.14 10433.73 6
'25/Edwards NE2' 28572.69 10408.86 6
'25/Edwards NE3' 28575.24 10383.99 6
'25/Edwards NE4' 28577.8 10359.12 6
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'25/Edwards NE7' 28585.45 10284.51 6
'25/Edwards NE8' 28588.01 10259.85 6
'25/Edwards NE9' 28590.58 10234.57 6
'25/Edwards NE10' 28593.09 10209.61 6
'25/Edwards NE11' 28595.66 10185.04 6
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'25/Edwards NE17' 28699.33 10118.8 6
'25/Edwards NE18' 28723.91 10114.81 6
'25/Edwards NE19' 28748.51 10110.66 6
'25/Edwards NE20' 28773.15 10106.6 6
'25/Edwards NE21' 28798.05 10102.42 6
'25/Edwards NE22' 28822.71 10098.31 6
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'25/Edwards SE24' 28628.93 9787.58 6
'25/Edwards SE25' 28631.7 9762.76 6
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2
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'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
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2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
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2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 100 37.1 1600 1 3
2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
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EX_1
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1
'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 809 4.24 1 66
1
'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 431 4.34 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1112 4.24 1 66
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'25/Burman East' 'AG' 13634 9549.5 14044 9671 775 4.24 1 66
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'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 587 4.34 1 42
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'25/Edwards West' 'AG' 28574 10103 28153.5 10175 1501 4.24 1 54
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EX_1a
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'25/Edwards NW20' 28519.38 10321.47 6
'25/Edwards NW21' 28516.93 10346.36 6
'25/Edwards NW22' 28514.21 10371.31 6
'25/Edwards NW23' 28513.54 10393.12 0
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'Existing' 29 1 0 'C'
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'25/Wading SB LTR' 'AG' 4586.5 5120 4571.5 5259.5 1 20 2
80 55 3 248 37.1 1600 1 3
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'25/Wading WB LTR' 'AG' 4635.5 5114 4754.5 5205 1 30 3
80 25 3 496 37.1 1600 1 3
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'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
80 55 3 248 37.1 1600 1 3
2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 332 37.1 1600 1 3
2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 100 37.1 1600 1 3
2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
95 35 3 398 37.1 1600 1 3
2
'25/25A EB LT' 'AG' 16490 10154 16275 10116 1 10 1
95 35 3 319 37.1 1600 1 3
2
'25/25A SB LR' 'AG' 16534.5 10214 16407.5 10333.5 1 20 2
95 60 3 282 37.1 1600 1 3

EX_1a
2
'25/25A WB TR' 'AG' 16715.5 10219 16907 10246 1 20 2
95 35 3 951 37.1 1600 1 3
2
'25/Edwards EB LTR' 'AG' 28529 10104.5 28292 10141.5 1 10 1
90 30 3 648 37.1 1600 1 3
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'25/Edwards SB LTR' 'AG' 28564 10143 28540 10351 1 10 1
90 60 3 194 37.1 1600 1 3
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'25/Edwards NB LTR' 'AG' 28576 10049.5 28591 9913 1 10 1
90 60 3 312 37.1 1600 1 3
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'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 542 4.34 1 42
1
'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 809 4.24 1 66
1
'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 431 4.34 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1112 4.24 1 66
1
'25/Burman East' 'AG' 13634 9549.5 14044 9671 775 4.24 1 66
1
'25/Burman South' 'AG' 13639 9543.5 13719 9214.5 128 6.78 1 54
1
'25/Burman West' 'AG' 13634 9549.5 13219 9440 757 4.24 1 66
1
'25/25A North' 'AG' 16548 10195 16330.5 10423.5 815 4.23 1 42
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'25/25A North-RT' 'AG' 16489.5 10169 16472.5 10275.5 30 4.23 1 30
1
'25/25A East' 'AG' 16549.5 10187.5 16946 10241.5 1493 4.24 1 54
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'25/25A West' 'AG' 16549.5 10178 16079 10088.5 766 4.24 1 54
1
'25/Edwards North' 'AG' 28574 10092.5 28539 10433.5 411 4.34 1 42
1
'25/Edwards East' 'AG' 28569.5 10103 28950.5 10039.5 1321 4.24 1 54
1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 587 4.34 1 42
1
'25/Edwards West' 'AG' 28574 10103 28153.5 10175 1501 4.24 1 54
1 0 4 1000 0 'Y' 10 0 36

										EX_2
'Calverton'	60	175	0	0	50	0.3048	1	0		
'25/25A NE1'		16354.08		10443.69	6					
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'25/25A NE3'		16388.55		10407.48	6					
'25/25A NE4'		16405.79		10389.37	6					
'25/25A NE5'		16423.02		10371.26	6					
'25/25A NE6'		16440.26		10353.15	6					
'25/25A NE7'		16457.5		10335.04	6					
'25/25A NE8'		16474.73		10316.94	6					
'25/25A NE9'		16491.97		10298.83	6					
'25/25A NE10'		16509.2		10280.72	6					
'25/25A NE11'		16526.44		10262.61	6					
'25/25A NE12'		16543.68		10244.5	6					
'25/25A NE13'		16560.91		10226.4	6					
'25/25A NE14'		16585.69		10229.77	6					
'25/25A NE15'		16610.46		10233.14	6					
'25/25A NE16'		16635.23		10236.52	6					
'25/25A NE17'		16660		10239.89	6					
'25/25A NE18'		16684.77		10243.26	6					
'25/25A NE19'		16709.54		10246.64	6					
'25/25A NE20'		16759.08		10253.39	6					
'25/25A NE21'		16783.86		10256.76	6					
'25/25A NE22'		16808.63		10260.13	6					
'25/25A NE23'		16833.4		10263.51	6					
'25/25A NE25'		16882.94		10270.25	6					
'25/25A S1'		16861.84		10192.7	6					
'25/25A S2'		16837.07		10189.32	6					
'25/25A S3'		16812.3		10185.95	6					
'25/25A S4'		16787.53		10182.58	6					
'25/25A S5'		16762.76		10179.2	6					
'25/25A S6'		16737.98		10175.83	6					
'25/25A S7'		16713.21		10172.45	6					
'25/25A S8'		16688.44		10169.08	6					
'25/25A S9'		16663.67		10165.71	6					
'25/25A S10'		16638.9		10162.33	6					
'25/25A S11'		16614.13		10158.96	6					
'25/25A S12'		16589.36		10155.59	6					
'25/25A S13'		16564.58		10152.21	6					
'25/25A S14'		16543.27		10139.15	6					
'25/25A S15'		16517.89		10134.32	6					
'25/25A S16'		16493.07		10129.6	6					
'25/25A S17'		16468.38		10124.91	6					
'25/25A S18'		16443.75		10120.22	6					
'25/25A S19'		16419.14		10115.54	6					
'25/25A S20'		16394.54		10110.86	6					
'25/25A S21'		16369.95		10106.18	6					
'25/25A S22'		16345.37		10101.51	6					
'25/25A S23'		16320.8		10096.83	6					
'25/25A S24'		16296.22		10092.16	6					
'25/25A S25'		16271.65		10087.48	6					
'25/25A NE24'		16858.17		10266.88	6					
'Existing'	29	1	0	'C'						
'25/Wading EB LTR'		'AG'	4564	5039	4443	4951	1	30	3	
80	25	3	455	37.1	1600	1	3			
'25/Wading SB LTR'		'AG'	4586.5	5120	4571.5	5259.5	1	20	2	
80	55	3	248	37.1	1600	1	3			
'25/Wading WB LTR'		'AG'	4635.5	5114	4754.5	5205	1	30	3	
80	25	3	496	37.1	1600	1	3			
'25/Wading NB LTR'		'AG'	4623.5	5024.5	4674.5	4863	1	20	2	
80	55	3	248	37.1	1600	1	3			
'25/Burman EB TR'		'AG'	13587	9534.5	13341.5	9463	1	20	2	
95	35	3	332	37.1	1600	1	3			
'25/Burman NB LR'		'AG'	13656	9491.5	13705	9314	1	20	2	
95	60	3	100	37.1	1600	1	3			
'25/Burman WB LT'		'AG'	13668	9575	13902.5	9643.5	1	20	2	
95	35	3	398	37.1	1600	1	3			
'25/25A EB LT'		'AG'	16490	10154	16275	10116	1	10	1	
95	35	3	319	37.1	1600	1	3			
'25/25A SB LR'		'AG'	16534.5	10214	16407.5	10333.5	1	20	2	
95	60	3	282	37.1	1600	1	3			

										EX_2
'25/25A WB TR'		'AG'	16715.5	10219	16907	10246	1	20	2	
95	35	3	951	37.1	1600	1	3			
'25/Edwards EB LTR'		'AG'	28529	10104.5	28292	10141.5	1	10	1	
90	30	3	648	37.1	1600	1	3			
'25/Edwards SB LTR'		'AG'	28564	10143	28540	10351	1	10	1	
90	60	3	194	37.1	1600	1	3			
'25/Edwards WB LTR'		'AG'	28610.5	10104	28814.5	10071	1	20	2	
90	30	3	752	37.1	1600	1	3			
'25/Edwards NB LTR'		'AG'	28576	10049.5	28591	9913	1	10	1	
90	60	3	312	37.1	1600	1	3			
'Rt25/Wading North'		'AG'	4598.5	5080	4556	5419	542	4.34	1 42	
'Rt25/Wading East'		'AG'	4606	5074.5	4874.5	5276.5	809	4.24	1 66	
'Rt25/Wading South'		'AG'	4601.5	5082.5	4702.5	4746.5	431	4.34	1 42	
'Rt25/Wading West'		'AG'	4599.5	5082.5	4292	4852.5	1112	4.24	1 66	
'25/Burman East'		'AG'	13634	9549.5	14044	9671	775	4.24	1 66	
'25/Burman South'		'AG'	13639	9543.5	13719	9214.5	128	6.78	1 54	
'25/Burman West'		'AG'	13634	9549.5	13219	9440	757	4.24	1 66	
'25/25A North'		'AG'	16548	10195	16330.5	10423.5	815	4.23	1 42	
'25/25A North-RT'		'AG'	16489.5	10169	16472.5	10275.5	30	4.23	1 30	
'25/25A East'		'AG'	16549.5	10187.5	16946	10241.5	1493	4.24	1 54	
'25/25A West'		'AG'	16549.5	10178	16079	10088.5	766	4.24	1 54	
'25/Edwards North'		'AG'	28574	10092.5	28539	10433.5	411	4.34	1 42	
'25/Edwards East'		'AG'	28569.5	10103	28950.5	10039.5	1321	4.24	1 54	
'25/Edwards South'		'AG'	28563.5	10094	28604.5	9727	587	4.34	1 42	
'25/Edwards West'		'AG'	28574	10103	28153.5	10175	1501	4.24	1 54	
1	0	4	1000	0	'Y'	10	0	36		

EX_3
'Calverton' 60 175 0 0 50 0.3048 1 0
'25/Burman N1' 13332.33 9514.37 6
'25/Burman N2' 13356.5 9520.75 6
'25/Burman N3' 13380.68 9527.13 6
'25/Burman N4' 13404.85 9533.51 6
'25/Burman N5' 13429.02 9539.89 6
'25/Burman N6' 13453.19 9546.27 6
'25/Burman N7' 13477.37 9552.64 6
'25/Burman N8' 13501.54 9559.02 6
'25/Burman N9' 13525.71 9565.4 6
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'25/Burman N11' 13574.06 9578.16 6
'25/Burman N12' 13598.23 9584.53 6
'25/Burman N13' 13622.4 9590.91 6
'25/Burman N14' 13646.37 9598.02 6
'25/Burman N15' 13670.34 9605.12 6
'25/Burman N16' 13694.31 9612.22 6
'25/Burman N17' 13718.28 9619.32 6
'25/Burman N18' 13742.25 9626.43 6
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'25/Burman N21' 13814.16 9647.74 6
'25/Burman N22' 13837.93 9655.5 6
'25/Burman N23' 13862.1 9661.94 6
'25/Burman N24' 13886.07 9669.05 6
'25/Burman N25' 13910.04 9676.15 6
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'25/Burman SE2' 13946.66 9597.31 6
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'25/Burman SE20' 13724.34 9349.13 6
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'25/Burman SE23' 13742.06 9276.25 6
'25/Burman SE24' 13747.97 9251.96 6
'25/Burman SE25' 13753.88 9227.66 6
'Existing' 29 1 0 'C'
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80 25 3 455 37.1 1600 1 3
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'25/Wading SB LTR' 'AG' 4586.5 5120 4571.5 5259.5 1 20 2
80 55 3 248 37.1 1600 1 3
2
'25/Wading WB LTR' 'AG' 4635.5 5114 4754.5 5205 1 30 3
80 25 3 496 37.1 1600 1 3
2
'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
80 55 3 248 37.1 1600 1 3
2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 332 37.1 1600 1 3
2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 100 37.1 1600 1 3
2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
95 35 3 398 37.1 1600 1 3
2
'25/25A EB LT' 'AG' 16490 10154 16275 10116 1 10 1
95 35 3 319 37.1 1600 1 3
2
'25/25A SB LR' 'AG' 16534.5 10214 16407.5 10333.5 1 20 2
95 60 3 282 37.1 1600 1 3

EX_3
2
'25/25A WB TR' 'AG' 16715.5 10219 16907 10246 1 20 2
95 35 3 951 37.1 1600 1 3
2
'25/Edwards EB LTR' 'AG' 28529 10104.5 28292 10141.5 1 10 1
90 30 3 648 37.1 1600 1 3
2
'25/Edwards SB LTR' 'AG' 28564 10143 28540 10351 1 10 1
90 60 3 194 37.1 1600 1 3
2
'25/Edwards WB LTR' 'AG' 28610.5 10104 28814.5 10071 1 20 2
90 30 3 752 37.1 1600 1 3
2
'25/Edwards NB LTR' 'AG' 28576 10049.5 28591 9913 1 10 1
90 60 3 312 37.1 1600 1 3
1
'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 542 4.34 1 42
1
'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 809 4.24 1 66
1
'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 431 4.34 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1112 4.24 1 66
1
'25/Burman East' 'AG' 13634 9549.5 14044 9671 775 4.24 1 66
1
'25/Burman South' 'AG' 13639 9543.5 13719 9214.5 128 6.78 1 54
1
'25/Burman West' 'AG' 13634 9549.5 13219 9440 757 4.24 1 66
1
'25/25A North' 'AG' 16548 10195 16330.5 10423.5 815 4.23 1 42
1
'25/25A North-RT' 'AG' 16489.5 10169 16472.5 10275.5 30 4.23 1 30
1
'25/25A East' 'AG' 16549.5 10187.5 16946 10241.5 1493 4.24 1 54
1
'25/25A West' 'AG' 16549.5 10178 16079 10088.5 766 4.24 1 54
1
'25/Edwards North' 'AG' 28574 10092.5 28539 10433.5 411 4.34 1 42
1
'25/Edwards East' 'AG' 28569.5 10103 28950.5 10039.5 1321 4.24 1 54
1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 587 4.34 1 42
1
'25/Edwards West' 'AG' 28574 10103 28153.5 10175 1501 4.24 1 54
1 0 4 1000 0 'Y' 10 0 36

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'Calverton' 60 175 0 0 25 0.3048 1 0 EX_3a
'25/Burman SW1' 13682.59 9207.64 6
'25/Burman SW2' 13676.68 9231.93 6
'25/Burman SW3' 13670.78 9256.22 6
'25/Burman SW4' 13664.87 9280.52 6
'25/Burman SW5' 13658.96 9304.81 6
'25/Burman SW6' 13653.06 9329.1 6
'25/Burman SW7' 13647.15 9353.39 6
'25/Burman SW8' 13641.24 9377.69 6
'25/Burman SW9' 13635.33 9401.98 6
'25/Burman SW10' 13629.43 9426.27 6
'25/Burman SW11' 13623.52 9450.56 6
'25/Burman SW12' 13617.61 9474.85 6
'25/Burman SW13' 13611.71 9499.15 6
'25/Burman SW14' 13587.53 9492.77 6
'25/Burman SW15' 13563.36 9486.39 6
'25/Burman SW16' 13539.19 9480.01 6
'25/Burman SW17' 13515.02 9473.63 6
'25/Burman SW18' 13490.84 9467.26 6
'25/Burman SW19' 13466.67 9460.88 6
'25/Burman SW20' 13442.5 9454.5 6
'25/Burman SW21' 13418.33 9448.12 6
'25/Burman SW22' 13394.15 9441.74 6
'25/Burman SW23' 13369.98 9435.37 6
'25/Burman SW24' 13345.81 9428.99 6
'25/Burman SW25' 13321.63 9422.61 6
'Existing' 29 1 0 'C'
2
'25/Wading EB LTR' 'AG' 4564 5039 4443 4951 1 30 3
80 25 3 455 37.1 1600 1 3
2
'25/Wading SB LTR' 'AG' 4586.5 5120 4571.5 5259.5 1 20 2
80 55 3 248 37.1 1600 1 3
2
'25/Wading WB LTR' 'AG' 4635.5 5114 4754.5 5205 1 30 3
80 25 3 496 37.1 1600 1 3
2
'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
80 55 3 248 37.1 1600 1 3
2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 332 37.1 1600 1 3
2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 100 37.1 1600 1 3
2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
95 35 3 398 37.1 1600 1 3
2
'25/25A EB LT' 'AG' 16490 10154 16275 10116 1 10 1
95 35 3 319 37.1 1600 1 3
2
'25/25A SB LR' 'AG' 16534.5 10214 16407.5 10333.5 1 20 2
95 60 3 282 37.1 1600 1 3
2
'25/25A WB TR' 'AG' 16715.5 10219 16907 10246 1 20 2
95 35 3 951 37.1 1600 1 3
2
'25/Edwards EB LTR' 'AG' 28529 10104.5 28292 10141.5 1 10 1
90 30 3 648 37.1 1600 1 3
2
'25/Edwards SB LTR' 'AG' 28564 10143 28540 10351 1 10 1
90 60 3 194 37.1 1600 1 3
2
'25/Edwards WB LTR' 'AG' 28610.5 10104 28814.5 10071 1 20 2
90 30 3 752 37.1 1600 1 3
2
'25/Edwards NB LTR' 'AG' 28576 10049.5 28591 9913 1 10 1
90 60 3 312 37.1 1600 1 3
1
'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 542 4.34 1 42
1
'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 809 4.24 1 66
1
'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 431 4.34 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1112 4.24 1 66
1
'25/Burman East' 'AG' 13634 9549.5 14044 9671 775 4.24 1 66
```

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EX_3a
1
'25/Burman South' 'AG' 13639 9543.5 13719 9214.5 128 6.78 1 54
1
'25/Burman West ' 'AG' 13634 9549.5 13219 9440 757 4.24 1 66
1
'25/25A North' 'AG' 16548 10195 16330.5 10423.5 815 4.23 1 42
1
'25/25A North-RT' 'AG' 16489.5 10169 16472.5 10275.5 30 4.23 1 30
1
'25/25A East' 'AG' 16549.5 10187.5 16946 10241.5 1493 4.24 1 54
1
'25/25A West' 'AG' 16549.5 10178 16079 10088.5 766 4.24 1 54
1
'25/Edwards North' 'AG' 28574 10092.5 28539 10433.5 411 4.34 1 42
1
'25/Edwards East' 'AG' 28569.5 10103 28950.5 10039.5 1321 4.24 1 54
1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 587 4.34 1 42
1
'25/Edwards West' 'AG' 28574 10103 28153.5 10175 1501 4.24 1 54
1 0 4 1000 0 'Y' 10 0 36
```

										EX_4
'Calverton'	60	175	0	0	50	0.3048	1	0		
'25/Wading NE1'		4584.84		5438.14	6					
'25/Wading NE2'		4587.95		5413.33	6					
'25/Wading NE3'		4591.06		5388.53	6					
'25/Wading NE4'		4594.17		5363.72	6					
'25/Wading NE5'		4597.28		5338.92	6					
'25/Wading NE6'		4600.39		5314.11	6					
'25/Wading NE7'		4603.5		5289.3	6					
'25/Wading NE8'		4606.61		5264.5	6					
'25/Wading NE9'		4609.72		5239.69	6					
'25/Wading NE10'		4612.83		5214.89	6					
'25/Wading NE11'		4615.94		5190.08	6					
'25/Wading NE12'		4619.05		5165.27	6					
'25/Wading NE13'		4622.02		5140.36	6					
'25/Wading NE14'		4642.14		5155.5	6					
'25/Wading NE15'		4662.12		5170.53	6					
'25/Wading NE16'		4682.09		5185.56	6					
'25/Wading NE17'		4702.07		5200.59	6					
'25/Wading NE18'		4722.05		5215.62	6					
'25/Wading NE19'		4742.03		5230.65	6					
'25/Wading NE20'		4762.01		5245.68	6					
'25/Wading NE21'		4781.98		5260.71	6					
'25/Wading NE22'		4801.96		5275.74	6					
'25/Wading NE23'		4821.85		5290.7	6					
'25/Wading NE24'		4841.92		5305.8	6					
'25/Wading NE25'		4861.89		5320.83	6					
'25/Wading SE1'		4883.61		5229.55	6					
'25/Wading SE2'		4863.64		5214.52	6					
'25/Wading SE3'		4843.66		5199.49	6					
'25/Wading SE4'		4823.68		5184.46	6					
'25/Wading SE5'		4803.7		5169.43	6					
'25/Wading SE6'		4783.73		5154.4	6					
'25/Wading SE7'		4763.75		5139.37	6					
'25/Wading SE8'		4743.77		5124.34	6					
'25/Wading SE9'		4723.79		5109.31	6					
'25/Wading SE10'		4703.82		5094.28	6					
'25/Wading SE11'		4683.84		5079.25	6					
'25/Wading SE12'		4663.86		5064.22	6					
'25/Wading SE13'		4643.88		5049.19	6					
'25/Wading SE14'		4651.08		5025.25	6					
'25/Wading SE15'		4658.28		5001.31	6					
'25/Wading SE16'		4665.47		4977.37	6					
'25/Wading SE17'		4672.67		4953.42	6					
'25/Wading SE18'		4679.87		4929.48	6					
'25/Wading SE19'		4687.06		4905.54	6					
'25/Wading SE20'		4694.26		4881.6	6					
'25/Wading SE21'		4701.46		4857.66	6					
'25/Wading SE22'		4708.65		4833.71	6					
'25/Wading SE23'		4715.85		4809.77	6					
'25/Wading SE24'		4723.05		4785.83	6					
'25/Wading SE25'		4730.24		4761.89	6					
'Existing'	29	1	0	'C'						
'25/Wading EB LTR'		'AG'	4564	5039	4443	4951	1	30	3	
80 25 3 455		37.1	1600	1	3					
'25/Wading SB LTR'		'AG'	4586.5	5120	4571.5	5259.5	1	20	2	
80 55 3 248		37.1	1600	1	3					
'25/Wading WB LTR'		'AG'	4635.5	5114	4754.5	5205	1	30	3	
80 25 3 496		37.1	1600	1	3					
'25/Wading NB LTR'		'AG'	4623.5	5024.5	4674.5	4863	1	20	2	
80 55 3 248		37.1	1600	1	3					
'25/Burman EB TR'		'AG'	13587	9534.5	13341.5	9463	1	20	2	
95 35 3 332		37.1	1600	1	3					
'25/Burman NB LR'		'AG'	13656	9491.5	13705	9314	1	20	2	
95 60 3 100		37.1	1600	1	3					
'25/Burman WB LT'		'AG'	13668	9575	13902.5	9643.5	1	20	2	
95 35 3 398		37.1	1600	1	3					
'25/25A EB LT'		'AG'	16490	10154	16275	10116	1	10	1	
95 35 3 319		37.1	1600	1	3					
'25/25A SB LR'		'AG'	16534.5	10214	16407.5	10333.5	1	20	2	
95 60 3 282		37.1	1600	1	3					

										EX_4
'25/25A WB TR'		'AG'	16715.5	10219	16907	10246	1	20	2	
95 35 3 951		37.1	1600	1	3					
'25/Edwards EB LTR'		'AG'	28529	10104.5	28292	10141.5	1	10	1	
90 30 3 648		37.1	1600	1	3					
'25/Edwards SB LTR'		'AG'	28564	10143	28540	10351	1	10	1	
90 60 3 194		37.1	1600	1	3					
'25/Edwards WB LTR'		'AG'	28610.5	10104	28814.5	10071	1	20	2	
90 30 3 752		37.1	1600	1	3					
'25/Edwards NB LTR'		'AG'	28576	10049.5	28591	9913	1	10	1	
90 60 3 312		37.1	1600	1	3					
'Rt25/Wading North'		'AG'	4598.5	5080	4556	5419	542	4.34	1	
1										
'Rt25/Wading East'		'AG'	4606	5074.5	4874.5	5276.5	809	4.24	1	
1										
'Rt25/Wading South'		'AG'	4601.5	5082.5	4702.5	4746.5	431	4.34	1	
1										
'Rt25/Wading West'		'AG'	4599.5	5082.5	4292	4852.5	1112	4.24	1	
1										
'25/Burman East'		'AG'	13634	9549.5	14044	9671	775	4.24	1	
1										
'25/Burman South'		'AG'	13639	9543.5	13719	9214.5	128	6.78	1	
1										
'25/Burman West'		'AG'	13634	9549.5	13219	9440	757	4.24	1	
1										
'25/25A North'		'AG'	16548	10195	16330.5	10423.5	815	4.23	1	
1										
'25/25A North-RT'		'AG'	16489.5	10169	16472.5	10275.5	30	4.23	1	
1										
'25/25A East'		'AG'	16549.5	10187.5	16946	10241.5	1493	4.24	1	
1										
'25/25A West'		'AG'	16549.5	10178	16079	10088.5	766	4.24	1	
1										
'25/Edwards North'		'AG'	28574	10092.5	28539	10433.5	411	4.34	1	
1										
'25/Edwards East'		'AG'	28569.5	10103	28950.5	10039.5	1321	4.24	1	
1										
'25/Edwards South'		'AG'	28563.5	10094	28604.5	9727	587	4.34	1	
1										
'25/Edwards West'		'AG'	28574	10103	28153.5	10175	1501	4.24	1	
1 0 4 1000 0 'Y'			10	0	36					

EX_4a

'Calverton'	60	175	0	0	50	0.3048	1	0	
'25/Wading SW1'		4674.24			4732.81				
'25/Wading SW2'		4667.05			4756.75				
'25/Wading SW3'		4659.85			4780.7				
'25/Wading SW4'		4652.65			4804.64				
'25/Wading SW5'		4645.46			4828.58				
'25/Wading SW6'		4638.26			4852.52				
'25/Wading SW7'		4631.06			4876.46				
'25/Wading SW8'		4624.16			4900.49				
'25/Wading SW9'		4616.67			4924.35				
'25/Wading SW10'		4609.47			4948.29				
'25/Wading SW11'		4602.28			4972.23				
'25/Wading SW12'		4595.08			4996.17				
'25/Wading SW13'		4587.88			5020.11				
'25/Wading SW14'		4567.86			5005.14				
'25/Wading SW15'		4547.84			4990.17				
'25/Wading SW16'		4527.82			4975.19				
'25/Wading SW17'		4507.8			4960.22				
'25/Wading SW18'		4487.79			4945.24				
'25/Wading SW19'		4467.77			4930.27				
'25/Wading SW20'		4447.75			4915.3				
'25/Wading SW21'		4427.73			4900.32				
'25/Wading SW22'		4407.71			4885.35				
'25/Wading SW23'		4387.69			4870.37				
'25/Wading SW24'		4367.67			4855.4				
'25/Wading SW25'		4347.65			4840.43				
'25/Wading NW1'		4323.35			4929.64				
'25/Wading NW2'		4343.37			4944.62				
'25/Wading NW3'		4363.39			4959.59				
'25/Wading NW4'		4383.4			4974.57				
'25/Wading NW5'		4403.42			4989.54				
'25/Wading NW6'		4423.37			5004.46				
'25/Wading NW7'		4443.46			5019.49				
'25/Wading NW8'		4463.48			5034.46				
'25/Wading NW9'		4483.5			5049.43				
'25/Wading NW10'		4503.52			5064.41				
'25/Wading NW11'		4523.54			5079.38				
'25/Wading NW12'		4543.56			5094.36				
'25/Wading NW13'		4563.58			5109.33				
'25/Wading NW14'		4569.47			5134.14				
'25/Wading NW15'		4557.36			5158.94				
'25/Wading NW16'		4554.25			5183.75				
'25/Wading NW17'		4551.14			5208.55				
'25/Wading NW18'		4548.03			5233.36				
'25/Wading NW19'		4544.92			5258.17				
'25/Wading NW20'		4541.81			5282.97				
'25/Wading NW21'		4538.7			5307.78				
'25/Wading NW22'		4535.59			5332.58				
'25/Wading NW23'		4532.48			5357.39				
'25/Wading NW24'		4529.37			5382.19				
'25/Wading NW25'		4526.26			5407				
'Existing'	29	1	0		'C'				
'25/Wading EB LTR'		'AG'	4564	5039	4443	4951	1	30	3
80	25	3	455	37.1	1600	1	3		
'25/Wading SB LTR'		'AG'	4586.5	5120	4571.5	5259.5	1	20	2
80	55	3	248	37.1	1600	1	3		
'25/Wading WB LTR'		'AG'	4635.5	5114	4754.5	5205	1	30	3
80	25	3	496	37.1	1600	1	3		
'25/Wading NB LTR'		'AG'	4623.5	5024.5	4674.5	4863	1	20	2
80	55	3	248	37.1	1600	1	3		
'25/Burman EB TR'		'AG'	13587	9534.5	13341.5	9463	1	20	2
95	35	3	332	37.1	1600	1	3		
'25/Burman NB LR'		'AG'	13656	9491.5	13705	9314	1	20	2
95	60	3	100	37.1	1600	1	3		
'25/Burman WB LT'		'AG'	13668	9575	13902.5	9643.5	1	20	2
95	35	3	398	37.1	1600	1	3		
'25/25A EB LT'		'AG'	16490	10154	16275	10116	1	10	1
95	35	3	319	37.1	1600	1	3		
'25/25A SB LR'		'AG'	16534.5	10214	16407.5	10333.5	1	20	2
95	60	3	282	37.1	1600	1	3		

EX_4a

'25/25A WB TR'	'AG'	16715.5	10219	16907	10246	1	20	2	
95	35	3	951	37.1	1600	1	3		
'25/Edwards EB LTR'	'AG'	28529	10104.5	28292	10141.5	1	10	1	
90	30	3	648	37.1	1600	1	3		
'25/Edwards SB LTR'	'AG'	28564	10143	28540	10351	1	10	1	
90	60	3	194	37.1	1600	1	3		
'25/Edwards WB LTR'	'AG'	28610.5	10104	28814.5	10071	1	20	2	
90	30	3	752	37.1	1600	1	3		
'25/Edwards NB LTR'	'AG'	28576	10049.5	28591	9913	1	10	1	
90	60	3	312	37.1	1600	1	3		
'Rt25/Wading North'	'AG'	4598.5	5080	4556	5419	542	4.34	1	42
'Rt25/Wading East'	'AG'	4606	5074.5	4874.5	5276.5	809	4.24	1	66
'Rt25/Wading South'	'AG'	4601.5	5082.5	4702.5	4746.5	431	4.34	1	42
'Rt25/Wading West'	'AG'	4599.5	5082.5	4292	4852.5	1112	4.24	1	66
'25/Burman East'	'AG'	13634	9549.5	14044	9671	775	4.24	1	66
'25/Burman South'	'AG'	13639	9543.5	13719	9214.5	128	6.78	1	54
'25/Burman West'	'AG'	13634	9549.5	13219	9440	757	4.24	1	66
'25/25A North'	'AG'	16548	10195	16330.5	10423.5	815	4.23	1	42
'25/25A North-RT'	'AG'	16489.5	10169	16472.5	10275.5	30	4.23	1	30
'25/25A East'	'AG'	16549.5	10187.5	16946	10241.5	1493	4.24	1	54
'25/25A West'	'AG'	16549.5	10178	16079	10088.5	766	4.24	1	54
'25/Edwards North'	'AG'	28574	10092.5	28539	10433.5	411	4.34	1	42
'25/Edwards East'	'AG'	28569.5	10103	28950.5	10039.5	1321	4.24	1	54
'25/Edwards South'	'AG'	28563.5	10094	28604.5	9727	587	4.34	1	42
'25/Edwards West'	'AG'	28574	10103	28153.5	10175	1501	4.24	1	54
1	0	4	1000	0	'Y'	10	0	36	

NB_1
'Calverton' 60 175 0 0 50 0.3048 1 0
'25/Edwards NE1' 28579.14 10433.73 6
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1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 711 2.66 1 42
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'25/Edwards West' 'AG' 28574 10103 28153.5 10175 1920 2.62 1 54
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2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
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NB_1a
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2
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'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 672 2.66 1 42
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'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 1147 2.62 1 66
1
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'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1518 2.62 1 66
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'25/25A NE22' 16808.63 10260.13 6
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80 55 3 300 13.4 1600 1 3
2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 452 13.4 1600 1 3
2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
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2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
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2
'25/25A EB LT' 'AG' 16490 10154 16275 10116 1 10 1
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'25/25A SB LR' 'AG' 16534.5 10214 16407.5 10333.5 1 20 2
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NB_2
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'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 1147 2.62 1 66
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'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 581 2.66 1 42
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'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 1518 2.62 1 66
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NB_3

NB_3

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'25/Burman SW6' 13653.06 9329.1 6
'25/Burman SW7' 13647.15 9353.39 6
'25/Burman SW8' 13641.24 9377.69 6
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'25/Burman SW10' 13629.43 9426.27 6
'25/Burman SW11' 13623.52 9450.56 6
'25/Burman SW12' 13617.61 9474.85 6
'25/Burman SW13' 13611.71 9499.15 6
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'25/Burman SW18' 13490.84 9467.26 6
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'25/Burman SW20' 13442.5 9454.5 6
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'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
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'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
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'25/25A NW10' 16395.62 10186.39 6
'25/25A NW11' 16420.18 10191.06 6
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'25/25A NW13' 16469.3 10200.41 6
'25/25A NW14' 16465.36 10225.09 6
'25/25A NW15' 16454.57 10248.19 6
'25/25A NW16' 16436.06 10267.64 6
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'25/25A NW18' 16400.63 10304.86 6
'25/25A NW19' 16383.10 10323.21 6
'25/25A NW20' 16365.76 10341.49 6
'25/25A NW21' 16348.4 10359.73 6
'25/25A NW22' 16331.07 10377.94 6
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'25/Wading SB LTR' 'AG' 4586.5 5120 4571.5 5259.5 1 20 2
80 55 3 420 9.8 1600 1 3
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'25/Wading WB LTR' 'AG' 4635.5 5114 4754.5 5205 1 30 3
80 25 3 2159 9.8 1600 1 3
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'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
80 55 3 417 9.8 1600 1 3
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'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 1153 9.8 1600 1 3
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'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 1478 9.8 1600 1 3
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'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
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'25/25A EB TR' 'AG' 16490 10154 16275 10116 1 10 1
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'25/25A SB TR' 'AG' 16527.81 10204.49 16408.61 10335.13 1 20 2
95 67.7 3 122 9.8 1600 1 3
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'25/25A WB TR' 'AG' 16715.5 10219 16907 10246 1 20 2
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'25/Edwards EB TR' 'AG' 28529 10104.5 28292 10141.5 1 20 2
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'25/Edwards SB TR' 'AG' 28558.32 10158.35 28545.17 10266.67 1 10 1
100 71 3 270 9.8 1600 1 3
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'25/Edwards NB TR' 'AG' 28576 10049.5 28591 9913 1 10 1
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'25/25A EB L' 'AG' 16487.46 10165.99 16270.91 10128.66 1 10 1
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'25/25A SB L' 'AG' 16542.12 10221.57 16423.31 10347.05 1 10 1
100 48.2 3 356 9.8 1600 1 3
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'25/25A WB L' 'AG' 16718.94 10194.17 16907.28 10221.47 1 10 1
100 57.3 3 75 9.8 1600 1 3
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'25/25A NB LL' 'AG' 16563.54 10123.69 16597.85 9960.5 1 20 2
100 70.5 3 379 9.8 1600 1 3
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'25/25A NB TR' 'AG' 16588.96 10128.13 16622 9964.95 1 20 2
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'25/Edwards EB L' 'AG' 28527.81 10121.54 28294.18 10163.61 1 10 1
100 42 3 270 9.8 1600 1 3
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'25/Edwards WB L' 'AG' 28609.36 10084.74 28811.42 10051.08 1 10 1
100 42 3 36 9.8 1600 1 3
2
'25/Edwards SB L' 'AG' 28572.01 10157.82 28562.01 10268.77 1 10 1
100 58 3 43 9.8 1600 1 3
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'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 1218 2.41 1 42
1
'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 2904 2.38 1 66
1
'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 1048 2.41 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 2390 2.38 1 66
1
'25/Burman East' 'AG' 13634 9549.5 14044 9671 2844 2.38 1 66
1
'25/Burman South' 'AG' 13639 9543.5 13719 9214.5 1804 3.66 1 54
1
'25/Burman West ' 'AG' 13634 9549.5 13219 9440 2926 2.38 1 66
1
'25/25A North' 'AG' 16548 10195 16330.5 10423.5 1570 2.40 1 42
1
'25/25A North-RT' 'AG' 16489.5 10169 16472.5 10275.5 84 2.40 1 30
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'25/25A East' 'AG' 16549.5 10187.5 16946 10241.5 3598 2.38 1 54
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'25/25A West' 'AG' 16549.5 10178 16079 10088.5 2831 2.38 1 54
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'25/Edwards North' 'AG' 28574 10092.5 28539 10433.5 823 2.41 1 42
1
'25/Edwards East' 'AG' 28569.5 10103 28950.5 10039.5 2926 2.38 1 54
1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 905 2.41 1 42
1
'25/Edwards West' 'AG' 28574 10103 28153.5 10175 3538 2.38 1 54
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'25/25A South' 'AG' 16554.89 10187.76 16640.5 9806.5 620 3.66 1 78
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'25/Burman N1'		13332.33		9514.37	6									
'25/Burman N2'		13356.5		9520.75	6									
'25/Burman N3'		13380.68		9527.13	6									
'25/Burman N4'		13404.85		9533.51	6									
'25/Burman N5'		13429.02		9539.89	6									
'25/Burman N6'		13453.19		9546.27	6									
'25/Burman N7'		13477.37		9552.64	6									
'25/Burman N8'		13501.54		9559.02	6									
'25/Burman N9'		13525.71		9565.4	6									
'25/Burman N10'		13549.89		9571.78	6									
'25/Burman N11'		13574.06		9578.16	6									
'25/Burman N12'		13598.23		9584.53	6									
'25/Burman N13'		13622.4		9590.91	6									
'25/Burman N14'		13646.37		9598.02	6									
'25/Burman N15'		13670.34		9605.12	6									
'25/Burman N16'		13694.31		9612.22	6									
'25/Burman N17'		13718.28		9619.32	6									
'25/Burman N18'		13742.25		9626.43	6									
'25/Burman N19'		13766.22		9633.53	6									
'25/Burman N20'		13790.19		9640.63	6									
'25/Burman N21'		13814.16		9647.74	6									
'25/Burman N22'		13837.93		9655.5	6									
'25/Burman N23'		13862.1		9661.94	6									
'25/Burman N24'		13886.07		9669.05	6									
'25/Burman N25'		13910.04		9676.15	6									
'25/Burman SE1'		13970.63		9684.41	6									
'25/Burman SE2'		13946.66		9597.31	6									
'25/Burman SE3'		13922.69		9590.2	6									
'25/Burman SE4'		13898.72		9583.1	6									
'25/Burman SE5'		13874.75		9576	6									
'25/Burman SE6'		13850.78		9568.89	6									
'25/Burman SE7'		13826.81		9561.79	6									
'25/Burman SE8'		13802.84		9554.69	6									
'25/Burman SE9'		13778.87		9547.58	6									
'25/Burman SE10'		13754.9		9540.48	6									
'25/Burman SE11'		13730.93		9533.38	6									
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'25/Burman SE13'		13682.99		9519.17	6									
'25/Burman SE14'		13688.9		9494.88	6									
'25/Burman SE15'		13694.81		9470.59	6									
'25/Burman SE16'		13700.71		9446.29	6									
'25/Burman SE17'		13706.62		9422	6									
'25/Burman SE18'		13712.53		9397.71	6									
'25/Burman SE19'		13718.44		9373.42	6									
'25/Burman SE20'		13724.34		9349.13	6									
'25/Burman SE21'		13730.25		9324.83	6									
'25/Burman SE22'		13736.16		9300.54	6									
'25/Burman SE23'		13742.06		9276.25	6									
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'25/Burman SE25'		13753.88		9227.66	6									
'Build'	39	1	0	'C'										
'25/Wading EB LTR'		'AG'	4564	5039	4443	4951	1	30	3					
80	25	3	784	9.8	1600	1	3							
'25/Wading SB LTR'		'AG'	4586.5	5120	4571.5	5259.5	1	20	2					
80	55	3	420	9.8	1600	1	3							
'25/Wading WB LTR'		'AG'	4635.5	5114	4754.5	5205	1	30	3					
80	25	3	2159	9.8	1600	1	3							
'25/Wading NB LTR'		'AG'	4623.5	5024.5	4674.5	4863	1	20	2					
80	55	3	417	9.8	1600	1	3							
'25/Burman EB TR'		'AG'	13587	9534.5	13341.5	9463	1	20	2					
95	35	3	1153	9.8	1600	1	3							
'25/Burman NB LR'		'AG'	13656	9491.5	13705	9314	1	20	2					
95	60	3	1478	9.8	1600	1	3							
'25/Burman WB LT'		'AG'	13668	9575	13902.5	9643.5	1	20	2					
95	35	3	1156	9.8	1600	1	3							
'25/25A EB TR'		'AG'	16490	10154	16275	10116	1	10	1					
95	61.3	3	1362	9.8	1600	1	3							
'25/25A SB TR'		'AG'	16527.81	10204.49	16408.61	10335.13	1	20	2					
95	67.7	3	122	9.8	1600	1	3							

													BD_3	
'25/25A WB TR'		'AG'	16715.5	10219	16907	10246	1	20	2					
95	61.8	3	1501	9.8	1600	1	3							
'25/Edwards EB TR'		'AG'	28529	10104.5	28292	10141.5	1	20	2					
100	52	3	1828	9.8	1600	1	3							
'25/Edwards SB TR'		'AG'	28558.32	10158.35	28545.17	10266.67	1	10	1					
100	71	3	270	9.8	1600	1	3							
'25/Edwards WB TTR'		'AG'	28610.5	10104	28814.5	10071	1	20	2					
100	52	3	1202	9.8	1600	1	3							
'25/Edwards NB TR'		'AG'	28576	10049.5	28591	9913	1	10	1					
100	72	3	213	9.8	1600	1	3							
'25/25A EB L'		'AG'	16487.46	10165.99	16270.91	10128.66	1	10	1					
100	57.3	3	246	9.8	1600	1	3							
'25/25A SB L'		'AG'	16542.12	10221.57	16423.31	10347.05	1	10	1					
100	48.2	3	356	9.8	1600	1	3							
'25/25A WB L'		'AG'	16718.94	10194.17	16907.28	10221.47	1	10	1					
100	57.3	3	75	9.8	1600	1	3							
'25/25A NB LL'		'AG'	16563.54	10123.69	16597.85	9960.5	1	20	2					
100	70.5	3	379	9.8	1600	1	3							
'25/25A NB TR'		'AG'	16588.96	10128.13	16622	9964.95	1	20	2					
100	73.5	3	568	9.8	1600	1	3							
'25/Edwards NB L'		'AG'	28562.76	10048.14	28574.68	9913.75	1	10	1					
100	59	3	234	9.8	1600	1	3							
'25/Edwards EB L'		'AG'	28527.81	10121.54	28294.18	10163.61	1	10	1					
100	42	3	270	9.8	1600	1	3							
'25/Edwards WB L'		'AG'	28609.36	10084.74	28811.42	10051.08	1	10	1					
100	42	3	36	9.8	1600	1	3							
'25/Edwards SB L'		'AG'	28572.01	10157.82	28562.01	10268.77	1	10	1					
100	58	3	43	9.8	1600	1	3							
'Rt25/Wading North'		'AG'	4598.5	5080	4556	5419	1218	2.41	1	42				
'Rt25/Wading East'		'AG'	4606	5074.5	4874.5	5276.5	2904	2.38	1	66				
'Rt25/Wading South'		'AG'	4601.5	5082.5	4702.5	4746.5	1048	2.41	1	42				
'Rt25/Wading West'		'AG'	4599.5	5082.5	4292	4852.5	2390	2.38	1	66				
'25/Burman East'		'AG'	13634	9549.5	14044	9671	2844	2.38	1	66				
'25/Burman South'		'AG'	13639	9543.5	13719	9214.5	1804	3.66	1	54				
'25/Burman West'		'AG'	13634	9549.5	13219	9440	2926	2.38	1	66				
'25/25A North'		'AG'	16548	10195	16330.5	10423.5	1570	2.40	1	42				
'25/25A North-RT'		'AG'	16489.5	10169	16472.5	10275.5	84	2.40	1	30				
'25/25A East'		'AG'	16549.5	10187.5	16946	10241.5	3598	2.38	1	54				
'25/25A West'		'AG'	16549.5	10178	16079	10088.5	2831	2.38	1	54				
'25/Edwards North'		'AG'	28574	10092.5	28539	10433.5	823	2.41	1	42				
'25/Edwards East'		'AG'	28569.5	10103	28950.5	10039.5	2926	2.38	1	54				
'25/Edwards South'		'AG'	28563.5	10094	28604.5	9727	905	2.41	1	42				
'25/Edwards West'		'AG'	28574	10103	28153.5	10175	3538	2.38	1	54				
'25/25A South'		'AG'	16554.89	10187.76	16640.5	9806.5	620	3.66	1	78				
1	0	4	1000	0	'Y'	10	0	36						

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'25/Burman SW1' 13682.59 9207.64 6
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'25/Burman SW3' 13670.78 9256.22 6
'25/Burman SW4' 13664.87 9280.52 6
'25/Burman SW5' 13658.96 9304.81 6
'25/Burman SW6' 13653.06 9329.1 6
'25/Burman SW7' 13647.15 9353.39 6
'25/Burman SW8' 13641.24 9377.69 6
'25/Burman SW9' 13635.33 9401.98 6
'25/Burman SW10' 13629.43 9426.27 6
'25/Burman SW11' 13623.52 9450.56 6
'25/Burman SW12' 13617.61 9474.85 6
'25/Burman SW13' 13611.71 9499.15 6
'25/Burman SW14' 13587.53 9492.77 6
'25/Burman SW15' 13563.36 9486.39 6
'25/Burman SW16' 13539.19 9480.01 6
'25/Burman SW17' 13515.02 9473.63 6
'25/Burman SW18' 13490.84 9467.26 6
'25/Burman SW19' 13466.67 9460.88 6
'25/Burman SW20' 13442.5 9454.5 6
'25/Burman SW21' 13418.33 9448.12 6
'25/Burman SW22' 13394.15 9441.74 6
'25/Burman SW23' 13369.98 9435.37 6
'25/Burman SW24' 13345.81 9428.99 6
'25/Burman SW25' 13321.63 9422.61 6
'Build' 39 1 0 'C'
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'25/Wading EB LTR' 'AG' 4564 5039 4443 4951 1 30 3
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'25/Wading SB LTR' 'AG' 4586.5 5120 4571.5 5259.5 1 20 2
80 55 3 420 9.8 1600 1 3
2
'25/Wading WB LTR' 'AG' 4635.5 5114 4754.5 5205 1 30 3
80 25 3 2159 9.8 1600 1 3
2
'25/Wading NB LTR' 'AG' 4623.5 5024.5 4674.5 4863 1 20 2
80 55 3 417 9.8 1600 1 3
2
'25/Burman EB TR' 'AG' 13587 9534.5 13341.5 9463 1 20 2
95 35 3 1153 9.8 1600 1 3
2
'25/Burman NB LR' 'AG' 13656 9491.5 13705 9314 1 20 2
95 60 3 1478 9.8 1600 1 3
2
'25/Burman WB LT' 'AG' 13668 9575 13902.5 9643.5 1 20 2
95 35 3 1156 9.8 1600 1 3
2
'25/25A EB TR' 'AG' 16490 10154 16275 10116 1 10 1
95 61.3 3 1362 9.8 1600 1 3
2
'25/25A SB TR' 'AG' 16527.81 10204.49 16408.61 10335.13 1 20 2
95 67.7 3 122 9.8 1600 1 3
2
'25/25A WB TR' 'AG' 16715.5 10219 16907 10246 1 20 2
95 61.8 3 1501 9.8 1600 1 3
2
'25/Edwards EB TR' 'AG' 28529 10104.5 28292 10141.5 1 20 2
100 52 3 1828 9.8 1600 1 3
2
'25/Edwards SB TR' 'AG' 28558.32 10158.35 28545.17 10266.67 1 10 1
100 71 3 270 9.8 1600 1 3
2
'25/Edwards WB TTR' 'AG' 28610.5 10104 28814.5 10071 1 20 2
100 52 3 1202 9.8 1600 1 3
2
'25/Edwards NB TR' 'AG' 28576 10049.5 28591 9913 1 10 1
100 72 3 213 9.8 1600 1 3
2
'25/25A EB L' 'AG' 16487.46 10165.99 16270.91 10128.66 1 10 1
100 57.3 3 246 9.8 1600 1 3
2
'25/25A SB L' 'AG' 16542.12 10221.57 16423.31 10347.05 1 10 1
100 48.2 3 356 9.8 1600 1 3
2
'25/25A WB L' 'AG' 16718.94 10194.17 16907.28 10221.47 1 10 1
100 57.3 3 75 9.8 1600 1 3
2
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BD_3a
'25/25A NB LL' 'AG' 16563.54 10123.69 16597.85 9960.5 1 20 2
100 70.5 3 379 9.8 1600 1 3
2
'25/25A NB TR' 'AG' 16588.96 10128.13 16622 9964.95 1 20 2
100 73.5 3 568 9.8 1600 1 3
2
'25/Edwards NB L' 'AG' 28562.76 10048.14 28574.68 9913.75 1 10 1
100 59 3 234 9.8 1600 1 3
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'25/Edwards EB L' 'AG' 28527.81 10121.54 28294.18 10163.61 1 10 1
100 42 3 270 9.8 1600 1 3
2
'25/Edwards WB L' 'AG' 28609.36 10084.74 28811.42 10051.08 1 10 1
100 42 3 36 9.8 1600 1 3
2
'25/Edwards SB L' 'AG' 28572.01 10157.82 28562.01 10268.77 1 10 1
100 58 3 43 9.8 1600 1 3
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'Rt25/Wading North' 'AG' 4598.5 5080 4556 5419 1218 2.41 1 42
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'Rt25/Wading East' 'AG' 4606 5074.5 4874.5 5276.5 2904 2.38 1 66
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'Rt25/Wading South' 'AG' 4601.5 5082.5 4702.5 4746.5 1048 2.41 1 42
1
'Rt25/Wading West' 'AG' 4599.5 5082.5 4292 4852.5 2390 2.38 1 66
1
'25/Burman East' 'AG' 13634 9549.5 14044 9671 2844 2.38 1 66
1
'25/Burman South' 'AG' 13639 9543.5 13719 9214.5 1804 3.66 1 54
1
'25/Burman West' 'AG' 13634 9549.5 13219 9440 2926 2.38 1 66
1
'25/25A North' 'AG' 16548 10195 16330.5 10423.5 1570 2.40 1 42
1
'25/25A North-RT' 'AG' 16489.5 10169 16472.5 10275.5 84 2.40 1 30
1
'25/25A East' 'AG' 16549.5 10187.5 16946 10241.5 3598 2.38 1 54
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'25/25A West' 'AG' 16549.5 10178 16079 10088.5 2831 2.38 1 54
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'25/Edwards North' 'AG' 28574 10092.5 28539 10433.5 823 2.41 1 42
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'25/Edwards East' 'AG' 28569.5 10103 28950.5 10039.5 2926 2.38 1 54
1
'25/Edwards South' 'AG' 28563.5 10094 28604.5 9727 905 2.41 1 42
1
'25/Edwards West' 'AG' 28574 10103 28153.5 10175 3538 2.38 1 54
1
'25/25A South' 'AG' 16554.89 10187.76 16640.5 9806.5 620 3.66 1 78
1 0 4 1000 0 'Y' 10 0 36
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													BD_4	
'Calverton'	60	175	0	0	50	0.3048	1	0						
'25/Wading NE1'		4584.84		5438.14	6									
'25/Wading NE2'		4587.95		5413.33	6									
'25/Wading NE3'		4591.06		5388.53	6									
'25/Wading NE4'		4594.17		5363.72	6									
'25/Wading NE5'		4597.28		5338.92	6									
'25/Wading NE6'		4600.39		5314.11	6									
'25/Wading NE7'		4603.5		5289.3	6									
'25/Wading NE8'		4606.61		5264.5	6									
'25/Wading NE9'		4609.72		5239.69	6									
'25/Wading NE10'		4612.83		5214.89	6									
'25/Wading NE11'		4615.94		5190.08	6									
'25/Wading NE12'		4619.05		5165.27	6									
'25/Wading NE13'		4622.02		5140.36	6									
'25/Wading NE14'		4642.14		5155.5	6									
'25/Wading NE15'		4662.12		5170.53	6									
'25/Wading NE16'		4682.09		5185.56	6									
'25/Wading NE17'		4702.07		5200.59	6									
'25/Wading NE18'		4722.05		5215.62	6									
'25/Wading NE19'		4742.03		5230.65	6									
'25/Wading NE20'		4762.01		5245.68	6									
'25/Wading NE21'		4781.98		5260.71	6									
'25/Wading NE22'		4801.96		5275.74	6									
'25/Wading NE23'		4821.85		5290.7	6									
'25/Wading NE24'		4841.92		5305.8	6									
'25/Wading NE25'		4861.89		5320.83	6									
'25/Wading SE1'		4883.61		5229.55	6									
'25/Wading SE2'		4863.64		5214.52	6									
'25/Wading SE3'		4843.66		5199.49	6									
'25/Wading SE4'		4823.68		5184.46	6									
'25/Wading SE5'		4803.7		5169.43	6									
'25/Wading SE6'		4783.73		5154.4	6									
'25/Wading SE7'		4763.75		5139.37	6									
'25/Wading SE8'		4743.77		5124.34	6									
'25/Wading SE9'		4723.79		5109.31	6									
'25/Wading SE10'		4703.82		5094.28	6									
'25/Wading SE11'		4683.84		5079.25	6									
'25/Wading SE12'		4663.86		5064.22	6									
'25/Wading SE13'		4643.88		5049.19	6									
'25/Wading SE14'		4651.08		5025.25	6									
'25/Wading SE15'		4658.28		5001.31	6									
'25/Wading SE16'		4665.47		4977.37	6									
'25/Wading SE17'		4672.67		4953.42	6									
'25/Wading SE18'		4679.87		4929.48	6									
'25/Wading SE19'		4687.06		4905.54	6									
'25/Wading SE20'		4694.26		4881.6	6									
'25/Wading SE21'		4701.46		4857.66	6									
'25/Wading SE22'		4708.65		4833.71	6									
'25/Wading SE23'		4715.85		4809.77	6									
'25/Wading SE24'		4723.05		4785.83	6									
'25/Wading SE25'		4730.24		4761.89	6									
'Build'	39	1	0	'C'										
'25/Wading EB LTR'		'AG'	4564	5039	4443	4951	1	30	3					
80	25	3	784	9.8	1600	1	3							
'25/Wading SB LTR'		'AG'	4586.5	5120	4571.5	5259.5	1	20	2					
80	55	3	420	9.8	1600	1	3							
'25/Wading WB LTR'		'AG'	4635.5	5114	4754.5	5205	1	30	3					
80	25	3	2159	9.8	1600	1	3							
'25/Wading NB LTR'		'AG'	4623.5	5024.5	4674.5	4863	1	20	2					
80	55	3	417	9.8	1600	1	3							
'25/Burman EB TR'		'AG'	13587	9534.5	13341.5	9463	1	20	2					
95	35	3	1153	9.8	1600	1	3							
'25/Burman NB LR'		'AG'	13656	9491.5	13705	9314	1	20	2					
95	60	3	1478	9.8	1600	1	3							
'25/Burman WB LT'		'AG'	13668	9575	13902.5	9643.5	1	20	2					
95	35	3	1156	9.8	1600	1	3							
'25/25A EB TR'		'AG'	16490	10154	16275	10116	1	10	1					
95	61.3	3	1362	9.8	1600	1	3							
'25/25A SB TR'		'AG'	16527.81	10204.49	16408.61	10335.13	1	20	2					
95	67.7	3	122	9.8	1600	1	3							

													BD_4	
'25/25A WB TR'		'AG'	16715.5	10219	16907	10246	1	20	2					
95	61.8	3	1501	9.8	1600	1	3							
'25/Edwards EB TR'		'AG'	28529	10104.5	28292	10141.5	1	20	2					
100	52	3	1828	9.8	1600	1	3							
'25/Edwards SB TR'		'AG'	28558.32	10150.35	28545.17	10266.67	1	10	1					
100	71	3	270	9.8	1600	1	3							
'25/Edwards WB TTR'		'AG'	28610.5	10104	28814.5	10071	1	20	2					
100	52	3	1202	9.8	1600	1	3							
'25/Edwards NB TR'		'AG'	28576	10049.5	28591	9913	1	10	1					
100	72	3	213	9.8	1600	1	3							
'25/25A EB L'		'AG'	16487.46	10165.99	16270.91	10128.66	1	10	1					
100	57.3	3	246	9.8	1600	1	3							
'25/25A SB L'		'AG'	16542.12	10221.57	16423.31	10347.05	1	10	1					
100	48.2	3	356	9.8	1600	1	3							
'25/25A WB L'		'AG'	16718.94	10194.17	16907.28	10221.47	1	10	1					
100	57.3	3	75	9.8	1600	1	3							
'25/25A NB LL'		'AG'	16563.54	10123.69	16597.85	9960.5	1	20	2					
100	70.5	3	379	9.8	1600	1	3							
'25/25A NB TR'		'AG'	16588.96	10128.13	16622	9964.95	1	20	2					
100	73.5	3	568	9.8	1600	1	3							
'25/Edwards NB L'		'AG'	28562.76	10048.14	28574.68	9913.75	1	10	1					
100	59	3	234	9.8	1600	1	3							
'25/Edwards EB L'		'AG'	28527.81	10121.54	28294.18	10163.61	1	10	1					
100	42	3	270	9.8	1600	1	3							
'25/Edwards WB L'		'AG'	28609.36	10084.74	28811.42	10051.08	1	10	1					
100	42	3	36	9.8	1600	1	3							
'25/Edwards SB L'		'AG'	28572.01	10157.82	28562.01	10268.77	1	10	1					
100	58	3	43	9.8	1600	1	3							
'Rt25/Wading North'		'AG'	4598.5	5080	4556	5419	1218	2.41	1	42				
'Rt25/Wading East'		'AG'	4606	5074.5	4874.5	5276.5	2904	2.38	1	66				
'Rt25/Wading South'		'AG'	4601.5	5082.5	4702.5	4746.5	1048	2.41	1	42				
'Rt25/Wading West'		'AG'	4599.5	5082.5	4292	4852.5	2390	2.38	1	66				
'25/Burman East'		'AG'	13634	9549.5	14044	9671	2844	2.38	1	66				
'25/Burman South'		'AG'	13639	9543.5	13719	9214.5	1804	3.66	1	54				
'25/Burman West'		'AG'	13634	9549.5	13219	9440	2926	2.38	1	66				
'25/25A North'		'AG'	16548	10195	16330.5	10423.5	1570	2.40	1	42				
'25/25A North-RT'		'AG'	16489.5	10169	16472.5	10275.5	84	2.40	1	30				
'25/25A East'		'AG'	16549.5	10187.5	16946	10241.5	3598	2.38	1	54				
'25/25A West'		'AG'	16549.5	10178	16079	10088.5	2831	2.38	1	54				
'25/Edwards North'		'AG'	28574	10092.5	28539	10433.5	823	2.41	1	42				
'25/Edwards East'		'AG'	28569.5	10103	28950.5	10039.5	2926	2.38	1	54				
'25/Edwards South'		'AG'	28563.5	10094	28604.5	9727	905	2.41	1	42				
'25/Edwards West'		'AG'	28574	10103	28153.5	10175	3538	2.38	1	54				
'25/25A South'		'AG'	16554.89	10187.76	16640.5	9806.5	620	3.66	1	78				
1	0	4	1000	0	'Y'	10	0	36						

[illegible]

													BD_4a				
2	25/25A		WB	TR	'	AG'	16715.5	10219	16907	10246	1	20	2				
95	61.8	3				1501	9.8	1600	1	3							
2	25/Edwards		EB	TR	'	AG'	28529	10104.5	28292	10141.5	1	20	2				
100	52	3	1828			9.8	1600	1	3								
2	25/Edwards		SB	TR	'	AG'	28558.32	10158.35	28545.17	10266.67	1	10	1				
100	71	3	270			9.8	1600	1	3								
2	25/Edwards		WB	TTR	'	AG'	28610.5	10104	28814.5	10071	1	20	2				
100	52	3	1202			9.8	1600	1	3								
2	25/Edwards		NB	TR	'	AG'	28576	10049.5	28591	9913	1	10	1				
100	72	3	213			9.8	1600	1	3								
2	25/25A		EB	L	'	AG'	16487.46	10165.99	16270.91	10128.66	1	10	1				
100	57.3	3	246			9.8	1600	1	3								
2	25/25A		SB	L	'	AG'	16542.12	10221.57	16423.31	10347.05	1	10	1				
100	48.2	3	356			9.8	1600	1	3								
2	25/25A		WB	L	'	AG'	16718.94	10194.17	16907.28	10221.47	1	10	1				
100	57.3	3	75			9.8	1600	1	3								
2	25/25A		NB	LL	'	AG'	16563.54	10123.69	16597.85	9960.5	1	20	2				
100	70.5	3	379			9.8	1600	1	3								
2	25/25A		NB	TR	'	AG'	16588.96	10128.13	16622	9964.95	1	20	2				
100	73.5	3	568			9.8	1600	1	3								
2	25/Edwards		NB	L	'	AG'	28562.76	10048.14	28574.68	9913.75	1	10	1				
100	59	3	234			9.8	1600	1	3								
2	25/Edwards		EB	L	'	AG'	28527.81	10121.54	28294.18	10163.61	1	10	1				
100	42	3	270			9.8	1600	1	3								
2	25/Edwards		WB	L	'	AG'	28609.36	10084.74	28811.42	10051.08	1	10	1				
100	42	3	36			9.8	1600	1	3								
2	25/Edwards		SB	L	'	AG'	28572.01	10157.82	28562.01	10268.77	1	10	1				
100	58	3	43			9.8	1600	1	3								
1	Rt25/Wading North		'	AG'		4598.5	5080	4556	5419	1218	2.41	1	42				
1	Rt25/Wading East		'	AG'		4606	5074.5	4874.5	5276.5	2904	2.38	1	66				
1	Rt25/Wading South		'	AG'		4601.5	5082.5	4702.5	4746.5	1048	2.41	1	42				
1	Rt25/Wading West		'	AG'		4599.5	5082.5	4292	4852.5	2390	2.38	1	66				
1	25/Burman East		'	AG'		13634	9549.5	14044	9671	2844	2.38	1	66				
1	25/Burman South		'	AG'		13639	9543.5	13719	9214.5	1804	3.66	1	54				
1	25/Burman West		'	AG'		13634	9549.5	13219	9440	2926	2.38	1	66				
1	25/25A North		'	AG'		16548	10195	16330.5	10423.5	1570	2.40	1	42				
1	25/25A North-RT		'	AG'		16489.5	10169	16472.5	10275.5	84	2.40	1	30				
1	25/25A East		'	AG'		16549.5	10187.5	16946	10241.5	3598	2.38	1	54				
1	25/25A West		'	AG'		16549.5	10178	16079	10088.5	2831	2.38	1	54				
1	25/Edwards North		'	AG'		28574	10092.5	28539	10433.5	823	2.41	1	42				
1	25/Edwards East		'	AG'		28569.5	10103	28950.5	10039.5	2926	2.38	1	54				
1	25/Edwards South		'	AG'		28563.5	10094	28604.5	9727	905	2.41	1	42				
1	25/Edwards West		'	AG'		28574	10103	28153.5	10175	3538	2.38	1	54				
1	25/25A South		'	AG'		16554.89	10187.76	16640.5	9806.5	620	3.66	1	78				
1	0	4	1000	0	'Y'	10	0	36									



Engineering, Surveying and Landscape Architecture, P.C.

Attachment B

Description

Microscale Output Files

EX_1
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:32
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_1
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 6:32
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
* X Y Z *
1. 25/Edwards NE1 * 28570.1 10433.7 6.0 *
2. 25/Edwards NE2 * 28572.7 10408.9 6.0 *
3. 25/Edwards NE3 * 28575.2 10384.0 6.0 *
4. 25/Edwards NE4 * 28577.8 10359.1 6.0 *
5. 25/Edwards NE5 * 28580.4 10334.3 6.0 *
6. 25/Edwards NE6 * 28582.9 10309.4 6.0 *
7. 25/Edwards NE7 * 28585.4 10284.5 6.0 *
8. 25/Edwards NE8 * 28588.0 10259.7 6.0 *
9. 25/Edwards NE9 * 28590.6 10234.6 6.0 *
10. 25/Edwards NE10 * 28593.1 10209.6 6.0 *
11. 25/Edwards NE11 * 28595.7 10185.0 6.0 *
12. 25/Edwards NE12 * 28598.3 10160.0 6.0 *
13. 25/Edwards NE13 * 28600.8 10135.3 6.0 *
14. 25/Edwards NE14 * 28625.3 10131.3 6.0 *
15. 25/Edwards NE15 * 28650.0 10127.1 6.0 *
16. 25/Edwards NE16 * 28674.6 10122.9 6.0 *
17. 25/Edwards NE17 * 28699.3 10118.8 6.0 *
18. 25/Edwards NE18 * 28723.9 10114.8 6.0 *
19. 25/Edwards NE19 * 28748.5 10110.7 6.0 *
20. 25/Edwards NE20 * 28773.2 10106.6 6.0 *
21. 25/Edwards NE21 * 28798.0 10102.4 6.0 *
22. 25/Edwards NE22 * 28822.7 10098.3 6.0 *
23. 25/Edwards NE23 * 28847.4 10094.2 6.0 *
24. 25/Edwards NE24 * 28871.8 10090.1 6.0 *

25. 25/Edwards NE25 * 28896.7 10086.0 6.0 *
26. 25/Edwards SE1 * 28894.3 10011.4 6.0 *
27. 25/Edwards SE2 * 28869.7 10015.5 6.0 *
28. 25/Edwards SE3 * 28845.0 10019.6 6.0 *
29. 25/Edwards SE4 * 28820.3 10023.7 6.0 *
30. 25/Edwards SE5 * 28795.7 10027.8 6.0 *
31. 25/Edwards SE6 * 28771.0 10031.9 6.0 *

PAGE 3
JOB: Calverton RUN: Existing

DATE : 4/21/14
TIME : 13: 6:32

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
32. 25/Edwards SE7	28746.4	10036.0	6.0
33. 25/Edwards SE8	28721.7	10040.1	6.0
34. 25/Edwards SE9	28697.1	10044.2	6.0
35. 25/Edwards SE10	28672.4	10048.3	6.0
36. 25/Edwards SE11	28647.7	10052.5	6.0
37. 25/Edwards SE12	28623.1	10056.6	6.0
38. 25/Edwards SE13	28598.4	10060.7	6.0
39. 25/Edwards SE14	28601.2	10035.8	6.0
40. 25/Edwards SE15	28604.0	10011.0	6.0
41. 25/Edwards SE16	28606.7	9986.2	6.0
42. 25/Edwards SE17	28609.5	9961.3	6.0
43. 25/Edwards SE18	28612.3	9936.4	6.0
44. 25/Edwards SE19	28615.1	9911.6	6.0
45. 25/Edwards SE20	28617.9	9886.8	6.0
46. 25/Edwards SE21	28620.6	9861.9	6.0
47. 25/Edwards SE22	28623.4	9837.1	6.0
48. 25/Edwards SE23	28626.2	9812.2	6.0
49. 25/Edwards SE24	28628.9	9787.6	6.0
50. 25/Edwards SE25	28631.7	9762.8	6.0

PAGE 4
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EX_1

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX	*	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
DEGR.	*	180	180	180	220	210	200	200	200	200	200	200	220	260	190	160	190	220	260

PAGE 5
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

EX_1a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:38
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_1a
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 6:38
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
* X Y Z *
1. 25/Edwards SW1 * 28568.1 9774.0 6.0 *
2. 25/Edwards SW2 * 28565.3 9798.9 6.0 *
3. 25/Edwards SW3 * 28562.5 9823.7 6.0 *
4. 25/Edwards SW4 * 28559.7 9848.6 6.0 *
5. 25/Edwards SW5 * 28556.9 9873.4 6.0 *
6. 25/Edwards SW6 * 28554.2 9898.3 6.0 *
7. 25/Edwards SW7 * 28551.4 9923.1 6.0 *
8. 25/Edwards SW8 * 28548.6 9948.0 6.0 *
9. 25/Edwards SW9 * 28545.9 9972.8 6.0 *
10. 25/Edwards SW10 * 28543.1 9997.7 6.0 *
11. 25/Edwards SW11 * 28540.3 10022.5 6.0 *
12. 25/Edwards SW12 * 28537.5 10047.3 6.0 *
13. 25/Edwards SW13 * 28534.7 10072.2 6.0 *
14. 25/Edwards SW14 * 28510.1 10076.4 6.0 *
15. 25/Edwards SW15 * 28485.5 10080.6 6.0 *
16. 25/Edwards SW16 * 28460.8 10084.8 6.0 *
17. 25/Edwards SW17 * 28436.2 10089.1 6.0 *
18. 25/Edwards SW18 * 28411.5 10093.3 6.0 *
19. 25/Edwards SW19 * 28386.9 10097.5 6.0 *
20. 25/Edwards SW20 * 28362.2 10101.7 6.0 *
21. 25/Edwards SW21 * 28337.6 10105.9 6.0 *
22. 25/Edwards SW22 * 28313.0 10110.2 6.0 *
23. 25/Edwards SW23 * 28288.3 10114.4 6.0 *
24. 25/Edwards SW24 * 28263.7 10118.7 6.0 *

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JOB: Calverton

RUN: Existing

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PAGE 4
JOB: Calverton

RUN: Existing

WIND ANGLE RANGE: 0.-360.

Page 3

[illegible]

9

JOB: Calverton

RUN: Existing

WTND ANGLE RANGE: 0.-360.

Page 4

EX_2
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:50
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_2
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:50
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
X Y Z *
1. 25/25A NE1 * 16354.1 10443.7 6.0 *
2. 25/25A NE2 * 16371.3 10425.0 6.0 *
3. 25/25A NE3 * 16388.6 10407.5 6.0 *
4. 25/25A NE4 * 16405.8 10389.4 6.0 *
5. 25/25A NE5 * 16423.0 10371.3 6.0 *
6. 25/25A NE6 * 16440.3 10353.2 6.0 *
7. 25/25A NE7 * 16457.5 10335.0 6.0 *
8. 25/25A NE8 * 16474.7 10316.9 6.0 *
9. 25/25A NE9 * 16492.0 10298.8 6.0 *
10. 25/25A NE10 * 16509.2 10280.7 6.0 *
11. 25/25A NE11 * 16526.4 10262.6 6.0 *
12. 25/25A NE12 * 16543.7 10244.5 6.0 *
13. 25/25A NE13 * 16560.9 10226.4 6.0 *
14. 25/25A NE14 * 16585.7 10229.8 6.0 *
15. 25/25A NE15 * 16610.5 10233.1 6.0 *
16. 25/25A NE16 * 16635.2 10236.5 6.0 *
17. 25/25A NE17 * 16660.0 10239.9 6.0 *
18. 25/25A NE18 * 16684.8 10243.3 6.0 *
19. 25/25A NE19 * 16709.5 10246.6 6.0 *
20. 25/25A NE20 * 16759.1 10253.4 6.0 *
21. 25/25A NE21 * 16783.9 10256.8 6.0 *
22. 25/25A NE22 * 16808.6 10260.1 6.0 *
23. 25/25A NE23 * 16833.4 10263.5 6.0 *
24. 25/25A NE25 * 16882.9 10270.3 6.0 *

EX_2a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:45
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_2a
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:45
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
X Y Z *
1. 25/25A NW1 * 16174.6 10144.3 6.0 *
2. 25/25A NW2 * 16199.1 10149.0 6.0 *
3. 25/25A NW3 * 16223.7 10153.7 6.0 *
4. 25/25A NW4 * 16248.3 10158.4 6.0 *
5. 25/25A NW5 * 16272.8 10163.0 6.0 *
6. 25/25A NW6 * 16297.4 10167.7 6.0 *
7. 25/25A NW7 * 16321.9 10172.4 6.0 *
8. 25/25A NW8 * 16346.5 10177.1 6.0 *
9. 25/25A NW9 * 16371.1 10181.7 6.0 *
10. 25/25A NW10 * 16395.6 10186.4 6.0 *
11. 25/25A NW11 * 16420.2 10191.1 6.0 *
12. 25/25A NW12 * 16444.7 10195.7 6.0 *
13. 25/25A NW13 * 16469.3 10200.4 6.0 *
14. 25/25A NW14 * 16465.4 10225.1 6.0 *
15. 25/25A NW15 * 16454.6 10248.2 6.0 *
16. 25/25A NW16 * 16436.1 10267.6 6.0 *
17. 25/25A NW17 * 16418.2 10286.4 6.0 *
18. 25/25A NW18 * 16400.6 10304.9 6.0 *
19. 25/25A NW19 * 16383.2 10323.2 6.0 *
20. 25/25A NW20 * 16365.8 10341.5 6.0 *
21. 25/25A NW21 * 16348.4 10359.7 6.0 *
22. 25/25A NW22 * 16331.1 10377.9 6.0 *
23. 25/25A NW23 * 16313.8 10396.1 6.0 *
24. 25/25A NW24 * 16296.5 10414.3 6.0 *

Page 3

Page 4

EX_2a

340.	*	0.1	0.0	0.0	0.0	0.1
350.	*	0.1	0.0	0.0	0.0	0.1
360.	*	0.1	0.1	0.0	0.0	0.1
-----*						
MAX	*	0.2	0.1	0.1	0.1	0.4
DEGR.	*	110	0	40	80	90

THE HIGHEST CONCENTRATION OF 0.40 PPM OCCURRED AT RECEPTOR REC14.

EX_3
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:57
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_3
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 0:57
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
* X Y Z *
1. 25/Burman N1 * 13332.3 9514.4 6.0 *
2. 25/Burman N2 * 13356.5 9520.7 6.0 *
3. 25/Burman N3 * 13380.7 9527.1 6.0 *
4. 25/Burman N4 * 13404.8 9533.5 6.0 *
5. 25/Burman N5 * 13429.0 9539.9 6.0 *
6. 25/Burman N6 * 13453.2 9546.3 6.0 *
7. 25/Burman N7 * 13477.4 9552.6 6.0 *
8. 25/Burman N8 * 13501.5 9559.0 6.0 *
9. 25/Burman N9 * 13525.7 9565.4 6.0 *
10. 25/Burman N10 * 13549.9 9571.8 6.0 *
11. 25/Burman N11 * 13574.1 9578.2 6.0 *
12. 25/Burman N12 * 13598.2 9584.5 6.0 *
13. 25/Burman N13 * 13622.4 9590.9 6.0 *
14. 25/Burman N14 * 13646.4 9598.0 6.0 *
15. 25/Burman N15 * 13670.3 9605.1 6.0 *
16. 25/Burman N16 * 13694.3 9612.2 6.0 *
17. 25/Burman N17 * 13718.3 9619.3 6.0 *
18. 25/Burman N18 * 13742.2 9626.4 6.0 *
19. 25/Burman N19 * 13766.2 9633.5 6.0 *
20. 25/Burman N20 * 13790.2 9640.6 6.0 *
21. 25/Burman N21 * 13814.2 9647.7 6.0 *
22. 25/Burman N22 * 13837.9 9655.5 6.0 *
23. 25/Burman N23 * 13862.1 9661.9 6.0 *
24. 25/Burman N24 * 13886.1 9669.1 6.0 *
Page 2

25. 25/Burman N25 * 13910.0 9676.2 6.0 *
26. 25/Burman SE1 * 13970.6 9694.4 6.0 *
27. 25/Burman SE2 * 13946.7 9597.3 6.0 *
28. 25/Burman SE3 * 13922.7 9590.2 6.0 *
29. 25/Burman SE4 * 13898.7 9583.1 6.0 *
30. 25/Burman SE5 * 13874.8 9576.0 6.0 *
31. 25/Burman SE6 * 13850.8 9568.9 6.0 *

PAGE 3
JOB: Calverton RUN: Existing

DATE : 4/21/14
TIME : 13: 6:57

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
32. 25/Burman SE7	13826.8	9561.8	6.0
33. 25/Burman SE8	13802.8	9554.7	6.0
34. 25/Burman SE9	13778.9	9547.6	6.0
35. 25/Burman SE10	13754.9	9540.5	6.0
36. 25/Burman SE11	13739.9	9533.4	6.0
37. 25/Burman SE12	13707.0	9526.3	6.0
38. 25/Burman SE13	13683.0	9519.2	6.0
39. 25/Burman SE14	13688.9	9494.9	6.0
40. 25/Burman SE15	13694.8	9470.6	6.0
41. 25/Burman SE16	13700.7	9446.3	6.0
42. 25/Burman SE17	13706.6	9422.0	6.0
43. 25/Burman SE18	13712.5	9397.7	6.0
44. 25/Burman SE19	13718.4	9373.4	6.0
45. 25/Burman SE20	13724.3	9349.1	6.0
46. 25/Burman SE21	13730.3	9324.8	6.0
47. 25/Burman SE22	13736.2	9300.5	6.0
48. 25/Burman SE23	13742.1	9276.3	6.0
49. 25/Burman SE24	13748.0	9252.0	6.0
50. 25/Burman SE25	13753.9	9227.7	6.0

PAGE 4
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

EX_3

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
90.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1
100.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1
110.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1
120.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1
130.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1
140.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1
150.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
160.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
170.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
180.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
190.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
200.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
210.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
220.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
230.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
240.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
DEGR.	*	80	80	80	80	80	80	80	80	80	90	90	100	110	90	90	90	140	190

PAGE 5
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

EX_3a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 7: 2
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4547.3 5026.9 * 21. 234. AG 93. 100.0
1.0 30.0 0.15 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4582.5 5157.1 * 37. 354. AG 137. 100.0
1.0 20.0 0.31 1.9
3. 25/Wading WB LTR * 4635.5 5114.0 4653.4 5127.7 * 23. 53. AG 93. 100.0
1.0 30.0 0.17 1.1
4. 25/Wading NB LTR * 4623.5 5024.5 4634.7 4988.9 * 37. 162. AG 137. 100.0
1.0 20.0 0.31 1.9
5. 25/Burman EB TR * 13587.0 9534.5 13556.5 9525.6 * 32. 254. AG 73. 100.0
1.0 20.0 0.18 1.6
6. 25/Burman NB LR * 13656.0 9491.5 13660.4 9475.7 * 16. 165. AG 126. 100.0
1.0 20.0 0.10 0.8
7. 25/Burman WB LT * 13668.0 9575.0 13704.6 9585.7 * 38. 74. AG 73. 100.0
1.0 20.0 0.21 1.9
8. 25/25A EB LT * 16490.0 10154.0 16429.9 10143.4 * 61. 260. AG 37. 100.0
1.0 10.0 0.34 3.1
9. 25/25A SB LR * 16534.5 10214.0 16500.8 10245.7 * 46. 313. AG 126. 100.0
1.0 20.0 0.28 2.3
10. 25/25A WB TR * 16715.5 10219.0 16805.5 10231.7 * 91. 82. AG 73. 100.0
1.0 20.0 0.51 4.6
11. 25/Edwards EB LTR * 28529.0 10104.5 28424.0 10120.9 * 106. 279. AG 33. 100.0
1.0 10.0 0.66 5.4
12. 25/Edwards SB LTR * 28564.0 10143.0 28556.7 10206.2 * 64. 353. AG 66. 100.0
1.0 10.0 0.44 3.2
13. 25/Edwards WB LTR * 28610.5 10104.0 28671.4 10094.2 * 62. 99. AG 66. 100.0
1.0 20.0 0.38 3.1
14. 25/Edwards NB LTR * 28576.0 10049.5 28587.2 9947.3 * 103. 174. AG 66. 100.0
1.0 10.0 0.70 5.2
15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 542. 4.3
1.0 42.0
16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 809. 4.2
1.0 66.0
17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 431. 4.3
1.0 42.0
18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1112. 4.2
1.0 66.0
19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 775. 4.2
1.0 66.0
20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 128. 6.8
1.0 54.0
21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 757. 4.2
1.0 66.0
22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 815. 4.2
1.0 42.0
23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 30. 4.2
1.0 30.0
24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1493. 4.2
1.0 54.0
25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 766. 4.2
1.0 54.0
26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 411. 4.3
1.0 42.0
27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1321. 4.2
1.0 54.0

EX_3a
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0
PAGE 2
JOB: Calverton
RUN: Existing
DATE : 4/21/14
TIME : 13: 7: 2
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 455 1600 37.10 1
3 2. 25/Wading SB LTR * 80 55 3.0 248 1600 37.10 1
3 3. 25/Wading WB LTR * 80 25 3.0 496 1600 37.10 1
3 4. 25/Wading NB LTR * 80 55 3.0 248 1600 37.10 1
3 5. 25/Burman EB TR * 95 35 3.0 332 1600 37.10 1
3 6. 25/Burman NB LR * 95 60 3.0 100 1600 37.10 1
3 7. 25/Burman WB LT * 95 35 3.0 398 1600 37.10 1
3 8. 25/25A EB LT * 95 35 3.0 319 1600 37.10 1
3 9. 25/25A SB LR * 95 60 3.0 282 1600 37.10 1
3 10. 25/25A WB TR * 95 35 3.0 951 1600 37.10 1
3 11. 25/Edwards EB LTR * 90 30 3.0 648 1600 37.10 1
3 12. 25/Edwards SB LTR * 90 60 3.0 194 1600 37.10 1
3 13. 25/Edwards WB LTR * 90 30 3.0 752 1600 37.10 1
3 14. 25/Edwards NB LTR * 90 60 3.0 312 1600 37.10 1
RECEPTOR LOCATIONS
RECEPTOR * COORDINATES (FT) *
X Y Z *
1. 25/Burman SW1 * 13682.6 9207.6 6.0 *
2. 25/Burman SW2 * 13676.7 9231.9 6.0 *
3. 25/Burman SW3 * 13670.8 9256.2 6.0 *
4. 25/Burman SW4 * 13664.9 9280.5 6.0 *
5. 25/Burman SW5 * 13659.0 9304.8 6.0 *
6. 25/Burman SW6 * 13653.1 9329.1 6.0 *
7. 25/Burman SW7 * 13647.2 9353.4 6.0 *
8. 25/Burman SW8 * 13641.2 9377.7 6.0 *
9. 25/Burman SW9 * 13635.3 9402.0 6.0 *
10. 25/Burman SW10 * 13629.4 9426.3 6.0 *
11. 25/Burman SW11 * 13623.5 9450.6 6.0 *
12. 25/Burman SW12 * 13617.6 9474.8 6.0 *
13. 25/Burman SW13 * 13611.7 9499.2 6.0 *
14. 25/Burman SW14 * 13587.5 9492.8 6.0 *
15. 25/Burman SW15 * 13563.4 9486.4 6.0 *
16. 25/Burman SW16 * 13539.2 9480.0 6.0 *
17. 25/Burman SW17 * 13515.0 9473.6 6.0 *
18. 25/Burman SW18 * 13490.8 9467.3 6.0 *
19. 25/Burman SW19 * 13466.7 9460.9 6.0 *
20. 25/Burman SW20 * 13442.5 9454.5 6.0 *
21. 25/Burman SW21 * 13418.3 9448.1 6.0 *
22. 25/Burman SW22 * 13394.2 9441.7 6.0 *
23. 25/Burman SW23 * 13370.0 9435.4 6.0 *
24. 25/Burman SW24 * 13345.8 9429.0 6.0 *

EX_3a

340.	*	0.1	0.1	0.1	0.1	0.1
350.	*	0.1	0.1	0.1	0.1	0.1
360.	*	0.1	0.1	0.1	0.1	0.1
-----*						
MAX	*	0.1	0.1	0.1	0.1	0.1
DEGR.	*	0	0	0	0	0

THE HIGHEST CONCENTRATION OF 0.20 PPM OCCURRED AT RECEPTOR REC14.

PAGE 1
JOB: Calverton
RUN: Existing

DATE : 4/21/14
TIME : 13: 7: 8

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM

LINK VARIABLES

H	W	V/C QUEUE	*	LINK DESCRIPTION	*	LINK COORDINATES (FT)	*	LENGTH	BRG TYPE	VPH	EF
(G/MI)	(FT)	(FT)	(VEH)			X1 Y1 X2 Y2		(FT)	(DEG)		
1.0	30.0	0.15	1.0	1. 25/Wading EB LTR	*	4564.0 5039.0 4547.3 5026.9	*	21.	234. AG	93.	100.0
1.0	20.0	0.31	1.9	2. 25/Wading SB LTR	*	4586.5 5120.0 4582.5 5157.1	*	37.	354. AG	137.	100.0
1.0	30.0	0.17	1.1	3. 25/Wading WB LTR	*	4635.5 5114.0 4653.4 5127.7	*	23.	53. AG	93.	100.0
1.0	20.0	0.31	1.9	4. 25/Wading NB LTR	*	4623.5 5024.5 4634.7 4988.9	*	37.	162. AG	137.	100.0
1.0	20.0	0.18	1.6	5. 25/Burman EB TR	*	13587.0 9534.5 13556.5 9525.6	*	32.	254. AG	73.	100.0
1.0	20.0	0.10	0.8	6. 25/Burman NB LR	*	13656.0 9491.5 13660.4 9475.7	*	16.	165. AG	126.	100.0
1.0	20.0	0.21	1.9	7. 25/Burman WB LT	*	13668.0 9575.0 13704.6 9585.7	*	38.	74. AG	73.	100.0
1.0	10.0	0.34	3.1	8. 25/25A EB LT	*	16490.0 10154.0 16429.9 10143.4	*	61.	260. AG	37.	100.0
1.0	20.0	0.28	2.3	9. 25/25A SB LR	*	16534.5 10214.0 16500.8 10245.7	*	46.	313. AG	126.	100.0
1.0	20.0	0.51	4.6	10. 25/25A WB TR	*	16715.5 10219.0 16805.5 10231.7	*	91.	82. AG	73.	100.0
1.0	10.0	0.66	5.4	11. 25/Edwards EB LTR	*	28529.0 10104.5 28424.0 10120.9	*	106.	279. AG	33.	100.0
1.0	10.0	0.44	3.2	12. 25/Edwards SB LTR	*	28564.0 10143.0 28556.7 10206.2	*	64.	353. AG	66.	100.0
1.0	20.0	0.38	3.1	13. 25/Edwards WB LTR	*	28610.5 10104.0 28671.4 10094.2	*	62.	99. AG	66.	100.0
1.0	10.0	0.70	5.2	14. 25/Edwards NB LTR	*	28576.0 10049.5 28587.2 9947.3	*	103.	174. AG	66.	100.0
1.0	42.0			15. Rt25/Wading North	*	4598.5 5080.0 4556.0 5419.0	*	342.	353. AG	542.	4.3
1.0	66.0			16. Rt25/Wading East	*	4606.0 5074.5 4874.5 5276.5	*	336.	53. AG	809.	4.2
1.0	42.0			17. Rt25/Wading South	*	4601.5 5082.5 4702.5 4746.5	*	351.	163. AG	431.	4.3
1.0	66.0			18. Rt25/Wading West	*	4599.5 5082.5 4292.0 4852.5	*	384.	233. AG	1112.	4.2
1.0	66.0			19. 25/Burman East	*	13634.0 9549.5 14044.0 9671.0	*	428.	73. AG	775.	4.2
1.0	54.0			20. 25/Burman South	*	13639.0 9543.5 13719.0 9214.5	*	339.	166. AG	128.	6.8
1.0	66.0			21. 25/Burman West	*	13634.0 9549.5 13219.0 9440.0	*	429.	255. AG	757.	4.2
1.0	42.0			22. 25/25A North	*	16548.0 10195.0 16330.5 10423.5	*	315.	316. AG	815.	4.2
1.0	30.0			23. 25/25A North-RT	*	16489.5 10169.0 16472.5 10275.5	*	108.	351. AG	30.	4.2
1.0	54.0			24. 25/25A East	*	16549.5 10187.5 16946.0 10241.5	*	400.	82. AG	1493.	4.2
1.0	54.0			25. 25/25A West	*	16549.5 10178.0 16079.0 10088.5	*	479.	259. AG	766.	4.2
1.0	42.0			26. 25/Edwards North	*	28574.0 10092.5 28539.0 10433.5	*	343.	354. AG	411.	4.3
1.0	54.0			27. 25/Edwards East	*	28569.5 10103.0 28950.5 10039.5	*	386.	99. AG	1321.	4.2

28. 25/Edwards South	*	28563.5	10094.0	28604.5	9727.0 *	369.	174. AG	587.	4.3
29. 25/Edwards West	*	28574.0	10103.0	28153.5	10175.0 *	427.	280. AG	1501.	4.2

PAGE 2
JOB: Calverton
RUN: Existing

DATE : 4/21/14
TIME : 13: 7: 8

ADDITIONAL QUEUE LINK PARAMETERS

ARRIVAL	LINK DESCRIPTION	* CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL
RATE		LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE
		(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)	
3	1. 25/Wading EB LTR	* 80	25	3.0	455	1600	37.10	1
3	2. 25/Wading SB LTR	* 80	55	3.0	248	1600	37.10	1
3	3. 25/Wading WB LTR	* 80	25	3.0	496	1600	37.10	1
3	4. 25/Wading NB LTR	* 80	55	3.0	248	1600	37.10	1
3	5. 25/Burman EB TR	* 95	35	3.0	332	1600	37.10	1
3	6. 25/Burman NB LR	* 95	60	3.0	100	1600	37.10	1
3	7. 25/Burman WB LT	* 95	35	3.0	398	1600	37.10	1
3	8. 25/25A EB LT	* 95	35	3.0	319	1600	37.10	1
3	9. 25/25A SB LR	* 95	60	3.0	282	1600	37.10	1
3	10. 25/25A WB TR	* 95	35	3.0	951	1600	37.10	1
3	11. 25/Edwards EB LTR	* 90	30	3.0	648	1600	37.10	1
3	12. 25/Edwards SB LTR	* 90	60	3.0	194	1600	37.10	1
3	13. 25/Edwards WB LTR	* 90	30	3.0	752	1600	37.10	1
3	14. 25/Edwards NB LTR	* 90	60	3.0	312	1600	37.10	1

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (FT) Y	* Z
1. 25/Wading NE1	*	4584.8 5438.1	6.0 *
2. 25/Wading NE2	*	4588.0 5413.3	6.0 *
3. 25/Wading NE3	*	4591.1 5388.5	6.0 *
4. 25/Wading NE4	*	4594.2 5363.7	6.0 *
5. 25/Wading NE5	*	4597.3 5338.9	6.0 *
6. 25/Wading NE6	*	4600.4 5314.1	6.0 *
7. 25/Wading NE7	*	4603.5 5289.3	6.0 *
8. 25/Wading NE8	*	4606.6 5264.5	6.0 *
9. 25/Wading NE9	*	4609.7 5239.7	6.0 *
10. 25/Wading NE10	*	4612.8 5214.9	6.0 *
11. 25/Wading NE11	*	4615.9 5190.1	6.0 *
12. 25/Wading NE12	*	4619.0 5165.3	6.0 *
13. 25/Wading NE13	*	4622.0 5140.4	6.0 *
14. 25/Wading NE14	*	4642.1 5155.5	6.0 *
15. 25/Wading NE15	*	4662.1 5170.5	6.0 *
16. 25/Wading NE16	*	4682.1 5185.6	6.0 *
17. 25/Wading NE17	*	4702.1 5200.6	6.0 *
18. 25/Wading NE18	*	4722.0 5215.6	6.0 *
19. 25/Wading NE19	*	4742.0 5230.7	6.0 *
20. 25/Wading NE20	*	4762.0 5245.7	6.0 *
21. 25/Wading NE21	*	4782.0 5260.7	6.0 *
22. 25/Wading NE22	*	4802.0 5275.7	6.0 *
23. 25/Wading NE23	*	4821.9 5290.7	6.0 *
24. 25/Wading NE24	*	4841.9 5305.8	6.0 *

25. 25/Wading NE25 * 4861.9 5320.8 6.0 *
26. 25/Wading SE1 * 4883.6 5229.5 6.0 *
27. 25/Wading SE2 * 4863.6 5214.5 6.0 *
28. 25/Wading SE3 * 4843.7 5199.5 6.0 *
29. 25/Wading SE4 * 4823.7 5184.5 6.0 *
30. 25/Wading SE5 * 4803.7 5169.4 6.0 *
31. 25/Wading SE6 * 4783.7 5154.4 6.0 *

PAGE 3
JOB: Calverton RUN: Existing

DATE : 4/21/14
TIME : 13: 7: 8

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
32. 25/Wading SE7	4763.7	5139.4	6.0
33. 25/Wading SE8	4743.8	5124.3	6.0
34. 25/Wading SE9	4723.8	5109.3	6.0
35. 25/Wading SE10	4703.8	5094.3	6.0
36. 25/Wading SE11	4683.8	5079.3	6.0
37. 25/Wading SE12	4663.9	5064.2	6.0
38. 25/Wading SE13	4643.9	5049.2	6.0
39. 25/Wading SE14	4621.1	5025.2	6.0
40. 25/Wading SE15	4608.3	5001.3	6.0
41. 25/Wading SE16	4585.5	4977.4	6.0
42. 25/Wading SE17	4562.7	4953.4	6.0
43. 25/Wading SE18	4539.9	4929.5	6.0
44. 25/Wading SE19	4517.1	4905.5	6.0
45. 25/Wading SE20	4494.3	4881.6	6.0
46. 25/Wading SE21	4471.5	4857.7	6.0
47. 25/Wading SE22	4448.7	4833.7	6.0
48. 25/Wading SE23	4425.9	4809.8	6.0
49. 25/Wading SE24	4403.0	4785.8	6.0
50. 25/Wading SE25	4380.2	4761.9	6.0

PAGE 4
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EX_4

0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.2
DEGR.	*	180	180	180	180	180	180	180	200	190	200	200	210	220	120	210	210	210	210

PAGE 5
JOB: Calverton RUN: Existing

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

EX_4a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton RUN: Existing

DATE : 4/21/14
TIME : 13: 7:13

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM

LINK VARIABLES

H	W	V/C QUEUE	*	LINK DESCRIPTION	*	LINK COORDINATES (FT)	*	LENGTH	BRG TYPE	VPH	EF
(G/MI)	(FT)	(FT)	(VEH)			X1 Y1 X2 Y2		(FT)	(DEG)		
1.0	30.0	0.15	1.0	1. 25/Wading EB LTR	*	4564.0 5039.0 4547.3 5026.9	*	21.	234. AG	93.	100.0
1.0	20.0	0.31	1.9	2. 25/Wading SB LTR	*	4586.5 5120.0 4582.5 5157.1	*	37.	354. AG	137.	100.0
1.0	30.0	0.17	1.1	3. 25/Wading WB LTR	*	4635.5 5114.0 4653.4 5127.7	*	23.	53. AG	93.	100.0
1.0	20.0	0.31	1.9	4. 25/Wading NB LTR	*	4623.5 5024.5 4634.7 4988.9	*	37.	162. AG	137.	100.0
1.0	20.0	0.18	1.6	5. 25/Burman EB TR	*	13587.0 9534.5 13556.5 9525.6	*	32.	254. AG	73.	100.0
1.0	20.0	0.10	0.8	6. 25/Burman NB LR	*	13656.0 9491.5 13660.4 9475.7	*	16.	165. AG	126.	100.0
1.0	20.0	0.21	1.9	7. 25/Burman WB LT	*	13668.0 9575.0 13704.6 9585.7	*	38.	74. AG	73.	100.0
1.0	10.0	0.34	3.1	8. 25/25A EB LT	*	16490.0 10154.0 16429.9 10143.4	*	61.	260. AG	37.	100.0
1.0	20.0	0.28	2.3	9. 25/25A SB LR	*	16534.5 10214.0 16500.8 10245.7	*	46.	313. AG	126.	100.0
1.0	20.0	0.51	4.6	10. 25/25A WB TR	*	16715.5 10219.0 16805.5 10231.7	*	91.	82. AG	73.	100.0
1.0	10.0	0.66	5.4	11. 25/Edwards EB LTR	*	28529.0 10104.5 28424.0 10120.9	*	106.	279. AG	33.	100.0
1.0	10.0	0.44	3.2	12. 25/Edwards SB LTR	*	28564.0 10143.0 28556.7 10206.2	*	64.	353. AG	66.	100.0
1.0	20.0	0.38	3.1	13. 25/Edwards WB LTR	*	28610.5 10104.0 28671.4 10094.2	*	62.	99. AG	66.	100.0
1.0	10.0	0.70	5.2	14. 25/Edwards NB LTR	*	28576.0 10049.5 28587.2 9947.3	*	103.	174. AG	66.	100.0
1.0	42.0			15. Rt25/Wading North	*	4598.5 5080.0 4556.0 5419.0	*	342.	353. AG	542.	4.3
1.0	66.0			16. Rt25/Wading East	*	4606.0 5074.5 4874.5 5276.5	*	336.	53. AG	809.	4.2
1.0	42.0			17. Rt25/Wading South	*	4601.5 5082.5 4702.5 4746.5	*	351.	163. AG	431.	4.3
1.0	66.0			18. Rt25/Wading West	*	4599.5 5082.5 4292.0 4852.5	*	384.	233. AG	1112.	4.2
1.0	66.0			19. 25/Burman East	*	13634.0 9549.5 14044.0 9671.0	*	428.	73. AG	775.	4.2
1.0	54.0			20. 25/Burman South	*	13639.0 9543.5 13719.0 9214.5	*	339.	166. AG	128.	6.8
1.0	66.0			21. 25/Burman West	*	13634.0 9549.5 13219.0 9440.0	*	429.	255. AG	757.	4.2
1.0	42.0			22. 25/25A North	*	16548.0 10195.0 16330.5 10423.5	*	315.	316. AG	815.	4.2
1.0	30.0			23. 25/25A North-RT	*	16489.5 10169.0 16472.5 10275.5	*	108.	351. AG	30.	4.2
1.0	54.0			24. 25/25A East	*	16549.5 10187.5 16946.0 10241.5	*	400.	82. AG	1493.	4.2
1.0	54.0			25. 25/25A West	*	16549.5 10178.0 16079.0 10088.5	*	479.	259. AG	766.	4.2
1.0	42.0			26. 25/Edwards North	*	28574.0 10092.5 28539.0 10433.5	*	343.	354. AG	411.	4.3
1.0	54.0			27. 25/Edwards East	*	28569.5 10103.0 28950.5 10039.5	*	386.	99. AG	1321.	4.2

EX_4a
28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 587. 4.3
1.0 42.0
29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1501. 4.2
1.0 54.0

PAGE 2
JOB: Calverton RUN: Existing

DATE : 4/21/14
TIME : 13: 7:13

ADDITIONAL QUEUE LINK PARAMETERS

ARRIVAL	LINK DESCRIPTION	* CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL
RATE		* LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE
		(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)	
3	1. 25/Wading EB LTR	* 80	25	3.0	455	1600	37.10	1
3	2. 25/Wading SB LTR	* 80	55	3.0	248	1600	37.10	1
3	3. 25/Wading WB LTR	* 80	25	3.0	496	1600	37.10	1
3	4. 25/Wading NB LTR	* 80	55	3.0	248	1600	37.10	1
3	5. 25/Burman EB TR	* 95	35	3.0	332	1600	37.10	1
3	6. 25/Burman NB LR	* 95	60	3.0	100	1600	37.10	1
3	7. 25/Burman WB LT	* 95	35	3.0	398	1600	37.10	1
3	8. 25/25A EB LT	* 95	35	3.0	319	1600	37.10	1
3	9. 25/25A SB LR	* 95	60	3.0	282	1600	37.10	1
3	10. 25/25A WB TR	* 95	35	3.0	951	1600	37.10	1
3	11. 25/Edwards EB LTR	* 90	30	3.0	648	1600	37.10	1
3	12. 25/Edwards SB LTR	* 90	60	3.0	194	1600	37.10	1
3	13. 25/Edwards WB LTR	* 90	30	3.0	752	1600	37.10	1
3	14. 25/Edwards NB LTR	* 90	60	3.0	312	1600	37.10	1

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (FT)	* Y	* Z
1. 25/Wading SW1	*	4674.2	4732.8	6.0 *
2. 25/Wading SW2	*	4667.1	4756.8	6.0 *
3. 25/Wading SW3	*	4659.9	4780.7	6.0 *
4. 25/Wading SW4	*	4652.6	4804.6	6.0 *
5. 25/Wading SW5	*	4645.5	4828.6	6.0 *
6. 25/Wading SW6	*	4638.3	4852.5	6.0 *
7. 25/Wading SW7	*	4631.1	4876.5	6.0 *
8. 25/Wading SW8	*	4624.2	4900.5	6.0 *
9. 25/Wading SW9	*	4616.7	4924.4	6.0 *
10. 25/Wading SW10	*	4609.5	4948.3	6.0 *
11. 25/Wading SW11	*	4602.3	4972.2	6.0 *
12. 25/Wading SW12	*	4595.1	4996.2	6.0 *
13. 25/Wading SW13	*	4587.9	5020.1	6.0 *
14. 25/Wading SW14	*	4580.7	5044.1	6.0 *
15. 25/Wading SW15	*	4573.5	5068.1	6.0 *
16. 25/Wading SW16	*	4566.3	5092.1	6.0 *
17. 25/Wading SW17	*	4559.1	5116.1	6.0 *
18. 25/Wading SW18	*	4551.9	5140.1	6.0 *
19. 25/Wading SW19	*	4544.7	5164.1	6.0 *
20. 25/Wading SW20	*	4537.5	5188.1	6.0 *
21. 25/Wading SW21	*	4530.3	5212.1	6.0 *
22. 25/Wading SW22	*	4523.1	5236.1	6.0 *
23. 25/Wading SW23	*	4515.9	5260.1	6.0 *
24. 25/Wading SW24	*	4508.7	5284.1	6.0 *

NB_1
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:14:25
 The MODE flag has been set to C for calculating CO averages.
 SITE & METEOROLOGICAL VARIABLES
 VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
 LINK VARIABLES
 LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
 H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
 (G/MI) (FT) (FT) (VEH)
 1. 25/Wading EB LTR * 4564.0 5039.0 4542.2 5023.2 * 27. 234. AG 34. 100.0
 1.0 30.0 0.20 1.4
 2. 25/Wading SB LTR * 4586.5 5120.0 4581.6 5165.2 * 45. 354. AG 49. 100.0
 1.0 20.0 0.38 2.3
 3. 25/Wading WB LTR * 4635.5 5114.0 4662.5 5134.7 * 34. 53. AG 34. 100.0
 1.0 30.0 0.25 1.7
 4. 25/Wading NB LTR * 4623.5 5024.5 4637.1 4981.5 * 45. 162. AG 49. 100.0
 1.0 20.0 0.38 2.3
 5. 25/Burman EB TR * 13587.0 9534.5 13545.5 9522.4 * 43. 254. AG 26. 100.0
 1.0 20.0 0.24 2.2
 6. 25/Burman NB LR * 13656.0 9491.5 13670.1 9440.3 * 53. 165. AG 45. 100.0
 1.0 20.0 0.32 2.7
 7. 25/Burman WB LT * 13668.0 9575.0 13717.2 9589.4 * 51. 74. AG 26. 100.0
 1.0 20.0 0.29 2.6
 8. 25/25A EB LT * 16490.0 10154.0 16383.5 10135.2 * 108. 260. AG 13. 100.0
 1.0 10.0 0.61 5.5
 9. 25/25A SB LR * 16534.5 10214.0 16492.2 10253.8 * 58. 313. AG 45. 100.0
 1.0 20.0 0.35 3.0
 10. 25/25A WB TR * 16715.5 10219.0 16826.7 10234.7 * 112. 82. AG 26. 100.0
 1.0 20.0 0.63 5.7
 11. 25/Edwards EB LTR * 28529.0 10104.5 28369.2 10129.5 * 162. 279. AG 12. 100.0
 1.0 10.0 0.87 8.2
 12. 25/Edwards SB LTR * 28564.0 10143.0 28554.9 10221.5 * 79. 353. AG 24. 100.0
 1.0 10.0 0.54 4.0
 13. 25/Edwards WB LTR * 28610.5 10104.0 28686.3 10091.7 * 77. 99. AG 24. 100.0
 1.0 20.0 0.48 3.9
 14. 25/Edwards NB LTR * 28576.0 10049.5 28591.9 9904.9 * 145. 174. AG 24. 100.0
 1.0 10.0 0.85 7.4
 15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 672. 2.7
 1.0 42.0
 16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 1147. 2.6
 1.0 66.0
 17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 581. 2.7
 1.0 42.0
 18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1518. 2.6
 1.0 66.0
 19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 1026. 2.6
 1.0 66.0
 20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 418. 4.1
 1.0 54.0
 21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 1115. 2.6
 1.0 66.0
 22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1014. 2.6
 1.0 42.0
 23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 41. 2.6
 1.0 30.0
 24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1891. 2.6
 1.0 54.0
 25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 1020. 2.6
 1.0 54.0
 26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 524. 2.7
 1.0 42.0
 27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1656. 2.6
 1.0 54.0

NB_1
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0
 PAGE 2
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:14:25
 ADDITIONAL QUEUE LINK PARAMETERS
 LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
 ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
 RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
 1. 25/Wading EB LTR * 80 25 3.0 593 1600 13.40 1
 3 2. 25/Wading SB LTR * 80 55 3.0 303 1600 13.40 1
 3 3. 25/Wading WB LTR * 80 25 3.0 748 1600 13.40 1
 3 4. 25/Wading NB LTR * 80 55 3.0 300 1600 13.40 1
 3 5. 25/Burman EB TR * 95 35 3.0 452 1600 13.40 1
 3 6. 25/Burman NB LR * 95 60 3.0 324 1600 13.40 1
 3 7. 25/Burman WB LT * 95 35 3.0 536 1600 13.40 1
 3 8. 25/25A EB LT * 95 35 3.0 565 1600 13.40 1
 3 9. 25/25A SB LR * 95 60 3.0 354 1600 13.40 1
 3 10. 25/25A WB TR * 95 35 3.0 1174 1600 13.40 1
 3 11. 25/Edwards EB LTR * 90 30 3.0 851 1600 13.40 1
 3 12. 25/Edwards SB LTR * 90 60 3.0 241 1600 13.40 1
 3 13. 25/Edwards WB LTR * 90 30 3.0 936 1600 13.40 1
 3 14. 25/Edwards NB LTR * 90 60 3.0 377 1600 13.40 1
 RECEPTOR LOCATIONS
 RECEPTOR * COORDINATES (FT) *
 * X Y Z *
 1. 25/Edwards NE1 * 28570.1 10433.7 6.0 *
 2. 25/Edwards NE2 * 28572.7 10408.9 6.0 *
 3. 25/Edwards NE3 * 28575.2 10384.0 6.0 *
 4. 25/Edwards NE4 * 28577.8 10359.1 6.0 *
 5. 25/Edwards NE5 * 28580.4 10334.3 6.0 *
 6. 25/Edwards NE6 * 28582.9 10309.4 6.0 *
 7. 25/Edwards NE7 * 28585.4 10284.5 6.0 *
 8. 25/Edwards NE8 * 28588.0 10259.7 6.0 *
 9. 25/Edwards NE9 * 28590.6 10234.6 6.0 *
 10. 25/Edwards NE10 * 28593.1 10209.6 6.0 *
 11. 25/Edwards NE11 * 28595.7 10185.0 6.0 *
 12. 25/Edwards NE12 * 28598.3 10160.0 6.0 *
 13. 25/Edwards NE13 * 28600.8 10135.3 6.0 *
 14. 25/Edwards NE14 * 28625.3 10131.3 6.0 *
 15. 25/Edwards NE15 * 28650.0 10127.1 6.0 *
 16. 25/Edwards NE16 * 28674.6 10122.9 6.0 *
 17. 25/Edwards NE17 * 28699.3 10118.8 6.0 *
 18. 25/Edwards NE18 * 28723.9 10114.8 6.0 *
 19. 25/Edwards NE19 * 28748.5 10110.7 6.0 *
 20. 25/Edwards NE20 * 28773.2 10106.6 6.0 *
 21. 25/Edwards NE21 * 28798.0 10102.4 6.0 *
 22. 25/Edwards NE22 * 28822.7 10098.3 6.0 *
 23. 25/Edwards NE23 * 28847.4 10094.2 6.0 *
 24. 25/Edwards NE24 * 28871.8 10090.1 6.0 *
 Page 2

25. 25/Edwards NE25 * 28896.7 10086.0 6.0 *
26. 25/Edwards SE1 * 28894.3 10011.4 6.0 *
27. 25/Edwards SE2 * 28869.7 10015.5 6.0 *
28. 25/Edwards SE3 * 28845.0 10019.6 6.0 *
29. 25/Edwards SE4 * 28820.3 10023.7 6.0 *
30. 25/Edwards SE5 * 28795.7 10027.8 6.0 *
31. 25/Edwards SE6 * 28771.0 10031.9 6.0 *

PAGE 3
JOB: Calverton RUN: No-Build

DATE : 4/21/14
TIME : 13:14:25

RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT)			Z	*
		X	Y			
32. 25/Edwards SE7	*	28746.4	10036.0		6.0	*
33. 25/Edwards SE8	*	28721.7	10040.1		6.0	*
34. 25/Edwards SE9	*	28697.1	10044.2		6.0	*
35. 25/Edwards SE10	*	28672.4	10048.3		6.0	*
36. 25/Edwards SE11	*	28647.7	10052.5		6.0	*
37. 25/Edwards SE12	*	28623.1	10056.6		6.0	*
38. 25/Edwards SE13	*	28598.4	10060.7		6.0	*
39. 25/Edwards SE14	*	28601.2	10035.8		6.0	*
40. 25/Edwards SE15	*	28604.0	10011.0		6.0	*
41. 25/Edwards SE16	*	28606.7	9986.2		6.0	*
42. 25/Edwards SE17	*	28609.5	9961.3		6.0	*
43. 25/Edwards SE18	*	28612.3	9936.4		6.0	*
44. 25/Edwards SE19	*	28615.1	9911.6		6.0	*
45. 25/Edwards SE20	*	28617.9	9886.8		6.0	*
46. 25/Edwards SE21	*	28620.6	9861.9		6.0	*
47. 25/Edwards SE22	*	28623.4	9837.1		6.0	*
48. 25/Edwards SE23	*	28626.2	9812.2		6.0	*
49. 25/Edwards SE24	*	28628.9	9787.6		6.0	*
50. 25/Edwards SE25	*	28631.7	9762.8		6.0	*

PAGE 4
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NB_1

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
110.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1
120.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
130.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2
140.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1
150.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
160.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
180.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1
190.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2
200.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2
210.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
220.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.2
DEGR.	*	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	120	120	120

PAGE 5
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

NB 1

NB 1

NB_1a
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build

DATE : 4/21/14
 TIME : 13:14:30

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES
 MIXH = 1000. M AMB = 0.0 PPM

LINK VARIABLES

H	W	V/C QUEUE	*	LINK DESCRIPTION	*	LINK COORDINATES (FT)	*	LENGTH	BRG TYPE	VPH	EF
(G/MI)	(FT)	(FT)	(VEH)			X1 Y1 X2 Y2		(FT)	(DEG)		
1.0	30.0	0.20	1.4	1. 25/Wading EB LTR	*	4564.0 5039.0 4542.2 5023.2	*	27.	234. AG	34.	100.0
1.0	20.0	0.38	2.3	2. 25/Wading SB LTR	*	4586.5 5120.0 4581.6 5165.2	*	45.	354. AG	49.	100.0
1.0	30.0	0.25	1.7	3. 25/Wading WB LTR	*	4635.5 5114.0 4662.5 5134.7	*	34.	53. AG	34.	100.0
1.0	20.0	0.38	2.3	4. 25/Wading NB LTR	*	4623.5 5024.5 4637.1 4981.5	*	45.	162. AG	49.	100.0
1.0	20.0	0.24	2.2	5. 25/Burman EB TR	*	13587.0 9534.5 13545.5 9522.4	*	43.	254. AG	26.	100.0
1.0	20.0	0.32	2.7	6. 25/Burman NB LR	*	13656.0 9491.5 13670.1 9440.3	*	53.	165. AG	45.	100.0
1.0	20.0	0.29	2.6	7. 25/Burman WB LT	*	13668.0 9575.0 13717.2 9589.4	*	51.	74. AG	26.	100.0
1.0	10.0	0.61	5.5	8. 25/25A EB LT	*	16490.0 10154.0 16383.5 10135.2	*	108.	260. AG	13.	100.0
1.0	20.0	0.35	3.0	9. 25/25A SB LR	*	16534.5 10214.0 16492.2 10253.8	*	58.	313. AG	45.	100.0
1.0	20.0	0.63	5.7	10. 25/25A WB TR	*	16715.5 10219.0 16826.7 10234.7	*	112.	82. AG	26.	100.0
1.0	10.0	0.87	8.2	11. 25/Edwards EB LTR	*	28529.0 10104.5 28369.2 10129.5	*	162.	279. AG	12.	100.0
1.0	10.0	0.54	4.0	12. 25/Edwards SB LTR	*	28564.0 10143.0 28554.9 10221.5	*	79.	353. AG	24.	100.0
1.0	20.0	0.48	3.9	13. 25/Edwards WB LTR	*	28610.5 10104.0 28686.3 10091.7	*	77.	99. AG	24.	100.0
1.0	10.0	0.85	7.4	14. 25/Edwards NB LTR	*	28576.0 10049.5 28591.9 9904.9	*	145.	174. AG	24.	100.0
1.0	42.0			15. Rt25/Wading North	*	4598.5 5080.0 4556.0 5419.0	*	342.	353. AG	672.	2.7
1.0	66.0			16. Rt25/Wading East	*	4606.0 5074.5 4874.5 5276.5	*	336.	53. AG	1147.	2.6
1.0	42.0			17. Rt25/Wading South	*	4601.5 5082.5 4702.5 4746.5	*	351.	163. AG	581.	2.7
1.0	66.0			18. Rt25/Wading West	*	4599.5 5082.5 4292.0 4852.5	*	384.	233. AG	1518.	2.6
1.0	54.0			19. 25/Burman East	*	13634.0 9549.5 14044.0 9671.0	*	428.	73. AG	1026.	2.6
1.0	66.0			20. 25/Burman South	*	13639.0 9543.5 13719.0 9214.5	*	339.	166. AG	418.	4.1
1.0	66.0			21. 25/Burman West	*	13634.0 9549.5 13219.0 9440.0	*	429.	255. AG	1115.	2.6
1.0	42.0			22. 25/25A North	*	16548.0 10195.0 16330.5 10423.5	*	315.	316. AG	1014.	2.6
1.0	30.0			23. 25/25A North-RT	*	16489.5 10169.0 16472.5 10275.5	*	108.	351. AG	41.	2.6
1.0	54.0			24. 25/25A East	*	16549.5 10187.5 16946.0 10241.5	*	400.	82. AG	1891.	2.6
1.0	54.0			25. 25/25A West	*	16549.5 10178.0 16079.0 10088.5	*	479.	259. AG	1020.	2.6
1.0	42.0			26. 25/Edwards North	*	28574.0 10092.5 28539.0 10433.5	*	343.	354. AG	524.	2.7
1.0	54.0			27. 25/Edwards East	*	28569.5 10103.0 28950.5 10039.5	*	386.	99. AG	1656.	2.6

NB_1a
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0

PAGE 2
 JOB: Calverton
 RUN: No-Build

DATE : 4/21/14
 TIME : 13:14:30

ADDITIONAL QUEUE LINK PARAMETERS

ARRIVAL	LINK DESCRIPTION	* CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL
RATE		LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE
		(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)	
3	1. 25/Wading EB LTR	* 80	25	3.0	593	1600	13.40	1
3	2. 25/Wading SB LTR	* 80	55	3.0	303	1600	13.40	1
3	3. 25/Wading WB LTR	* 80	25	3.0	748	1600	13.40	1
3	4. 25/Wading NB LTR	* 80	55	3.0	300	1600	13.40	1
3	5. 25/Burman EB TR	* 95	35	3.0	452	1600	13.40	1
3	6. 25/Burman NB LR	* 95	60	3.0	324	1600	13.40	1
3	7. 25/Burman WB LT	* 95	35	3.0	536	1600	13.40	1
3	8. 25/25A EB LT	* 95	35	3.0	565	1600	13.40	1
3	9. 25/25A SB LR	* 95	60	3.0	354	1600	13.40	1
3	10. 25/25A WB TR	* 95	35	3.0	1174	1600	13.40	1
3	11. 25/Edwards EB LTR	* 90	30	3.0	851	1600	13.40	1
3	12. 25/Edwards SB LTR	* 90	60	3.0	241	1600	13.40	1
3	13. 25/Edwards WB LTR	* 90	30	3.0	936	1600	13.40	1
3	14. 25/Edwards NB LTR	* 90	60	3.0	377	1600	13.40	1

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (FT)	* Y	* Z
1. 25/Edwards SW1	* 28568.1	9774.0	6.0	*
2. 25/Edwards SW2	* 28565.3	9798.9	6.0	*
3. 25/Edwards SW3	* 28562.5	9823.7	6.0	*
4. 25/Edwards SW4	* 28559.7	9848.6	6.0	*
5. 25/Edwards SW5	* 28556.9	9873.4	6.0	*
6. 25/Edwards SW6	* 28554.2	9898.3	6.0	*
7. 25/Edwards SW7	* 28551.4	9923.1	6.0	*
8. 25/Edwards SW8	* 28548.6	9948.0	6.0	*
9. 25/Edwards SW9	* 28545.9	9972.8	6.0	*
10. 25/Edwards SW10	* 28543.1	9997.7	6.0	*
11. 25/Edwards SW11	* 28540.3	10022.5	6.0	*
12. 25/Edwards SW12	* 28537.5	10047.3	6.0	*
13. 25/Edwards SW13	* 28534.7	10072.2	6.0	*
14. 25/Edwards SW14	* 28531.9	10097.0	6.0	*
15. 25/Edwards SW15	* 28485.5	10080.6	6.0	*
16. 25/Edwards SW16	* 28460.8	10084.8	6.0	*
17. 25/Edwards SW17	* 28436.2	10089.1	6.0	*
18. 25/Edwards SW18	* 28411.5	10093.3	6.0	*
19. 25/Edwards SW19	* 28386.9	10097.5	6.0	*
20. 25/Edwards SW20	* 28362.2	10101.7	6.0	*
21. 25/Edwards SW21	* 28337.6	10105.9	6.0	*
22. 25/Edwards SW22	* 28313.0	10110.2	6.0	*
23. 25/Edwards SW23	* 28288.3	10114.4	6.0	*
24. 25/Edwards SW24	* 28263.7	10118.7	6.0	*

NB_1a			
25. 25/Edwards SW25	*	28239.1	10122.8
26. 25/Edwards NW1	*	28241.6	10197.5
27. 25/Edwards NW2	*	28266.2	10193.2
28. 25/Edwards NW3	*	28290.8	10189.0
29. 25/Edwards NW4	*	28315.5	10184.8
30. 25/Edwards NW5	*	28340.1	10180.6
31. 25/Edwards NW6	*	28364.8	10176.4

PAGE 3
JOB: Calverton RUN: No-Build

DATE : 4/21/14
TIME : 13:14:30

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
32. 25/Edwards NW7	28389.4	10172.1	6.0
33. 25/Edwards NW8	28414.1	10167.9	6.0
34. 25/Edwards NW9	28438.7	10163.7	6.0
35. 25/Edwards NW10	28463.3	10159.5	6.0
36. 25/Edwards NW11	28488.0	10155.3	6.0
37. 25/Edwards NW12	28512.6	10151.1	6.0
38. 25/Edwards NW13	28537.3	10146.8	6.0
39. 25/Edwards NW14	28564.7	10141.7	6.0
40. 25/Edwards NW15	28592.2	10136.6	6.0
41. 25/Edwards NW16	28620.5	10131.5	6.0
42. 25/Edwards NW17	28648.8	10126.4	6.0
43. 25/Edwards NW18	28677.1	10121.3	6.0
44. 25/Edwards NW19	28705.4	10116.2	6.0
45. 25/Edwards NW20	28733.7	10111.1	6.0
46. 25/Edwards NW21	28762.0	10106.0	6.0
47. 25/Edwards NW22	28790.3	10100.9	6.0
48. 25/Edwards NW23	28818.6	10095.8	6.0
49. 25/Edwards NW24	28846.9	10090.7	6.0
50. 25/Edwards NW25	28875.2	10085.6	6.0

PAGE 4
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
20.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
30.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
40.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
50.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
60.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
70.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
80.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1

NB_1a

0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
90.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
110.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
120.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
130.	*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
140.	*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
150.	*	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
160.	*	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
180.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
290.	*	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
300.	*	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
360.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1

MAX	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
DEGR.	*	0	0	0	0	0	0	0	10	10	50	40	30	30	70	50	70	50

PAGE 5
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

NB_2
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:14:36
 The MODE flag has been set to C for calculating CO averages.
 SITE & METEOROLOGICAL VARIABLES
 VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
 LINK VARIABLES
 LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
 H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
 (G/MI) (FT) (FT) (VEH)
 1. 25/Wading EB LTR * 4564.0 5039.0 4542.2 5023.2 * 27. 234. AG 34. 100.0
 1.0 30.0 0.20 1.4
 2. 25/Wading SB LTR * 4586.5 5120.0 4581.6 5165.2 * 45. 354. AG 49. 100.0
 1.0 20.0 0.38 2.3
 3. 25/Wading WB LTR * 4635.5 5114.0 4662.5 5134.7 * 34. 53. AG 34. 100.0
 1.0 30.0 0.25 1.7
 4. 25/Wading NB LTR * 4623.5 5024.5 4637.1 4981.5 * 45. 162. AG 49. 100.0
 1.0 20.0 0.38 2.3
 5. 25/Burman EB TR * 13587.0 9534.5 13545.5 9522.4 * 43. 254. AG 26. 100.0
 1.0 20.0 0.24 2.2
 6. 25/Burman NB LR * 13656.0 9491.5 13670.1 9440.3 * 53. 165. AG 45. 100.0
 1.0 20.0 0.32 2.7
 7. 25/Burman WB LT * 13668.0 9575.0 13717.2 9589.4 * 51. 74. AG 26. 100.0
 1.0 20.0 0.29 2.6
 8. 25/25A EB LT * 16490.0 10154.0 16383.5 10135.2 * 108. 260. AG 13. 100.0
 1.0 10.0 0.61 5.5
 9. 25/25A SB LR * 16534.5 10214.0 16492.2 10253.8 * 58. 313. AG 45. 100.0
 1.0 20.0 0.35 3.0
 10. 25/25A WB TR * 16715.5 10219.0 16826.7 10234.7 * 112. 82. AG 26. 100.0
 1.0 20.0 0.63 5.7
 11. 25/Edwards EB LTR * 28529.0 10104.5 28369.2 10129.5 * 162. 279. AG 12. 100.0
 1.0 10.0 0.87 8.2
 12. 25/Edwards SB LTR * 28564.0 10143.0 28554.9 10221.5 * 79. 353. AG 24. 100.0
 1.0 10.0 0.54 4.0
 13. 25/Edwards WB LTR * 28610.5 10104.0 28686.3 10091.7 * 77. 99. AG 24. 100.0
 1.0 20.0 0.48 3.9
 14. 25/Edwards NB LTR * 28576.0 10049.5 28591.9 9904.9 * 145. 174. AG 24. 100.0
 1.0 10.0 0.85 7.4
 15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 672. 2.7
 1.0 42.0
 16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 1147. 2.6
 1.0 66.0
 17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 581. 2.7
 1.0 42.0
 18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1518. 2.6
 1.0 66.0
 19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 1026. 2.6
 1.0 66.0
 20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 418. 4.1
 1.0 54.0
 21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 1115. 2.6
 1.0 66.0
 22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1014. 2.6
 1.0 42.0
 23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 41. 2.6
 1.0 30.0
 24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1891. 2.6
 1.0 54.0
 25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 1020. 2.6
 1.0 54.0
 26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 524. 2.7
 1.0 42.0
 27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1656. 2.6
 1.0 54.0

NB_2
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0
 PAGE 2
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:14:36
 ADDITIONAL QUEUE LINK PARAMETERS
 LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
 ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
 RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
 1. 25/Wading EB LTR * 80 25 3.0 593 1600 13.40 1
 3 2. 25/Wading SB LTR * 80 55 3.0 303 1600 13.40 1
 3 3. 25/Wading WB LTR * 80 25 3.0 748 1600 13.40 1
 3 4. 25/Wading NB LTR * 80 55 3.0 300 1600 13.40 1
 3 5. 25/Burman EB TR * 95 35 3.0 452 1600 13.40 1
 3 6. 25/Burman NB LR * 95 60 3.0 324 1600 13.40 1
 3 7. 25/Burman WB LT * 95 35 3.0 536 1600 13.40 1
 3 8. 25/25A EB LT * 95 35 3.0 565 1600 13.40 1
 3 9. 25/25A SB LR * 95 60 3.0 354 1600 13.40 1
 3 10. 25/25A WB TR * 95 35 3.0 1174 1600 13.40 1
 3 11. 25/Edwards EB LTR * 90 30 3.0 851 1600 13.40 1
 3 12. 25/Edwards SB LTR * 90 60 3.0 241 1600 13.40 1
 3 13. 25/Edwards WB LTR * 90 30 3.0 936 1600 13.40 1
 3 14. 25/Edwards NB LTR * 90 60 3.0 377 1600 13.40 1
 RECEPTOR LOCATIONS
 RECEPTOR * COORDINATES (FT) *
 * X Y Z *
 1. 25/25A NE1 * 16354.1 10443.7 6.0 *
 2. 25/25A NE2 * 16371.3 10425.0 6.0 *
 3. 25/25A NE3 * 16388.6 10407.5 6.0 *
 4. 25/25A NE4 * 16405.8 10389.4 6.0 *
 5. 25/25A NE5 * 16423.0 10371.3 6.0 *
 6. 25/25A NE6 * 16440.3 10353.2 6.0 *
 7. 25/25A NE7 * 16457.5 10335.0 6.0 *
 8. 25/25A NE8 * 16474.7 10316.9 6.0 *
 9. 25/25A NE9 * 16492.0 10298.8 6.0 *
 10. 25/25A NE10 * 16509.2 10280.7 6.0 *
 11. 25/25A NE11 * 16526.4 10262.6 6.0 *
 12. 25/25A NE12 * 16543.7 10244.5 6.0 *
 13. 25/25A NE13 * 16560.9 10226.4 6.0 *
 14. 25/25A NE14 * 16585.7 10229.8 6.0 *
 15. 25/25A NE15 * 16610.5 10233.1 6.0 *
 16. 25/25A NE16 * 16635.2 10236.5 6.0 *
 17. 25/25A NE17 * 16660.0 10239.9 6.0 *
 18. 25/25A NE18 * 16684.8 10243.3 6.0 *
 19. 25/25A NE19 * 16709.5 10246.6 6.0 *
 20. 25/25A NE20 * 16759.1 10253.4 6.0 *
 21. 25/25A NE21 * 16783.9 10256.8 6.0 *
 22. 25/25A NE22 * 16808.6 10260.1 6.0 *
 23. 25/25A NE23 * 16833.4 10263.5 6.0 *
 24. 25/25A NE25 * 16882.9 10270.3 6.0 *

JOB: Calverton

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JOB: Calverton

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WIND ANGLE RANGE: 0.-360.

JOB: Calverton

RUN: No-Build

— — — — —

WIND ANGLE RANGE: 0.-360.

NB_2a
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build

DATE : 4/21/14
 TIME : 13:16:43

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES
 MIXH = 1000. M AMB = 0.0 PPM

LINK VARIABLES

H	W	V/C QUEUE	*	LINK DESCRIPTION	*	LINK COORDINATES (FT)	*	LENGTH	BRG TYPE	VPH	EF
(G/MI)	(FT)	(FT)	(VEH)			X1 Y1 X2 Y2		(FT)	(DEG)		
1.0	30.0	0.20	1.4	1. 25/Wading EB LTR	*	4564.0 5039.0 4542.2 5023.2	*	27.	234. AG	34.	100.0
1.0	20.0	0.38	2.3	2. 25/Wading SB LTR	*	4586.5 5120.0 4581.6 5165.2	*	45.	354. AG	49.	100.0
1.0	30.0	0.25	1.7	3. 25/Wading WB LTR	*	4635.5 5114.0 4662.5 5134.7	*	34.	53. AG	34.	100.0
1.0	20.0	0.38	2.3	4. 25/Wading NB LTR	*	4623.5 5024.5 4637.1 4981.5	*	45.	162. AG	49.	100.0
1.0	20.0	0.24	2.2	5. 25/Burman EB TR	*	13587.0 9534.5 13545.5 9522.4	*	43.	254. AG	26.	100.0
1.0	20.0	0.32	2.7	6. 25/Burman NB LR	*	13656.0 9491.5 13670.1 9440.3	*	53.	165. AG	45.	100.0
1.0	20.0	0.29	2.6	7. 25/Burman WB LT	*	13668.0 9575.0 13717.2 9589.4	*	51.	74. AG	26.	100.0
1.0	10.0	0.61	5.5	8. 25/25A EB LT	*	16490.0 10154.0 16383.5 10135.2	*	108.	260. AG	13.	100.0
1.0	20.0	0.35	3.0	9. 25/25A SB LR	*	16534.5 10214.0 16492.2 10253.8	*	58.	313. AG	45.	100.0
1.0	20.0	0.63	5.7	10. 25/25A WB TR	*	16715.5 10219.0 16826.7 10234.7	*	112.	82. AG	26.	100.0
1.0	10.0	0.87	8.2	11. 25/Edwards EB LTR	*	28529.0 10104.5 28369.2 10129.5	*	162.	279. AG	12.	100.0
1.0	10.0	0.54	4.0	12. 25/Edwards SB LTR	*	28564.0 10143.0 28554.9 10221.5	*	79.	353. AG	24.	100.0
1.0	20.0	0.48	3.9	13. 25/Edwards WB LTR	*	28610.5 10104.0 28686.3 10091.7	*	77.	99. AG	24.	100.0
1.0	10.0	0.85	7.4	14. 25/Edwards NB LTR	*	28576.0 10049.5 28591.9 9904.9	*	145.	174. AG	24.	100.0
1.0	42.0			15. Rt25/Wading North	*	4598.5 5080.0 4556.0 5419.0	*	342.	353. AG	672.	2.7
1.0	66.0			16. Rt25/Wading East	*	4606.0 5074.5 4874.5 5276.5	*	336.	53. AG	1147.	2.6
1.0	42.0			17. Rt25/Wading South	*	4601.5 5082.5 4702.5 4746.5	*	351.	163. AG	581.	2.7
1.0	66.0			18. Rt25/Wading West	*	4599.5 5082.5 4292.0 4852.5	*	384.	233. AG	1518.	2.6
1.0	66.0			19. 25/Burman East	*	13634.0 9549.5 14044.0 9671.0	*	428.	73. AG	1026.	2.6
1.0	54.0			20. 25/Burman South	*	13639.0 9543.5 13719.0 9214.5	*	339.	166. AG	418.	4.1
1.0	66.0			21. 25/Burman West	*	13634.0 9549.5 13219.0 9440.0	*	429.	255. AG	1115.	2.6
1.0	42.0			22. 25/25A North	*	16548.0 10195.0 16330.5 10423.5	*	315.	316. AG	1014.	2.6
1.0	30.0			23. 25/25A North-RT	*	16489.5 10169.0 16472.5 10275.5	*	108.	351. AG	41.	2.6
1.0	54.0			24. 25/25A East	*	16549.5 10187.5 16946.0 10241.5	*	400.	82. AG	1891.	2.6
1.0	54.0			25. 25/25A West	*	16549.5 10178.0 16079.0 10088.5	*	479.	259. AG	1020.	2.6
1.0	42.0			26. 25/Edwards North	*	28574.0 10092.5 28539.0 10433.5	*	343.	354. AG	524.	2.7
1.0	54.0			27. 25/Edwards East	*	28569.5 10103.0 28950.5 10039.5	*	386.	99. AG	1656.	2.6

NB_2a
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0

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 JOB: Calverton
 RUN: No-Build

DATE : 4/21/14
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ADDITIONAL QUEUE LINK PARAMETERS

ARRIVAL	LINK DESCRIPTION	* CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL
RATE		LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE
		(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)	
3	1. 25/Wading EB LTR	* 80	25	3.0	593	1600	13.40	1
3	2. 25/Wading SB LTR	* 80	55	3.0	303	1600	13.40	1
3	3. 25/Wading WB LTR	* 80	25	3.0	748	1600	13.40	1
3	4. 25/Wading NB LTR	* 80	55	3.0	300	1600	13.40	1
3	5. 25/Burman EB TR	* 95	35	3.0	452	1600	13.40	1
3	6. 25/Burman NB LR	* 95	60	3.0	324	1600	13.40	1
3	7. 25/Burman WB LT	* 95	35	3.0	536	1600	13.40	1
3	8. 25/25A EB LT	* 95	35	3.0	565	1600	13.40	1
3	9. 25/25A SB LR	* 95	60	3.0	354	1600	13.40	1
3	10. 25/25A WB TR	* 95	35	3.0	1174	1600	13.40	1
3	11. 25/Edwards EB LTR	* 90	30	3.0	851	1600	13.40	1
3	12. 25/Edwards SB LTR	* 90	60	3.0	241	1600	13.40	1
3	13. 25/Edwards WB LTR	* 90	30	3.0	936	1600	13.40	1
3	14. 25/Edwards NB LTR	* 90	60	3.0	377	1600	13.40	1

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (FT)	* Y	* Z
1. 25/25A NW1	* 16174.6	10144.3	6.0	*
2. 25/25A NW2	* 16199.1	10149.0	6.0	*
3. 25/25A NW3	* 16223.7	10153.7	6.0	*
4. 25/25A NW4	* 16248.3	10158.4	6.0	*
5. 25/25A NW5	* 16272.8	10163.0	6.0	*
6. 25/25A NW6	* 16297.4	10167.7	6.0	*
7. 25/25A NW7	* 16321.9	10172.4	6.0	*
8. 25/25A NW8	* 16346.5	10177.1	6.0	*
9. 25/25A NW9	* 16371.1	10181.7	6.0	*
10. 25/25A NW10	* 16395.6	10186.4	6.0	*
11. 25/25A NW11	* 16420.2	10191.1	6.0	*
12. 25/25A NW12	* 16444.7	10195.7	6.0	*
13. 25/25A NW13	* 16469.3	10200.4	6.0	*
14. 25/25A NW14	* 16495.4	10225.1	6.0	*
15. 25/25A NW15	* 16454.6	10248.2	6.0	*
16. 25/25A NW16	* 16436.1	10267.6	6.0	*
17. 25/25A NW17	* 16418.2	10286.4	6.0	*
18. 25/25A NW18	* 16400.6	10304.9	6.0	*
19. 25/25A NW19	* 16383.2	10323.2	6.0	*
20. 25/25A NW20	* 16365.8	10341.5	6.0	*
21. 25/25A NW21	* 16348.4	10359.7	6.0	*
22. 25/25A NW22	* 16331.1	10377.9	6.0	*
23. 25/25A NW23	* 16313.8	10396.1	6.0	*
24. 25/25A NW24	* 16296.5	10414.3	6.0	*

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NB_2a

340.	*	0.1	0.0	0.0	0.0	0.1
350.	*	0.1	0.0	0.0	0.0	0.1
360.	*	0.1	0.1	0.0	0.0	0.1
-----*						
MAX	*	0.1	0.1	0.1	0.1	0.3
DEGR.	*	0	0	40	90	70

THE HIGHEST CONCENTRATION OF 0.30 PPM OCCURRED AT RECEPTOR REC13.

PAGE 1
 JOB: Calverton RUN: No-Build

DATE : 4/21/14
 TIME : 13:16:50

The MODE flag has been set to C for calculating CO averages.

SITE & METEOROLOGICAL VARIABLES

VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM

LINK VARIABLES

H	W	V/C QUEUE	*	LINK DESCRIPTION	*	LINK COORDINATES (FT)	*	LENGTH	BRG TYPE	VPH	EF
(G/MI)	(FT)	(FT)	(VEH)			X1 Y1 X2 Y2		(FT)	(DEG)		
1.0	30.0	0.20	1.4	1. 25/Wading EB LTR	*	4564.0 5039.0 4542.2 5023.2	*	27.	234. AG	34.	100.0
1.0	20.0	0.38	2.3	2. 25/Wading SB LTR	*	4586.5 5120.0 4581.6 5165.2	*	45.	354. AG	49.	100.0
1.0	30.0	0.25	1.7	3. 25/Wading WB LTR	*	4635.5 5114.0 4662.5 5134.7	*	34.	53. AG	34.	100.0
1.0	20.0	0.38	2.3	4. 25/Wading NB LTR	*	4623.5 5024.5 4637.1 4981.5	*	45.	162. AG	49.	100.0
1.0	20.0	0.24	2.2	5. 25/Burman EB TR	*	13587.0 9534.5 13545.5 9522.4	*	43.	254. AG	26.	100.0
1.0	20.0	0.32	2.7	6. 25/Burman NB LR	*	13656.0 9491.5 13670.1 9440.3	*	53.	165. AG	45.	100.0
1.0	20.0	0.29	2.6	7. 25/Burman WB LT	*	13668.0 9575.0 13717.2 9589.4	*	51.	74. AG	26.	100.0
1.0	10.0	0.61	5.5	8. 25/25A EB LT	*	16490.0 10154.0 16383.5 10135.2	*	108.	260. AG	13.	100.0
1.0	20.0	0.35	3.0	9. 25/25A SB LR	*	16534.5 10214.0 16492.2 10253.8	*	58.	313. AG	45.	100.0
1.0	20.0	0.63	5.7	10. 25/25A WB TR	*	16715.5 10219.0 16826.7 10234.7	*	112.	82. AG	26.	100.0
1.0	10.0	0.87	8.2	11. 25/Edwards EB LTR	*	28529.0 10104.5 28369.2 10129.5	*	162.	279. AG	12.	100.0
1.0	10.0	0.54	4.0	12. 25/Edwards SB LTR	*	28564.0 10143.0 28554.9 10221.5	*	79.	353. AG	24.	100.0
1.0	20.0	0.48	3.9	13. 25/Edwards WB LTR	*	28610.5 10104.0 28686.3 10091.7	*	77.	99. AG	24.	100.0
1.0	10.0	0.85	7.4	14. 25/Edwards NB LTR	*	28576.0 10049.5 28591.9 9904.9	*	145.	174. AG	24.	100.0
1.0	42.0			15. Rt25/Wading North	*	4598.5 5080.0 4556.0 5419.0	*	342.	353. AG	672.	2.7
1.0	66.0			16. Rt25/Wading East	*	4606.0 5074.5 4874.5 5276.5	*	336.	53. AG	1147.	2.6
1.0	42.0			17. Rt25/Wading South	*	4601.5 5082.5 4702.5 4746.5	*	351.	163. AG	581.	2.7
1.0	66.0			18. Rt25/Wading West	*	4599.5 5082.5 4292.0 4852.5	*	384.	233. AG	1518.	2.6
1.0	66.0			19. 25/Burman East	*	13634.0 9549.5 14044.0 9671.0	*	428.	73. AG	1026.	2.6
1.0	54.0			20. 25/Burman South	*	13639.0 9543.5 13719.0 9214.5	*	339.	166. AG	418.	4.1
1.0	66.0			21. 25/Burman West	*	13634.0 9549.5 13219.0 9440.0	*	429.	255. AG	1115.	2.6
1.0	42.0			22. 25/25A North	*	16548.0 10195.0 16330.5 10423.5	*	315.	316. AG	1014.	2.6
1.0	30.0			23. 25/25A North-RT	*	16489.5 10169.0 16472.5 10275.5	*	108.	351. AG	41.	2.6
1.0	54.0			24. 25/25A East	*	16549.5 10187.5 16946.0 10241.5	*	400.	82. AG	1891.	2.6
1.0	54.0			25. 25/25A West	*	16549.5 10178.0 16079.0 10088.5	*	479.	259. AG	1020.	2.6
1.0	42.0			26. 25/Edwards North	*	28574.0 10092.5 28539.0 10433.5	*	343.	354. AG	524.	2.7
1.0	54.0			27. 25/Edwards East	*	28569.5 10103.0 28950.5 10039.5	*	386.	99. AG	1656.	2.6

28. 25/Edwards South	*	28563.5	10094.0	28604.5	9727.0	*	369.	174. AG	711.	2.7
29. 25/Edwards West	*	28574.0	10103.0	28153.5	10175.0	*	427.	280. AG	1920.	2.6

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 JOB: Calverton RUN: No-Build

DATE : 4/21/14
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ADDITIONAL QUEUE LINK PARAMETERS

ARRIVAL	LINK DESCRIPTION	* CYCLE	RED	CLEARANCE	APPROACH	SATURATION	IDLE	SIGNAL
RATE		LENGTH	TIME	LOST TIME	VOL	FLOW RATE	EM FAC	TYPE
		(SEC)	(SEC)	(SEC)	(VPH)	(VPH)	(gm/hr)	
3	1. 25/Wading EB LTR	* 80	25	3.0	593	1600	13.40	1
3	2. 25/Wading SB LTR	* 80	55	3.0	303	1600	13.40	1
3	3. 25/Wading WB LTR	* 80	25	3.0	748	1600	13.40	1
3	4. 25/Wading NB LTR	* 80	55	3.0	300	1600	13.40	1
3	5. 25/Burman EB TR	* 95	35	3.0	452	1600	13.40	1
3	6. 25/Burman NB LR	* 95	60	3.0	324	1600	13.40	1
3	7. 25/Burman WB LT	* 95	35	3.0	536	1600	13.40	1
3	8. 25/25A EB LT	* 95	35	3.0	565	1600	13.40	1
3	9. 25/25A SB LR	* 95	60	3.0	354	1600	13.40	1
3	10. 25/25A WB TR	* 95	35	3.0	1174	1600	13.40	1
3	11. 25/Edwards EB LTR	* 90	30	3.0	851	1600	13.40	1
3	12. 25/Edwards SB LTR	* 90	60	3.0	241	1600	13.40	1
3	13. 25/Edwards WB LTR	* 90	30	3.0	936	1600	13.40	1
3	14. 25/Edwards NB LTR	* 90	60	3.0	377	1600	13.40	1

RECEPTOR LOCATIONS

RECEPTOR	* X	COORDINATES (FT)	* Y	* Z
1. 25/Burman N1	*	13332.3	9514.4	6.0
2. 25/Burman N2	*	13356.5	9520.7	6.0
3. 25/Burman N3	*	13380.7	9527.1	6.0
4. 25/Burman N4	*	13404.8	9533.5	6.0
5. 25/Burman N5	*	13429.0	9539.9	6.0
6. 25/Burman N6	*	13453.2	9546.3	6.0
7. 25/Burman N7	*	13477.4	9552.6	6.0
8. 25/Burman N8	*	13501.5	9559.0	6.0
9. 25/Burman N9	*	13525.7	9565.4	6.0
10. 25/Burman N10	*	13549.9	9571.8	6.0
11. 25/Burman N11	*	13574.1	9578.2	6.0
12. 25/Burman N12	*	13598.2	9584.5	6.0
13. 25/Burman N13	*	13622.4	9590.9	6.0
14. 25/Burman N14	*	13646.4	9598.0	6.0
15. 25/Burman N15	*	13670.3	9605.1	6.0
16. 25/Burman N16	*	13694.3	9612.2	6.0
17. 25/Burman N17	*	13718.3	9619.3	6.0
18. 25/Burman N18	*	13742.2	9626.4	6.0
19. 25/Burman N19	*	13766.2	9633.5	6.0
20. 25/Burman N20	*	13790.2	9640.6	6.0
21. 25/Burman N21	*	13814.2	9647.7	6.0
22. 25/Burman N22	*	13837.9	9655.5	6.0
23. 25/Burman N23	*	13862.1	9661.9	6.0
24. 25/Burman N24	*	13886.1	9669.1	6.0

25. 25/Burman N25 * 13910.0 9676.2 6.0 *
26. 25/Burman SE1 * 13970.6 9694.4 6.0 *
27. 25/Burman SE2 * 13946.7 9597.3 6.0 *
28. 25/Burman SE3 * 13922.7 9590.2 6.0 *
29. 25/Burman SE4 * 13898.7 9583.1 6.0 *
30. 25/Burman SE5 * 13874.8 9576.0 6.0 *
31. 25/Burman SE6 * 13850.8 9568.9 6.0 *

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JOB: Calverton RUN: No-Build

DATE : 4/21/14
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RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
32. 25/Burman SE7	13826.8	9561.8	6.0
33. 25/Burman SE8	13802.8	9554.7	6.0
34. 25/Burman SE9	13778.9	9547.6	6.0
35. 25/Burman SE10	13754.9	9540.5	6.0
36. 25/Burman SE11	13739.9	9533.4	6.0
37. 25/Burman SE12	13707.0	9526.3	6.0
38. 25/Burman SE13	13683.0	9519.2	6.0
39. 25/Burman SE14	13688.9	9494.9	6.0
40. 25/Burman SE15	13694.8	9470.6	6.0
41. 25/Burman SE16	13700.7	9446.3	6.0
42. 25/Burman SE17	13706.6	9422.0	6.0
43. 25/Burman SE18	13712.5	9397.7	6.0
44. 25/Burman SE19	13718.4	9373.4	6.0
45. 25/Burman SE20	13724.3	9349.1	6.0
46. 25/Burman SE21	13730.3	9324.8	6.0
47. 25/Burman SE22	13736.2	9300.5	6.0
48. 25/Burman SE23	13742.1	9276.3	6.0
49. 25/Burman SE24	13748.0	9252.0	6.0
50. 25/Burman SE25	13753.9	9227.7	6.0

PAGE 4
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20

0.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

NB_3

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
150.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
160.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
170.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
180.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
190.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
200.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
210.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
220.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
230.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
240.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
DEGR.	*	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
210		240	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

PAGE 5
JOB: Calverton RUN: No-Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

NB_3a
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:16:54
 The MODE flag has been set to C for calculating CO averages.
 SITE & METEOROLOGICAL VARIABLES
 VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
 LINK VARIABLES
 LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
 H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
 (G/MI) (FT) (FT) (VEH)
 1. 25/Wading EB LTR * 4564.0 5039.0 4542.2 5023.2 * 27. 234. AG 34. 100.0
 1.0 30.0 0.20 1.4
 2. 25/Wading SB LTR * 4586.5 5120.0 4581.6 5165.2 * 45. 354. AG 49. 100.0
 1.0 20.0 0.38 2.3
 3. 25/Wading WB LTR * 4635.5 5114.0 4662.5 5134.7 * 34. 53. AG 34. 100.0
 1.0 30.0 0.25 1.7
 4. 25/Wading NB LTR * 4623.5 5024.5 4637.1 4981.5 * 45. 162. AG 49. 100.0
 1.0 20.0 0.38 2.3
 5. 25/Burman EB TR * 13587.0 9534.5 13545.5 9522.4 * 43. 254. AG 26. 100.0
 1.0 20.0 0.24 2.2
 6. 25/Burman NB LR * 13656.0 9491.5 13670.1 9440.3 * 53. 165. AG 45. 100.0
 1.0 20.0 0.32 2.7
 7. 25/Burman WB LT * 13668.0 9575.0 13717.2 9589.4 * 51. 74. AG 26. 100.0
 1.0 20.0 0.29 2.6
 8. 25/25A EB LT * 16490.0 10154.0 16383.5 10135.2 * 108. 260. AG 13. 100.0
 1.0 10.0 0.61 5.5
 9. 25/25A SB LR * 16534.5 10214.0 16492.2 10253.8 * 58. 313. AG 45. 100.0
 1.0 20.0 0.35 3.0
 10. 25/25A WB TR * 16715.5 10219.0 16826.7 10234.7 * 112. 82. AG 26. 100.0
 1.0 20.0 0.63 5.7
 11. 25/Edwards EB LTR * 28529.0 10104.5 28369.2 10129.5 * 162. 279. AG 12. 100.0
 1.0 10.0 0.87 8.2
 12. 25/Edwards SB LTR * 28564.0 10143.0 28554.9 10221.5 * 79. 353. AG 24. 100.0
 1.0 10.0 0.54 4.0
 13. 25/Edwards WB LTR * 28610.5 10104.0 28686.3 10091.7 * 77. 99. AG 24. 100.0
 1.0 20.0 0.48 3.9
 14. 25/Edwards NB LTR * 28576.0 10049.5 28591.9 9904.9 * 145. 174. AG 24. 100.0
 1.0 10.0 0.85 7.4
 15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 672. 2.7
 1.0 42.0
 16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 1147. 2.6
 1.0 66.0
 17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 581. 2.7
 1.0 42.0
 18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1518. 2.6
 1.0 66.0
 19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 1026. 2.6
 1.0 66.0
 20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 418. 4.1
 1.0 54.0
 21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 1115. 2.6
 1.0 66.0
 22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1014. 2.6
 1.0 42.0
 23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 41. 2.6
 1.0 30.0
 24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1891. 2.6
 1.0 54.0
 25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 1020. 2.6
 1.0 54.0
 26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 524. 2.7
 1.0 42.0
 27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1656. 2.6
 1.0 54.0

NB_3a
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0
 PAGE 2
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:16:54
 ADDITIONAL QUEUE LINK PARAMETERS
 LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
 ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
 RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
 1. 25/Wading EB LTR * 80 25 3.0 593 1600 13.40 1
 3 2. 25/Wading SB LTR * 80 55 3.0 303 1600 13.40 1
 3 3. 25/Wading WB LTR * 80 25 3.0 748 1600 13.40 1
 3 4. 25/Wading NB LTR * 80 55 3.0 300 1600 13.40 1
 3 5. 25/Burman EB TR * 95 35 3.0 452 1600 13.40 1
 3 6. 25/Burman NB LR * 95 60 3.0 324 1600 13.40 1
 3 7. 25/Burman WB LT * 95 35 3.0 536 1600 13.40 1
 3 8. 25/25A EB LT * 95 35 3.0 565 1600 13.40 1
 3 9. 25/25A SB LR * 95 60 3.0 354 1600 13.40 1
 3 10. 25/25A WB TR * 95 35 3.0 1174 1600 13.40 1
 3 11. 25/Edwards EB LTR * 90 30 3.0 851 1600 13.40 1
 3 12. 25/Edwards SB LTR * 90 60 3.0 241 1600 13.40 1
 3 13. 25/Edwards WB LTR * 90 30 3.0 936 1600 13.40 1
 3 14. 25/Edwards NB LTR * 90 60 3.0 377 1600 13.40 1
 RECEPTOR LOCATIONS
 RECEPTOR * COORDINATES (FT) *
 * X Y Z *
 1. 25/Burman SW1 * 13682.6 9207.6 6.0 *
 2. 25/Burman SW2 * 13676.7 9231.9 6.0 *
 3. 25/Burman SW3 * 13670.8 9256.2 6.0 *
 4. 25/Burman SW4 * 13664.9 9280.5 6.0 *
 5. 25/Burman SW5 * 13659.0 9304.8 6.0 *
 6. 25/Burman SW6 * 13653.1 9329.1 6.0 *
 7. 25/Burman SW7 * 13647.2 9353.4 6.0 *
 8. 25/Burman SW8 * 13641.2 9377.7 6.0 *
 9. 25/Burman SW9 * 13635.3 9402.0 6.0 *
 10. 25/Burman SW10 * 13629.4 9426.3 6.0 *
 11. 25/Burman SW11 * 13623.5 9450.6 6.0 *
 12. 25/Burman SW12 * 13617.6 9474.8 6.0 *
 13. 25/Burman SW13 * 13611.7 9499.2 6.0 *
 14. 25/Burman SW14 * 13587.5 9492.8 6.0 *
 15. 25/Burman SW15 * 13563.4 9486.4 6.0 *
 16. 25/Burman SW16 * 13539.2 9480.0 6.0 *
 17. 25/Burman SW17 * 13515.0 9473.6 6.0 *
 18. 25/Burman SW18 * 13490.8 9467.3 6.0 *
 19. 25/Burman SW19 * 13466.7 9460.9 6.0 *
 20. 25/Burman SW20 * 13442.5 9454.5 6.0 *
 21. 25/Burman SW21 * 13418.3 9448.1 6.0 *
 22. 25/Burman SW22 * 13394.2 9441.7 6.0 *
 23. 25/Burman SW23 * 13370.0 9435.4 6.0 *
 24. 25/Burman SW24 * 13345.8 9429.0 6.0 *

NB_3a

340.	*	0.1	0.1	0.1	0.1	0.1
350.	*	0.1	0.1	0.1	0.1	0.1
360.	*	0.1	0.1	0.1	0.1	0.1
-----*						
MAX	*	0.1	0.1	0.1	0.1	0.1
DEGR.	*	0	0	0	0	0

THE HIGHEST CONCENTRATION OF 0.20 PPM OCCURRED AT RECEPTOR REC9 .

NB_4
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:17: 2
 The MODE flag has been set to C for calculating CO averages.
 SITE & METEOROLOGICAL VARIABLES
 VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
 LINK VARIABLES
 LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
 H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
 (G/MI) (FT) (FT) (VEH)
 1. 25/Wading EB LTR * 4564.0 5039.0 4542.2 5023.2 * 27. 234. AG 34. 100.0
 1.0 30.0 0.20 1.4
 2. 25/Wading SB LTR * 4586.5 5120.0 4581.6 5165.2 * 45. 354. AG 49. 100.0
 1.0 20.0 0.38 2.3
 3. 25/Wading WB LTR * 4635.5 5114.0 4662.5 5134.7 * 34. 53. AG 34. 100.0
 1.0 30.0 0.25 1.7
 4. 25/Wading NB LTR * 4623.5 5024.5 4637.1 4981.5 * 45. 162. AG 49. 100.0
 1.0 20.0 0.38 2.3
 5. 25/Burman EB TR * 13587.0 9534.5 13545.5 9522.4 * 43. 254. AG 26. 100.0
 1.0 20.0 0.24 2.2
 6. 25/Burman NB LR * 13656.0 9491.5 13670.1 9440.3 * 53. 165. AG 45. 100.0
 1.0 20.0 0.32 2.7
 7. 25/Burman WB LT * 13668.0 9575.0 13717.2 9589.4 * 51. 74. AG 26. 100.0
 1.0 20.0 0.29 2.6
 8. 25/25A EB LT * 16490.0 10154.0 16383.5 10135.2 * 108. 260. AG 13. 100.0
 1.0 10.0 0.61 5.5
 9. 25/25A SB LR * 16534.5 10214.0 16492.2 10253.8 * 58. 313. AG 45. 100.0
 1.0 20.0 0.35 3.0
 10. 25/25A WB TR * 16715.5 10219.0 16826.7 10234.7 * 112. 82. AG 26. 100.0
 1.0 20.0 0.63 5.7
 11. 25/Edwards EB LTR * 28529.0 10104.5 28369.2 10129.5 * 162. 279. AG 12. 100.0
 1.0 10.0 0.87 8.2
 12. 25/Edwards SB LTR * 28564.0 10143.0 28554.9 10221.5 * 79. 353. AG 24. 100.0
 1.0 10.0 0.54 4.0
 13. 25/Edwards WB LTR * 28610.5 10104.0 28686.3 10091.7 * 77. 99. AG 24. 100.0
 1.0 20.0 0.48 3.9
 14. 25/Edwards NB LTR * 28576.0 10049.5 28591.9 9904.9 * 145. 174. AG 24. 100.0
 1.0 10.0 0.85 7.4
 15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 672. 2.7
 1.0 42.0
 16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 1147. 2.6
 1.0 66.0
 17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 581. 2.7
 1.0 42.0
 18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1518. 2.6
 1.0 66.0
 19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 1026. 2.6
 1.0 66.0
 20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 418. 4.1
 1.0 54.0
 21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 1115. 2.6
 1.0 66.0
 22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1014. 2.6
 1.0 42.0
 23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 41. 2.6
 1.0 30.0
 24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1891. 2.6
 1.0 54.0
 25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 1020. 2.6
 1.0 54.0
 26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 524. 2.7
 1.0 42.0
 27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1656. 2.6
 1.0 54.0

NB_4
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0
 PAGE 2
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:17: 2
 ADDITIONAL QUEUE LINK PARAMETERS
 LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
 ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
 RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
 1. 25/Wading EB LTR * 80 25 3.0 593 1600 13.40 1
 3 2. 25/Wading SB LTR * 80 55 3.0 303 1600 13.40 1
 3 3. 25/Wading WB LTR * 80 25 3.0 748 1600 13.40 1
 3 4. 25/Wading NB LTR * 80 55 3.0 300 1600 13.40 1
 3 5. 25/Burman EB TR * 95 35 3.0 452 1600 13.40 1
 3 6. 25/Burman NB LR * 95 60 3.0 324 1600 13.40 1
 3 7. 25/Burman WB LT * 95 35 3.0 536 1600 13.40 1
 3 8. 25/25A EB LT * 95 35 3.0 565 1600 13.40 1
 3 9. 25/25A SB LR * 95 60 3.0 354 1600 13.40 1
 3 10. 25/25A WB TR * 95 35 3.0 1174 1600 13.40 1
 3 11. 25/Edwards EB LTR * 90 30 3.0 851 1600 13.40 1
 3 12. 25/Edwards SB LTR * 90 60 3.0 241 1600 13.40 1
 3 13. 25/Edwards WB LTR * 90 30 3.0 936 1600 13.40 1
 3 14. 25/Edwards NB LTR * 90 60 3.0 377 1600 13.40 1
 RECEPTOR LOCATIONS
 RECEPTOR * COORDINATES (FT) *
 * X Y Z *
 1. 25/Wading NE1 * 4584.8 5438.1 6.0 *
 2. 25/Wading NE2 * 4588.0 5413.3 6.0 *
 3. 25/Wading NE3 * 4591.1 5388.5 6.0 *
 4. 25/Wading NE4 * 4594.2 5363.7 6.0 *
 5. 25/Wading NE5 * 4597.3 5338.9 6.0 *
 6. 25/Wading NE6 * 4600.4 5314.1 6.0 *
 7. 25/Wading NE7 * 4603.5 5289.3 6.0 *
 8. 25/Wading NE8 * 4606.6 5264.5 6.0 *
 9. 25/Wading NE9 * 4609.7 5239.7 6.0 *
 10. 25/Wading NE10 * 4612.8 5214.9 6.0 *
 11. 25/Wading NE11 * 4615.9 5190.1 6.0 *
 12. 25/Wading NE12 * 4619.0 5165.3 6.0 *
 13. 25/Wading NE13 * 4622.0 5140.4 6.0 *
 14. 25/Wading NE14 * 4642.1 5155.5 6.0 *
 15. 25/Wading NE15 * 4662.1 5170.5 6.0 *
 16. 25/Wading NE16 * 4682.1 5185.6 6.0 *
 17. 25/Wading NE17 * 4702.1 5200.6 6.0 *
 18. 25/Wading NE18 * 4722.0 5215.6 6.0 *
 19. 25/Wading NE19 * 4742.0 5230.7 6.0 *
 20. 25/Wading NE20 * 4762.0 5245.7 6.0 *
 21. 25/Wading NE21 * 4782.0 5260.7 6.0 *
 22. 25/Wading NE22 * 4802.0 5275.7 6.0 *
 23. 25/Wading NE23 * 4821.9 5290.7 6.0 *
 24. 25/Wading NE24 * 4841.9 5305.8 6.0 *
 Page 2

NB_4a
 CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
 PAGE 1
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:17: 6
 The MODE flag has been set to C for calculating CO averages.
 SITE & METEOROLOGICAL VARIABLES
 VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
 U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
 LINK VARIABLES
 LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
 H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
 (G/MI) (FT) (FT) (VEH)
 1. 25/Wading EB LTR * 4564.0 5039.0 4542.2 5023.2 * 27. 234. AG 34. 100.0
 1.0 30.0 0.20 1.4
 2. 25/Wading SB LTR * 4586.5 5120.0 4581.6 5165.2 * 45. 354. AG 49. 100.0
 1.0 20.0 0.38 2.3
 3. 25/Wading WB LTR * 4635.5 5114.0 4662.5 5134.7 * 34. 53. AG 34. 100.0
 1.0 30.0 0.25 1.7
 4. 25/Wading NB LTR * 4623.5 5024.5 4637.1 4981.5 * 45. 162. AG 49. 100.0
 1.0 20.0 0.38 2.3
 5. 25/Burman EB TR * 13587.0 9534.5 13545.5 9522.4 * 43. 254. AG 26. 100.0
 1.0 20.0 0.24 2.2
 6. 25/Burman NB LR * 13656.0 9491.5 13670.1 9440.3 * 53. 165. AG 45. 100.0
 1.0 20.0 0.32 2.7
 7. 25/Burman WB LT * 13668.0 9575.0 13717.2 9589.4 * 51. 74. AG 26. 100.0
 1.0 20.0 0.29 2.6
 8. 25/25A EB LT * 16490.0 10154.0 16383.5 10135.2 * 108. 260. AG 13. 100.0
 1.0 10.0 0.61 5.5
 9. 25/25A SB LR * 16534.5 10214.0 16492.2 10253.8 * 58. 313. AG 45. 100.0
 1.0 20.0 0.35 3.0
 10. 25/25A WB TR * 16715.5 10219.0 16826.7 10234.7 * 112. 82. AG 26. 100.0
 1.0 20.0 0.63 5.7
 11. 25/Edwards EB LTR * 28529.0 10104.5 28369.2 10129.5 * 162. 279. AG 12. 100.0
 1.0 10.0 0.87 8.2
 12. 25/Edwards SB LTR * 28564.0 10143.0 28554.9 10221.5 * 79. 353. AG 24. 100.0
 1.0 10.0 0.54 4.0
 13. 25/Edwards WB LTR * 28610.5 10104.0 28686.3 10091.7 * 77. 99. AG 24. 100.0
 1.0 20.0 0.48 3.9
 14. 25/Edwards NB LTR * 28576.0 10049.5 28591.9 9904.9 * 145. 174. AG 24. 100.0
 1.0 10.0 0.85 7.4
 15. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 672. 2.7
 1.0 42.0
 16. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 1147. 2.6
 1.0 66.0
 17. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 581. 2.7
 1.0 42.0
 18. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 1518. 2.6
 1.0 66.0
 19. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 1026. 2.6
 1.0 66.0
 20. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 418. 4.1
 1.0 54.0
 21. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 1115. 2.6
 1.0 66.0
 22. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1014. 2.6
 1.0 42.0
 23. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 41. 2.6
 1.0 30.0
 24. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 1891. 2.6
 1.0 54.0
 25. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 1020. 2.6
 1.0 54.0
 26. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 524. 2.7
 1.0 42.0
 27. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 1656. 2.6
 1.0 54.0

NB_4a
 28. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 711. 2.7
 1.0 42.0
 29. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 1920. 2.6
 1.0 54.0
 PAGE 2
 JOB: Calverton
 RUN: No-Build
 DATE : 4/21/14
 TIME : 13:17: 6
 ADDITIONAL QUEUE LINK PARAMETERS
 LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
 ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
 RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
 1. 25/Wading EB LTR * 80 25 3.0 593 1600 13.40 1
 3 2. 25/Wading SB LTR * 80 55 3.0 303 1600 13.40 1
 3 3. 25/Wading WB LTR * 80 25 3.0 748 1600 13.40 1
 3 4. 25/Wading NB LTR * 80 55 3.0 300 1600 13.40 1
 3 5. 25/Burman EB TR * 95 35 3.0 452 1600 13.40 1
 3 6. 25/Burman NB LR * 95 60 3.0 324 1600 13.40 1
 3 7. 25/Burman WB LT * 95 35 3.0 536 1600 13.40 1
 3 8. 25/25A EB LT * 95 35 3.0 565 1600 13.40 1
 3 9. 25/25A SB LR * 95 60 3.0 354 1600 13.40 1
 3 10. 25/25A WB TR * 95 35 3.0 1174 1600 13.40 1
 3 11. 25/Edwards EB LTR * 90 30 3.0 851 1600 13.40 1
 3 12. 25/Edwards SB LTR * 90 60 3.0 241 1600 13.40 1
 3 13. 25/Edwards WB LTR * 90 30 3.0 936 1600 13.40 1
 3 14. 25/Edwards NB LTR * 90 60 3.0 377 1600 13.40 1
 RECEPTOR LOCATIONS
 RECEPTOR * COORDINATES (FT) *
 * X Y Z *
 1. 25/Wading SW1 * 4674.2 4732.8 6.0 *
 2. 25/Wading SW2 * 4667.1 4756.8 6.0 *
 3. 25/Wading SW3 * 4659.9 4780.7 6.0 *
 4. 25/Wading SW4 * 4652.6 4804.6 6.0 *
 5. 25/Wading SW5 * 4645.5 4828.6 6.0 *
 6. 25/Wading SW6 * 4638.3 4852.5 6.0 *
 7. 25/Wading SW7 * 4631.1 4876.5 6.0 *
 8. 25/Wading SW8 * 4624.2 4900.5 6.0 *
 9. 25/Wading SW9 * 4616.7 4924.4 6.0 *
 10. 25/Wading SW10 * 4609.5 4948.3 6.0 *
 11. 25/Wading SW11 * 4602.3 4972.2 6.0 *
 12. 25/Wading SW12 * 4595.1 4996.2 6.0 *
 13. 25/Wading SW13 * 4587.9 5020.1 6.0 *
 14. 25/Wading SW14 * 4567.9 5085.1 6.0 *
 15. 25/Wading SW15 * 4547.8 4990.2 6.0 *
 16. 25/Wading SW16 * 4527.8 4975.2 6.0 *
 17. 25/Wading SW17 * 4507.8 4960.2 6.0 *
 18. 25/Wading SW18 * 4487.8 4945.2 6.0 *
 19. 25/Wading SW19 * 4467.8 4930.3 6.0 *
 20. 25/Wading SW20 * 4447.8 4915.3 6.0 *
 21. 25/Wading SW21 * 4427.7 4900.2 6.0 *
 22. 25/Wading SW22 * 4407.7 4885.4 6.0 *
 23. 25/Wading SW23 * 4387.7 4870.4 6.0 *
 24. 25/Wading SW24 * 4367.7 4855.4 6.0 *

TIME : 13:17: 6

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND * CONCENTRATION
ANGLE * (PPM)

0.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.2	0.1
0.1	* 0.1	0.1	0.1	0.1														
10.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.1	0.1	0.2	0.1
20.	* 0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1
0.1	0.1	0.1	0.1	0.1														
30.	* 0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.1
0.1	0.1	0.1	0.1	0.1														
40.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
0.1	* 0.1	0.1	0.1	0.1														
50.	* 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
0.1	0.1	0.1	0.1	0.1														
60.	* 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
0.0	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
0.0	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
80.	* 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0

[illegible]

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

Page 4

BD_1
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:25
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_1
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:25
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3 20. 25/Edwards NB L * 100 59 BD_1 3.0 234 1600 9.80 1
3 21. 25/Edwards EB L * 100 42 3.0 270 1600 9.80 1
3 22. 25/Edwards WB L * 100 42 3.0 36 1600 9.80 1
3 23. 25/Edwards SB L * 100 58 3.0 43 1600 9.80 1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/Edwards NE1	28570.1	10433.7	6.0
2. 25/Edwards NE2	28572.7	10408.9	6.0
3. 25/Edwards NE3	28575.2	10384.0	6.0
4. 25/Edwards NE4	28577.8	10359.1	6.0
5. 25/Edwards NE5	28580.4	10334.3	6.0
6. 25/Edwards NE6	28582.9	10309.4	6.0
7. 25/Edwards NE7	28585.4	10284.5	6.0
8. 25/Edwards NE8	28588.0	10259.7	6.0
9. 25/Edwards NE9	28590.6	10234.6	6.0
10. 25/Edwards NE10	28593.1	10209.6	6.0
11. 25/Edwards NE11	28595.7	10185.0	6.0
12. 25/Edwards NE12	28598.3	10160.0	6.0
13. 25/Edwards NE13	28600.8	10135.3	6.0
14. 25/Edwards NE14	28625.3	10131.3	6.0
15. 25/Edwards NE15	28650.0	10127.1	6.0
16. 25/Edwards NE16	28674.6	10122.9	6.0
17. 25/Edwards NE17	28699.3	10118.8	6.0
18. 25/Edwards NE18	28723.9	10114.8	6.0
19. 25/Edwards NE19	28748.5	10119.7	6.0
20. 25/Edwards NE20	28773.2	10106.6	6.0
21. 25/Edwards NE21	28798.0	10102.4	6.0
22. 25/Edwards NE22	28822.7	10098.3	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:37:25

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/Edwards NE23	28847.4	10094.2	6.0
24. 25/Edwards NE24	28871.8	10090.1	6.0
25. 25/Edwards NE25	28896.7	10086.0	6.0
26. 25/Edwards SE1	28894.3	10011.4	6.0
27. 25/Edwards SE2	28869.7	10015.5	6.0
28. 25/Edwards SE3	28845.0	10019.6	6.0
29. 25/Edwards SE4	28820.3	10023.7	6.0
30. 25/Edwards SE5	28795.7	10027.8	6.0
31. 25/Edwards SE6	28771.0	10031.9	6.0
32. 25/Edwards SE7	28746.4	10036.0	6.0
33. 25/Edwards SE8	28721.7	10040.1	6.0
34. 25/Edwards SE9	28697.1	10044.2	6.0
35. 25/Edwards SE10	28672.4	10048.3	6.0
36. 25/Edwards SE11	28647.7	10052.5	6.0
37. 25/Edwards SE12	28623.1	10056.6	6.0
38. 25/Edwards SE13	28598.4	10060.7	6.0
39. 25/Edwards SE14	28601.2	10035.8	6.0
40. 25/Edwards SE15	28604.0	10011.0	6.0
41. 25/Edwards SE16	28606.7	9986.2	6.0
42. 25/Edwards SE17	28609.5	9961.3	6.0
43. 25/Edwards SE18	28612.3	9936.4	6.0
44. 25/Edwards SE19	28615.1	9911.6	6.0
45. 25/Edwards SE20	28617.9	9886.8	6.0
46. 25/Edwards SE21	28620.6	9861.9	6.0
47. 25/Edwards SE22	28623.4	9837.1	6.0
48. 25/Edwards SE23	28626.2	9812.2	6.0
49. 25/Edwards SE24	28628.9	9787.6	6.0
50. 25/Edwards SE25	28631.7	9762.8	6.0

PAGE 4
JOB: Calverton

BD_1

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
100.	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
110.	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3
120.	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4
130.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4
140.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
150.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
160.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
170.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
180.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
190.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
200.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
210.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
220.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
230.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
240.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
250.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
260.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
270.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
280.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3
0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3

[illegible]

PAGE 5
JOB: Calverton

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REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

```
WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC21 REC22 REC23 REC24 REC25 REC26 REC27 REC28 REC29 REC30 REC31 REC32 REC33 REC34 REC35 REC36
REC37 REC38 REC39 REC40
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Page 5

[illegible]

PAGE 6
JOB: Calverton

— — — — —

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

```
WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC41 REC42 REC43 REC44 REC45 REC46 REC47 REC48 REC49 REC50
```

Page 6

		BD_1									
110.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.	*	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
190.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
200.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
210.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
220.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
230.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
240.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
250.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
260.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
270.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
280.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
290.	*	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
300.	*	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
310.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
320.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
330.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
340.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
350.	*	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
360.	*	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0

MAX	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
DEGR.	*	290	290	300	300	310	310	310	320	320	330

THE HIGHEST CONCENTRATION OF 0.50 PPM OCCURRED AT RECEPTOR REC13.

BD_1a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:31
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_1a
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:31
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3	20.	25/Edwards NB L	*	100	59	BD_1a 3.0	234	1600	9.80	1
3	21.	25/Edwards EB L	*	100	42	3.0	270	1600	9.80	1
3	22.	25/Edwards WB L	*	100	42	3.0	36	1600	9.80	1
3	23.	25/Edwards SB L	*	100	58	3.0	43	1600	9.80	1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/Edwards SW1	28568.1	9774.0	6.0
2. 25/Edwards SW2	28565.3	9798.9	6.0
3. 25/Edwards SW3	28562.5	9823.7	6.0
4. 25/Edwards SW4	28559.7	9848.6	6.0
5. 25/Edwards SW5	28556.9	9873.4	6.0
6. 25/Edwards SW6	28554.2	9898.3	6.0
7. 25/Edwards SW7	28551.4	9923.1	6.0
8. 25/Edwards SW8	28548.6	9948.0	6.0
9. 25/Edwards SW9	28545.9	9972.8	6.0
10. 25/Edwards SW10	28543.1	9997.7	6.0
11. 25/Edwards SW11	28540.3	10022.5	6.0
12. 25/Edwards SW12	28537.5	10047.3	6.0
13. 25/Edwards SW13	28534.7	10072.2	6.0
14. 25/Edwards SW14	28531.9	10097.1	6.0
15. 25/Edwards SW15	28529.1	10122.0	6.0
16. 25/Edwards SW16	28526.3	10146.9	6.0
17. 25/Edwards SW17	28523.5	10171.8	6.0
18. 25/Edwards SW18	28520.7	10196.7	6.0
19. 25/Edwards SW19	28517.9	10221.6	6.0
20. 25/Edwards SW20	28515.1	10246.5	6.0
21. 25/Edwards SW21	28512.3	10271.4	6.0
22. 25/Edwards SW22	28509.5	10296.3	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:37:31

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/Edwards SW23	28288.3	10114.4	6.0
24. 25/Edwards SW24	28285.5	10139.3	6.0
25. 25/Edwards SW25	28282.7	10164.2	6.0
26. 25/Edwards NW1	28241.6	10197.5	6.0
27. 25/Edwards NW2	28266.2	10193.2	6.0
28. 25/Edwards NW3	28290.8	10189.0	6.0
29. 25/Edwards NW4	28315.5	10184.8	6.0
30. 25/Edwards NW5	28340.1	10180.6	6.0
31. 25/Edwards NW6	28364.8	10176.4	6.0
32. 25/Edwards NW7	28389.4	10172.1	6.0
33. 25/Edwards NW8	28414.1	10167.9	6.0
34. 25/Edwards NW9	28438.7	10163.7	6.0
35. 25/Edwards NW10	28463.3	10159.5	6.0
36. 25/Edwards NW11	28487.9	10155.3	6.0
37. 25/Edwards NW12	28512.6	10151.1	6.0
38. 25/Edwards NW13	28537.3	10146.8	6.0
39. 25/Edwards NW14	28562.0	10142.6	6.0
40. 25/Edwards NW15	28586.7	10138.4	6.0
41. 25/Edwards NW16	28611.4	10134.2	6.0
42. 25/Edwards NW17	28636.1	10129.9	6.0
43. 25/Edwards NW18	28660.8	10125.7	6.0
44. 25/Edwards NW19	28685.5	10121.4	6.0
45. 25/Edwards NW20	28710.2	10117.2	6.0
46. 25/Edwards NW21	28734.9	10112.9	6.0
47. 25/Edwards NW22	28759.6	10108.7	6.0
48. 25/Edwards NW23	28784.3	10104.4	6.0
49. 25/Edwards NW24	28809.0	10100.2	6.0
50. 25/Edwards NW25	28833.7	10095.9	6.0

PAGE 4
JOB: Calverton

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
60.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
110.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
120.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
130.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
150.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
160.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
170.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
180.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
190.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
200.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
210.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
220.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
230.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
240.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
250.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
260.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
270.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
280.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

BD_1a
290. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.3 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.3 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.3 0.4 0.4 0.4 0.4
300. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.3 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.3 0.4 0.4 0.4 0.4
310. * 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.3 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.4 0.4 0.4 0.4
320. * 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.4 0.4 0.4 0.4
330. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
340. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
0.3 0.3 0.3 0.3 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
350. * 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
360. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3
0.3 0.3 0.3 0.3

MAX * 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.4 0.4 0.4 0.4 0.4
0.4 0.5 0.5 0.4
DEGR. * 0 0 30 30 20 20 0 20 10 10 20 10 70 290 290 50
50 80 80 50

PAGE 5
JOB: Calverton RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC21 REC22 REC23 REC24 REC25 REC26 REC27 REC28 REC29 REC30 REC31 REC32 REC33 REC34 REC35 REC36
REC37 REC38 REC39 REC40

0. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
10. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
20. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
30. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
40. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
60. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
70. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
80. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.5 0.5 0.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1
90. * 0.5 0.5 0.5 0.5 0.5 0.5 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1
0.1 0.2 0.1 0.1 0.1 0.3 0.3 0.3 0.2 0.2 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2
100. * 0.2 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2
0.1 0.3 0.2 0.1 0.1 0.1 0.1 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3
110. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3
0.3 0.4 0.2 0.2 0.2 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.3 0.3 0.4 0.4 0.3 0.3
120. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.4 0.4 0.3 0.3
0.4 0.4 0.3 0.2 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.4 0.3
130. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.4 0.3
0.3 0.4 0.2 0.2 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
140. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
0.3 0.4 0.3 0.2 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.2
150. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
160. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2

BD_1a
0.3 0.3 0.1 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
170. * 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
180. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
190. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
200. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
210. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
220. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
0.3 0.2 0.2 0.1 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
230. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.2 0.2 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
240. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.2 0.2 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
250. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.2 0.2 0.0 0.0 0.0 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4
260. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.3 0.1 0.0 0.0 0.0 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4
270. * 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4
0.4 0.4 0.2 0.1 0.0 0.0 0.0 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.3 0.3
280. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.3
0.3 0.3 0.1 0.0 0.3 0.3 0.3 0.2 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1
290. * 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4
300. * 0.4 0.4 0.4 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4
310. * 0.4 0.4 0.4 0.4 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
320. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
330. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
340. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
350. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
360. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1

MAX * 0.5 0.5 0.5 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.3 0.3
DEGR. * 90 90 90 90 50 120 120 110 110 110 130 120 120 120 130 230
120 110 120 150

PAGE 6
JOB: Calverton RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC41 REC42 REC43 REC44 REC45 REC46 REC47 REC48 REC49 REC50

0. * 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
10. * 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0
20. * 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0
30. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0
40. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0
50. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
60. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
70. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
80. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
90. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1
100. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2

BD_2
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:43
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_2
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:43
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
RATE * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
* (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
3 1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
3 2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3 3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
3 4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
3 5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
3 6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
3 7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
3 8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
3 9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
3 10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
3 11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
3 12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
3 13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
3 14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
3 15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
3 16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
3 17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
3 18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
3 19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3 20. 25/Edwards NB L * 100 59 BD_2 3.0 234 1600 9.80 1
3 21. 25/Edwards EB L * 100 42 3.0 270 1600 9.80 1
3 22. 25/Edwards WB L * 100 42 3.0 36 1600 9.80 1
3 23. 25/Edwards SB L * 100 58 3.0 43 1600 9.80 1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/25A NE1	16354.1	10443.7	6.0
2. 25/25A NE2	16371.3	10425.6	6.0
3. 25/25A NE3	16388.6	10407.5	6.0
4. 25/25A NE4	16405.8	10389.4	6.0
5. 25/25A NE5	16423.0	10371.3	6.0
6. 25/25A NE6	16440.3	10353.2	6.0
7. 25/25A NE7	16457.5	10335.0	6.0
8. 25/25A NE8	16474.7	10316.9	6.0
9. 25/25A NE9	16492.0	10298.8	6.0
10. 25/25A NE10	16509.2	10280.7	6.0
11. 25/25A NE11	16526.4	10262.6	6.0
12. 25/25A NE12	16543.7	10244.5	6.0
13. 25/25A NE13	16560.9	10226.4	6.0
14. 25/25A NE14	16585.7	10229.8	6.0
15. 25/25A NE15	16610.5	10233.1	6.0
16. 25/25A NE16	16635.2	10236.5	6.0
17. 25/25A NE17	16660.0	10239.9	6.0
18. 25/25A NE18	16684.8	10243.3	6.0
19. 25/25A NE19	16709.5	10246.6	6.0
20. 25/25A NE20	16759.1	10253.4	6.0
21. 25/25A NE21	16783.9	10256.8	6.0
22. 25/25A NE22	16808.6	10260.1	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:37:43

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/25A NE23	16833.4	10263.5	6.0
24. 25/25A NE25	16882.9	10270.3	6.0
25. 25/25A S1	16861.8	10192.7	6.0
26. 25/25A S2	16837.1	10189.3	6.0
27. 25/25A S3	16812.3	10186.0	6.0
28. 25/25A S4	16787.5	10182.6	6.0
29. 25/25A S5	16762.8	10179.2	6.0
30. 25/25A S6	16738.0	10175.8	6.0
31. 25/25A S7	16713.2	10172.5	6.0
32. 25/25A S8	16688.4	10169.1	6.0
33. 25/25A S9	16663.7	10165.7	6.0
34. 25/25A S10	16638.9	10162.3	6.0
35. 25/25A S11	16614.1	10159.0	6.0
36. 25/25A S12	16589.4	10155.6	6.0
37. 25/25A S13	16564.6	10152.2	6.0
38. 25/25A S14	16543.3	10139.2	6.0
39. 25/25A S15	16517.9	10134.3	6.0
40. 25/25A S16	16493.1	10129.6	6.0
41. 25/25A S17	16468.4	10124.9	6.0
42. 25/25A S18	16443.8	10120.2	6.0
43. 25/25A S19	16419.1	10115.5	6.0
44. 25/25A S20	16394.5	10110.9	6.0
45. 25/25A S21	16370.0	10106.2	6.0
46. 25/25A S22	16345.4	10101.5	6.0
47. 25/25A S23	16320.8	10096.8	6.0
48. 25/25A S24	16296.2	10092.2	6.0
49. 25/25A S25	16271.7	10087.5	6.0
50. 25/25A NE24	16858.2	10266.9	6.0

PAGE 4
JOB: Calverton
RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
80.	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.3
90.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.4	0.4
100.	0.4	0.4	0.4	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4
110.	0.4	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3
120.	0.4	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3
130.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3
140.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
150.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
160.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
170.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
180.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
190.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
200.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
210.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
220.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
230.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
240.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
250.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
260.	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
270.	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
280.	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

290. * 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
300. * 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
310. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
320. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
330. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
340. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
350. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
360. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

-----*-----
MAX * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.4 0.4
DEGR. * 130 130 130 170 170 140 140 140 140 140 160 160 180 90 90 90 90 90
90 100 100 100

♀
PAGE 5
JOB: Calverton RUN: Build

MODEL RESULTS
-----*-----

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC21 REC22 REC23 REC24 REC25 REC26 REC27 REC28 REC29 REC30 REC31 REC32 REC33 REC34 REC35 REC36
REC37 REC38 REC39 REC40

-----*-----
0. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.3 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
10. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
20. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.4 0.3 0.3 0.3 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3
30. * 0.0 0.0 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3
0.4 0.3 0.2 0.2 0.2 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
40. * 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
0.3 0.3 0.2 0.3 0.3 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
50. * 0.0 0.0 0.0 0.0 0.0 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3
0.3 0.3 0.3 0.2 0.2 0.0 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3
60. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3
0.3 0.4 0.4 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
70. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
0.4 0.4 0.3 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
80. * 0.2 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3
0.3 0.4 0.4 0.1 0.1 0.0 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
90. * 0.3 0.3 0.3 0.2 0.2 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.2 0.2 0.1 0.1 0.0 0.3 0.3 0.3 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
100. * 0.4 0.3 0.3 0.3 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
110. * 0.4 0.4 0.4 0.4 0.4 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
120. * 0.4 0.4 0.4 0.4 0.4 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.2 0.3 0.1 0.1 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
130. * 0.4 0.4 0.4 0.4 0.4 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.3 0.3 0.1 0.1 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
140. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.2 0.3 0.2 0.1 0.1 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
150. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.2 0.3 0.1 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
160. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2

BD_2
0.3 0.2 0.1 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2
170. * 0.3 0.3 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.3 0.2 0.0 0.0 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
180. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2
0.2 0.1 0.0 0.0 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
190. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2
0.2 0.0 0.0 0.0 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2
200. * 0.3 0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2
0.1 0.0 0.0 0.0 0.0 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2
210. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2
0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
220. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
0.1 0.0 0.0 0.0 0.0 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
230. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
0.1 0.0 0.0 0.0 0.0 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
240. * 0.4 0.4 0.4 0.4 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
0.1 0.0 0.0 0.0 0.0 0.4 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
250. * 0.4 0.5 0.5 0.5 0.4 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.2
0.1 0.1 0.1 0.1 0.1 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
260. * 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
0.3 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3
270. * 0.1 0.1 0.1 0.1 0.1 0.1 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.3
0.3 0.3 0.4 0.4 0.4 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.3 0.3 0.3 0.4
280. * 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.3 0.3 0.3 0.4
0.3 0.3 0.3 0.3 0.3 0.0 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.3 0.4
290. * 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.3 0.4
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
300. * 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.4 0.4
0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
310. * 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.5
0.4 0.2 0.2 0.2 0.2 0.0 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
320. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
0.3 0.3 0.2 0.2 0.2 0.0 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.3
330. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.3
0.3 0.3 0.3 0.2 0.2 0.0 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
340. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.3 0.3 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2
350. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2
360. * 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.3 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2

-----*-----
MAX * 0.4 0.5 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.5
0.4 0.4 0.4 0.4
DEGR. * 100 250 250 210 40 30 30 30 30 30 30 30 40 60 60 70 310
30 20 60 270

♀
PAGE 6
JOB: Calverton RUN: Build

MODEL RESULTS
-----*-----

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC41 REC42 REC43 REC44 REC45 REC46 REC47 REC48 REC49 REC50
-----*-----
0. * 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
10. * 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
20. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
30. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
40. * 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
50. * 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0
60. * 0.4 0.3 0.3 0.3 0.3 0.3 0.2 0.3 0.3 0.3 0.0
70. * 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.0
80. * 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1
90. * 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2
100. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3

		BD_2									
110.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
120.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
130.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
140.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
150.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
160.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
170.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
180.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
190.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
200.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
210.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
220.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
250.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5
260.	*	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3
270.	*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1
280.	*	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.0
290.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
300.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
310.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
320.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
330.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
340.	*	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
350.	*	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
360.	*	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0

MAX	*	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
DEGR.	*	60	50	60	60	60	60	70	60	60	250

THE HIGHEST CONCENTRATION OF 0.50 PPM OCCURRED AT RECEPTOR REC22.

BD_2a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:49
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_2a
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:49
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
RATE * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
* (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
3 1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
3 2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3 3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
3 4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
3 5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
3 6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
3 7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
3 8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
3 9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
3 10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
3 11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
3 12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
3 13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
3 14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
3 15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
3 16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
3 17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
3 18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
3 19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

					BD_2a						
3	20.	25/Edwards	NB L	*	100	59	3.0	234	1600	9.80	1
3	21.	25/Edwards	EB L	*	100	42	3.0	270	1600	9.80	1
3	22.	25/Edwards	WB L	*	100	42	3.0	36	1600	9.80	1
3	23.	25/Edwards	SB L	*	100	58	3.0	43	1600	9.80	1

RECEPTOR LOCATIONS

RECEPTOR		X	Y	Z
1.	25/25A NW1	16174.6	10144.3	6.0
2.	25/25A NW2	16199.1	10149.0	6.0
3.	25/25A NW3	16223.7	10154.0	6.0
4.	25/25A NW4	16248.3	10158.4	6.0
5.	25/25A NW5	16272.8	10163.0	6.0
6.	25/25A NW6	16297.4	10167.7	6.0
7.	25/25A NW7	16321.9	10172.4	6.0
8.	25/25A NW8	16346.5	10177.1	6.0
9.	25/25A NW9	16371.1	10181.7	6.0
10.	25/25A NW10	16395.6	10186.4	6.0
11.	25/25A NW11	16420.2	10191.1	6.0
12.	25/25A NW12	16444.7	10195.8	6.0
13.	25/25A NW13	16469.3	10200.4	6.0
14.	25/25A NW14	16465.4	10225.1	6.0
15.	25/25A NW15	16454.6	10247.6	6.0
16.	25/25A NW16	16436.1	10267.6	6.0
17.	25/25A NW17	16418.2	10286.6	6.0
18.	25/25A NW18	16400.6	10304.9	6.0
19.	25/25A NW19	16383.2	10323.2	6.0
20.	25/25A NW20	16365.8	10341.5	6.0
21.	25/25A NW21	16348.4	10359.8	6.0
22.	25/25A NW22	16331.1	10377.9	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:37:49

RECEPTOR LOCATIONS

RECEPTOR		X	Y	Z
23.	25/25A NW23	16313.8	10396.1	6.0
24.	25/25A NW24	16296.5	10414.3	6.0
25.	25/25A NW25	16469.3	10200.4	6.0

PAGE 4
JOB: Calverton

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

```
WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR) * REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20
```

[illegible][illegible]

MAX	*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3
DEGR.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90	100	80	80	80	80	90	100	90	90	90	90	90	80	90	90	100	130

PAGE 5
JOB: Calverton

BD_2a

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	* REC21	* REC22	* REC23	* REC24	* REC25
0.	* 0.1	0.1	0.0	0.0	0.1
10.	* 0.1	0.1	0.0	0.0	0.1
20.	* 0.1	0.1	0.0	0.0	0.1
30.	* 0.1	0.1	0.1	0.0	0.1
40.	* 0.1	0.1	0.1	0.0	0.1
50.	* 0.1	0.1	0.1	0.0	0.1
60.	* 0.1	0.1	0.1	0.0	0.1
70.	* 0.1	0.1	0.1	0.0	0.2
80.	* 0.1	0.1	0.1	0.1	0.3
90.	* 0.1	0.1	0.1	0.1	0.4
100.	* 0.1	0.1	0.1	0.1	0.3
110.	* 0.2	0.2	0.2	0.2	0.3
120.	* 0.2	0.2	0.2	0.2	0.2
130.	* 0.1	0.1	0.1	0.1	0.2
140.	* 0.1	0.1	0.1	0.1	0.2
150.	* 0.1	0.1	0.0	0.0	0.2
160.	* 0.1	0.1	0.1	0.0	0.2
170.	* 0.1	0.1	0.1	0.0	0.2
180.	* 0.1	0.1	0.1	0.0	0.2
190.	* 0.1	0.1	0.1	0.0	0.2
200.	* 0.1	0.1	0.1	0.0	0.2
210.	* 0.1	0.0	0.0	0.0	0.2
220.	* 0.0	0.0	0.0	0.0	0.2
230.	* 0.0	0.0	0.0	0.0	0.2
240.	* 0.0	0.0	0.0	0.0	0.3
250.	* 0.0	0.0	0.0	0.0	0.2
260.	* 0.0	0.0	0.0	0.0	0.2
270.	* 0.0	0.0	0.0	0.0	0.1
280.	* 0.0	0.0	0.0	0.0	0.0
290.	* 0.0	0.0	0.0	0.0	0.0
300.	* 0.0	0.0	0.0	0.0	0.0
310.	* 0.0	0.0	0.0	0.0	0.0
320.	* 0.0	0.0	0.0	0.0	0.0
330.	* 0.1	0.0	0.0	0.0	0.1
340.	* 0.1	0.0	0.0	0.0	0.1
350.	* 0.1	0.1	0.0	0.0	0.1
360.	* 0.1	0.1	0.0	0.0	0.1
MAX	* 0.2	0.2	0.2	0.2	0.4
DEGR.	* 110	110	110	110	90

THE HIGHEST CONCENTRATION OF 0.40 PPM OCCURRED AT RECEPTOR REC12.

BD_3
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:57
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_3
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:37:57
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
RATE * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
* (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
3 1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
3 2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3 3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
3 4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
3 5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
3 6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
3 7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
3 8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
3 9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
3 10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
3 11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
3 12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
3 13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
3 14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
3 15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
3 16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
3 17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
3 18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
3 19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3 20. 25/Edwards NB L * 100 59 BD_3 3.0 234 1600 9.80 1
3 21. 25/Edwards EB L * 100 42 3.0 270 1600 9.80 1
3 22. 25/Edwards WB L * 100 42 3.0 36 1600 9.80 1
3 23. 25/Edwards SB L * 100 58 3.0 43 1600 9.80 1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/Burman N1	13332.3	9514.4	6.0
2. 25/Burman N2	13356.5	9520.7	6.0
3. 25/Burman N3	13380.7	9527.1	6.0
4. 25/Burman N4	13404.8	9533.5	6.0
5. 25/Burman N5	13429.0	9539.9	6.0
6. 25/Burman N6	13453.2	9546.3	6.0
7. 25/Burman N7	13477.4	9552.6	6.0
8. 25/Burman N8	13501.5	9559.0	6.0
9. 25/Burman N9	13525.7	9565.4	6.0
10. 25/Burman N10	13549.9	9571.8	6.0
11. 25/Burman N11	13574.1	9578.2	6.0
12. 25/Burman N12	13598.2	9584.5	6.0
13. 25/Burman N13	13622.4	9590.9	6.0
14. 25/Burman N14	13646.4	9598.0	6.0
15. 25/Burman N15	13670.3	9605.1	6.0
16. 25/Burman N16	13694.3	9612.2	6.0
17. 25/Burman N17	13718.3	9619.3	6.0
18. 25/Burman N18	13742.2	9626.4	6.0
19. 25/Burman N19	13766.2	9633.5	6.0
20. 25/Burman N20	13790.2	9640.6	6.0
21. 25/Burman N21	13814.2	9647.7	6.0
22. 25/Burman N22	13837.9	9655.5	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:37:57

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/Burman N23	13862.1	9661.9	6.0
24. 25/Burman N24	13886.1	9669.1	6.0
25. 25/Burman N25	13910.0	9676.2	6.0
26. 25/Burman SE1	13970.6	9604.4	6.0
27. 25/Burman SE2	13946.7	9597.3	6.0
28. 25/Burman SE3	13922.7	9590.2	6.0
29. 25/Burman SE4	13898.7	9583.1	6.0
30. 25/Burman SE5	13874.8	9576.0	6.0
31. 25/Burman SE6	13850.8	9568.9	6.0
32. 25/Burman SE7	13826.8	9561.8	6.0
33. 25/Burman SE8	13802.8	9554.7	6.0
34. 25/Burman SE9	13778.9	9547.6	6.0
35. 25/Burman SE10	13754.9	9540.5	6.0
36. 25/Burman SE11	13730.9	9533.4	6.0
37. 25/Burman SE12	13707.0	9526.3	6.0
38. 25/Burman SE13	13683.0	9519.2	6.0
39. 25/Burman SE14	13688.9	9494.9	6.0
40. 25/Burman SE15	13694.8	9470.6	6.0
41. 25/Burman SE16	13709.7	9446.3	6.0
42. 25/Burman SE17	13706.6	9422.0	6.0
43. 25/Burman SE18	13712.5	9397.7	6.0
44. 25/Burman SE19	13718.4	9373.4	6.0
45. 25/Burman SE20	13724.3	9349.1	6.0
46. 25/Burman SE21	13730.3	9324.8	6.0
47. 25/Burman SE22	13736.2	9300.5	6.0
48. 25/Burman SE23	13742.1	9276.3	6.0
49. 25/Burman SE24	13748.0	9252.0	6.0
50. 25/Burman SE25	13753.9	9227.7	6.0

PAGE 4
JOB: Calverton

BD_3

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
80.	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
90.	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.2
100.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2
110.	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.3	0.2	0.2	0.3
120.	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3
130.	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
140.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
150.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.3	0.3	0.2
160.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.4	0.3
170.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.4
180.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5
190.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4
200.	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
210.	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
220.	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
230.	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2
240.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3
250.	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MAX																	
0.4																	
DEGR.																	
180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350

RUN: Build

.....

WIND ANGLE RANGE: 0.-360.

[illegible]

	MAX	0.4	0.5	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	
DEGR.	260	280	270	270	260	220	240	250	260	260	260	260	260	260	250	250	250	260	270

RUN: Build

.....

WIND ANGLE RANGE: 0.-360.

[illegible]

BD_3a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38: 6
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_3a
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38: 6
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
RATE * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
* (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
3 1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
3 2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3 3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
3 4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
3 5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
3 6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
3 7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
3 8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
3 9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
3 10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
3 11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
3 12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
3 13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
3 14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
3 15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
3 16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
3 17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
3 18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
3 19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

					BD_3a						
3	20.	25/Edwards	NB L	*	100	59	3.0	234	1600	9.80	1
3	21.	25/Edwards	EB L	*	100	42	3.0	270	1600	9.80	1
3	22.	25/Edwards	WB L	*	100	42	3.0	36	1600	9.80	1
3	23.	25/Edwards	SB L	*	100	58	3.0	43	1600	9.80	1

RECEPTOR LOCATIONS

RECEPTOR			X	Y	Z
1.	25/Burman	SW1	13682.6	9207.6	6.0
2.	25/Burman	SW2	13678.7	9231.9	6.0
3.	25/Burman	SW3	13670.3	9242.2	6.0
4.	25/Burman	SW4	13664.9	9280.5	6.0
5.	25/Burman	SW5	13659.0	9304.8	6.0
6.	25/Burman	SW6	13653.1	9329.1	6.0
7.	25/Burman	SW7	13647.2	9353.4	6.0
8.	25/Burman	SW8	13641.2	9377.7	6.0
9.	25/Burman	SW9	13635.3	9402.0	6.0
10.	25/Burman	SW10	13629.4	9426.3	6.0
11.	25/Burman	SW11	13623.5	9450.6	6.0
12.	25/Burman	SW12	13617.6	9474.9	6.0
13.	25/Burman	SW13	13611.7	9499.2	6.0
14.	25/Burman	SW14	13587.5	9482.8	6.0
15.	25/Burman	SW15	13563.4	9486.4	6.0
16.	25/Burman	SW16	13539.2	9490.0	6.0
17.	25/Burman	SW17	13515.0	9493.6	6.0
18.	25/Burman	SW18	13490.8	9467.3	6.0
19.	25/Burman	SW19	13466.7	9460.9	6.0
20.	25/Burman	SW20	13442.5	9454.5	6.0
21.	25/Burman	SW21	13418.3	9448.1	6.0
22.	25/Burman	SW22	13394.2	9441.7	6.0

PAGE 3
JOB: Calverton
RUN: Build

DATE : 6/16/14
TIME : 9:38: 6

RECEPTOR LOCATIONS

RECEPTOR			COORDINATES (FT)		
			X	Y	Z
23.	25/Burman	SW23	13370.0	9435.4	6.0
24.	25/Burman	SW24	13345.8	9429.0	6.0
25.	25/Burman	SW25	13321.6	9422.6	6.0

PAGE 4
JOB: Calverton RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

```
WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16
REC17 REC18 REC19 REC20
```

[illegible][illegible]

MAX	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.3
DEGR.	50	50	60	60	20	10	10	10	20	30	40	60	50	50	50	60	50	

BD_3a

PAGE 5
JOB: Calverton

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	* REC21	* REC22	* REC23	* REC24	* REC25
0.	* 0.2	0.2	0.2	0.2	0.2
10.	* 0.2	0.2	0.2	0.2	0.2
20.	* 0.2	0.2	0.2	0.2	0.2
30.	* 0.2	0.2	0.2	0.2	0.2
40.	* 0.2	0.2	0.2	0.2	0.2
50.	* 0.2	0.2	0.2	0.2	0.2
60.	* 0.3	0.3	0.2	0.2	0.3
70.	* 0.3	0.3	0.3	0.3	0.3
80.	* 0.1	0.1	0.1	0.1	0.1
90.	* 0.1	0.0	0.0	0.0	0.0
100.	* 0.1	0.1	0.0	0.0	0.0
110.	* 0.1	0.0	0.0	0.0	0.0
120.	* 0.0	0.0	0.0	0.0	0.0
130.	* 0.0	0.0	0.0	0.0	0.0
140.	* 0.0	0.0	0.0	0.0	0.0
150.	* 0.0	0.0	0.0	0.0	0.0
160.	* 0.0	0.0	0.0	0.0	0.0
170.	* 0.0	0.0	0.0	0.0	0.0
180.	* 0.0	0.0	0.0	0.0	0.0
190.	* 0.0	0.0	0.0	0.0	0.0
200.	* 0.0	0.0	0.0	0.0	0.0
210.	* 0.0	0.0	0.0	0.0	0.0
220.	* 0.0	0.0	0.0	0.0	0.0
230.	* 0.0	0.0	0.0	0.0	0.0
240.	* 0.0	0.0	0.0	0.0	0.0
250.	* 0.1	0.1	0.1	0.0	0.0
260.	* 0.1	0.1	0.1	0.1	0.1
270.	* 0.2	0.2	0.2	0.2	0.1
280.	* 0.2	0.2	0.2	0.2	0.2
290.	* 0.2	0.2	0.2	0.2	0.2
300.	* 0.2	0.2	0.2	0.2	0.2
310.	* 0.2	0.2	0.2	0.2	0.2
320.	* 0.2	0.2	0.2	0.2	0.2
330.	* 0.2	0.2	0.2	0.2	0.2
340.	* 0.2	0.2	0.2	0.2	0.2
350.	* 0.2	0.2	0.2	0.2	0.2
360.	* 0.2	0.2	0.2	0.2	0.2
MAX	* 0.3	0.3	0.3	0.3	0.3
DEGR.	* 60	60	70	70	60

THE HIGHEST CONCENTRATION OF 0.50 PPM OCCURRED AT RECEPTOR REC13.

BD_4
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38:28
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_4
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38:28
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
RATE * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
* (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
3 1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
3 2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3 3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
3 4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
3 5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
3 6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
3 7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
3 8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
3 9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
3 10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
3 11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
3 12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
3 13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
3 14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
3 15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
3 16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
3 17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
3 18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
3 19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3 20. 25/Edwards NB L * 100 59 BD_4 3.0 234 1600 9.80 1
3 21. 25/Edwards EB L * 100 42 3.0 270 1600 9.80 1
3 22. 25/Edwards WB L * 100 42 3.0 36 1600 9.80 1
3 23. 25/Edwards SB L * 100 58 3.0 43 1600 9.80 1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/Wading NE1	4584.8	5438.1	6.0
2. 25/Wading NE2	4588.0	5413.3	6.0
3. 25/Wading NE3	4591.1	5388.5	6.0
4. 25/Wading NE4	4594.2	5363.7	6.0
5. 25/Wading NE5	4597.3	5338.9	6.0
6. 25/Wading NE6	4600.4	5314.1	6.0
7. 25/Wading NE7	4603.5	5289.3	6.0
8. 25/Wading NE8	4606.6	5264.5	6.0
9. 25/Wading NE9	4609.7	5239.7	6.0
10. 25/Wading NE10	4612.8	5214.9	6.0
11. 25/Wading NE11	4615.9	5190.1	6.0
12. 25/Wading NE12	4619.0	5165.3	6.0
13. 25/Wading NE13	4622.0	5140.4	6.0
14. 25/Wading NE14	4624.1	5115.5	6.0
15. 25/Wading NE15	4626.1	5170.5	6.0
16. 25/Wading NE16	4628.1	5185.6	6.0
17. 25/Wading NE17	4702.1	5200.6	6.0
18. 25/Wading NE18	4722.0	5215.6	6.0
19. 25/Wading NE19	4742.0	5230.7	6.0
20. 25/Wading NE20	4762.0	5245.7	6.0
21. 25/Wading NE21	4782.0	5260.7	6.0
22. 25/Wading NE22	4802.0	5275.7	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:38:28

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/Wading NE23	4821.9	5290.7	6.0
24. 25/Wading NE24	4841.9	5305.8	6.0
25. 25/Wading NE25	4861.9	5320.8	6.0
26. 25/Wading SE1	4883.6	5229.5	6.0
27. 25/Wading SE2	4863.6	5214.5	6.0
28. 25/Wading SE3	4843.7	5199.5	6.0
29. 25/Wading SE4	4823.7	5184.5	6.0
30. 25/Wading SE5	4803.7	5169.4	6.0
31. 25/Wading SE6	4783.7	5154.4	6.0
32. 25/Wading SE7	4763.7	5139.4	6.0
33. 25/Wading SE8	4743.8	5124.3	6.0
34. 25/Wading SE9	4723.8	5109.3	6.0
35. 25/Wading SE10	4703.8	5094.3	6.0
36. 25/Wading SE11	4683.8	5079.3	6.0
37. 25/Wading SE12	4663.9	5064.2	6.0
38. 25/Wading SE13	4643.9	5049.2	6.0
39. 25/Wading SE14	4621.1	5025.2	6.0
40. 25/Wading SE15	4601.3	5001.3	6.0
41. 25/Wading SE16	4581.5	4977.4	6.0
42. 25/Wading SE17	4561.7	4953.4	6.0
43. 25/Wading SE18	4541.9	4929.5	6.0
44. 25/Wading SE19	4522.1	4905.5	6.0
45. 25/Wading SE20	4502.3	4881.6	6.0
46. 25/Wading SE21	4482.5	4857.7	6.0
47. 25/Wading SE22	4462.7	4833.7	6.0
48. 25/Wading SE23	4442.9	4809.8	6.0
49. 25/Wading SE24	4423.0	4785.8	6.0
50. 25/Wading SE25	4403.2	4761.9	6.0

PAGE 4
JOB: Calverton

BD_4

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
70.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
80.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2
90.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2
100.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2
110.0	0.2	0.2	0.2	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2
120.0	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.2
130.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3
140.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
150.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
160.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
170.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
180.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.3
190.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
200.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3
210.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3
220.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2
230.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2
240.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
250.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0
260.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0
270.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.0
280.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0
290.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0

```

290. * 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.0 0.0
0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
300. * 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.0
310. * 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
320. * 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
330. * 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
340. * 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.0 0.0
350. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
360. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0

```

```

-----*-----
MAX * 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.4 0.4 0.3 0.4
0.3 0.3 0.3 0.3
DEGR. * 170 140 130 120 200 200 200 190 180 200 190 190 220 180 90 210
170 210 220 220

```

PAGE 5
JOB: Calverton
RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

```

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC21 REC22 REC23 REC24 REC25 REC26 REC27 REC28 REC29 REC30 REC31 REC32 REC33 REC34 REC35 REC36
REC37 REC38 REC39 REC40

```

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-----*-----
0. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
10. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
20. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
30. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2
40. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2
50. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
60. * 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1
0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
70. * 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
80. * 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
90. * 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
100. * 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
110. * 0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
120. * 0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
130. * 0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
140. * 0.2 0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
150. * 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
160. * 0.2 0.2 0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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BD_4
0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
170. * 0.2 0.1 0.1 0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
180. * 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0
190. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
200. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
210. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
220. * 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
230. * 0.2 0.3 0.3 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.2 0.2
240. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.2 0.2
0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.2
250. * 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.2
0.4 0.3 0.3 0.3 0.3 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
260. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3
0.2 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
270. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.2
0.2 0.2 0.2 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
280. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.3 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
290. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.2 0.3 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
300. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
310. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3
0.3 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3
320. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3
0.3 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
330. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.3 0.2 0.2 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
340. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.3 0.2 0.2 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
350. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
360. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.1

```

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-----*-----
MAX * 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3
0.4 0.3 0.3 0.3
DEGR. * 80 230 130 150 190 240 240 240 240 240 250 250 250 260 310
250 250 240 250

```

PAGE 6
JOB: Calverton
RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

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WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC41 REC42 REC43 REC44 REC45 REC46 REC47 REC48 REC49 REC50
-----*-----
0. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
10. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
20. * 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0
30. * 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
40. * 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
50. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
60. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
70. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
80. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
90. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
100. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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BD_4a
CAL3QHC: LINE SOURCE DISPERSION MODEL - VERSION 2.0 Dated 95221
PAGE 1
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38:35
The MODE flag has been set to C for calculating CO averages.
SITE & METEOROLOGICAL VARIABLES
VS = 0.0 CM/S VD = 0.0 CM/S Z0 = 175. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB = 0.0 PPM
LINK VARIABLES
LINK DESCRIPTION * LINK COORDINATES (FT) * LENGTH BRG TYPE VPH EF
H W V/C QUEUE * X1 Y1 X2 Y2 * (FT) (DEG)
(G/MI) (FT) (FT) (VEH)
1. 25/Wading EB LTR * 4564.0 5039.0 4535.1 5018.0 * 36. 234. AG 25. 100.0
1.0 30.0 0.26 1.0
2. 25/Wading SB LTR * 4586.5 5120.0 4579.7 5182.8 * 63. 354. AG 36. 100.0
1.0 20.0 0.52 3.2
3. 25/Wading WB LTR * 4635.5 5114.0 4713.6 5173.7 * 98. 53. AG 25. 100.0
1.0 30.0 0.72 5.0
4. 25/Wading NB LTR * 4623.5 5024.5 4642.3 4964.8 * 63. 162. AG 36. 100.0
1.0 20.0 0.52 3.2
5. 25/Burman EB TR * 13587.0 9534.5 13481.2 9503.7 * 110. 254. AG 19. 100.0
1.0 20.0 0.62 5.6
6. 25/Burman NB LR * 13656.0 9491.5 14376.1 6883.2 * 2706. 165. AG 33. 100.0
1.0 20.0 1.46 137.5
7. 25/Burman WB LT * 13668.0 9575.0 13774.2 9606.0 * 111. 74. AG 19. 100.0
1.0 20.0 0.62 5.6
8. 25/25A EB TR * 16490.0 10154.0 7275.6 8525.4 * 9357. 260. AG 17. 100.0
1.0 10.0 2.79 475.3
9. 25/25A SB TR * 16527.8 10204.5 16512.7 10221.0 * 22. 318. AG 37. 100.0
1.0 20.0 0.16 1.1
10. 25/25A WB TR * 16715.5 10219.0 19680.6 10637.1 * 2994. 82. AG 34. 100.0
1.0 20.0 1.54 152.1
11. 25/Edwards EB TR * 28529.0 10104.5 25906.6 10513.9 * 2654. 279. AG 27. 100.0
1.0 20.0 1.33 134.8
12. 25/Edwards SB TR * 28558.3 10158.3 28545.5 10263.7 * 106. 353. AG 19. 100.0
1.0 10.0 0.70 5.4
13. 25/Edwards WB TTR * 28610.5 10104.0 28805.2 10072.5 * 197. 99. AG 27. 100.0
1.0 20.0 0.87 10.0
14. 25/Edwards NB TR * 28576.0 10049.5 28585.2 9966.1 * 84. 174. AG 19. 100.0
1.0 10.0 0.58 4.3
15. 25/25A EB L * 16487.5 10166.0 16411.9 10153.0 * 77. 260. AG 15. 100.0
1.0 10.0 0.40 3.9
16. 25/25A SB L * 16542.1 10221.6 16477.9 10289.4 * 93. 317. AG 13. 100.0
1.0 10.0 0.47 4.7
17. 25/25A WB L * 16718.9 10194.2 16742.1 10197.5 * 23. 82. AG 15. 100.0
1.0 10.0 0.12 1.2
18. 25/25A NB LL * 16563.5 10123.7 16578.4 10052.9 * 72. 168. AG 37. 100.0
1.0 20.0 0.47 3.7
19. 25/25A NB TR * 16589.0 10128.1 16614.1 10003.8 * 127. 169. AG 38. 100.0
1.0 20.0 0.81 6.4
20. 25/Edwards NB L * 28562.8 10048.1 28569.4 9972.9 * 75. 175. AG 16. 100.0
1.0 10.0 0.41 3.8
21. 25/Edwards EB L * 28527.8 10121.5 28466.8 10132.5 * 62. 280. AG 11. 100.0
1.0 10.0 0.32 3.2
22. 25/Edwards WB L * 28609.4 10084.7 28617.5 10083.4 * 8. 100. AG 11. 100.0
1.0 10.0 0.04 0.4
23. 25/Edwards SB L * 28572.0 10157.8 28570.8 10171.4 * 14. 355. AG 15. 100.0
1.0 10.0 0.07 0.7
24. Rt25/Wading North * 4598.5 5080.0 4556.0 5419.0 * 342. 353. AG 1218. 2.4
1.0 42.0
25. Rt25/Wading East * 4606.0 5074.5 4874.5 5276.5 * 336. 53. AG 2904. 2.4
1.0 66.0
26. Rt25/Wading South * 4601.5 5082.5 4702.5 4746.5 * 351. 163. AG 1048. 2.4
1.0 42.0
27. Rt25/Wading West * 4599.5 5082.5 4292.0 4852.5 * 384. 233. AG 2390. 2.4
1.0 66.0

BD_4a
28. 25/Burman East * 13634.0 9549.5 14044.0 9671.0 * 428. 73. AG 2844. 2.4
1.0 66.0
29. 25/Burman South * 13639.0 9543.5 13719.0 9214.5 * 339. 166. AG 1804. 3.7
1.0 54.0
30. 25/Burman West * 13634.0 9549.5 13219.0 9440.0 * 429. 255. AG 2926. 2.4
1.0 66.0
31. 25/25A North * 16548.0 10195.0 16330.5 10423.5 * 315. 316. AG 1570. 2.4
1.0 42.0
32. 25/25A North-RT * 16489.5 10169.0 16472.5 10275.5 * 108. 351. AG 84. 2.4
1.0 30.0
33. 25/25A East * 16549.5 10187.5 16946.0 10241.5 * 400. 82. AG 3598. 2.4
1.0 54.0
34. 25/25A West * 16549.5 10178.0 16079.0 10088.5 * 479. 259. AG 2831. 2.4
1.0 54.0
35. 25/Edwards North * 28574.0 10092.5 28539.0 10433.5 * 343. 354. AG 823. 2.4
1.0 42.0
36. 25/Edwards East * 28569.5 10103.0 28950.5 10039.5 * 386. 99. AG 2926. 2.4
1.0 54.0
37. 25/Edwards South * 28563.5 10094.0 28604.5 9727.0 * 369. 174. AG 905. 2.4
1.0 42.0
38. 25/Edwards West * 28574.0 10103.0 28153.5 10175.0 * 427. 280. AG 3538. 2.4
1.0 54.0
39. 25/25A South * 16554.9 10187.8 16640.5 9806.5 * 391. 167. AG 620. 3.7
1.0 78.0

PAGE 2
JOB: Calverton
RUN: Build
DATE : 6/16/14
TIME : 9:38:35
ADDITIONAL QUEUE LINK PARAMETERS
LINK DESCRIPTION * CYCLE RED CLEARANCE APPROACH SATURATION IDLE SIGNAL
ARRIVAL * LENGTH TIME LOST TIME VOL FLOW RATE EM FAC TYPE
RATE * (SEC) (SEC) (SEC) (VPH) (VPH) (gm/hr)
1. 25/Wading EB LTR * 80 25 3.0 784 1600 9.80 1
2. 25/Wading SB LTR * 80 55 3.0 420 1600 9.80 1
3. 25/Wading WB LTR * 80 25 3.0 2159 1600 9.80 1
4. 25/Wading NB LTR * 80 55 3.0 417 1600 9.80 1
5. 25/Burman EB TR * 95 35 3.0 1153 1600 9.80 1
6. 25/Burman NB LR * 95 60 3.0 1478 1600 9.80 1
7. 25/Burman WB LT * 95 35 3.0 1156 1600 9.80 1
8. 25/25A EB TR * 95 61 3.0 1362 1600 9.80 1
9. 25/25A SB TR * 95 67 3.0 122 1600 9.80 1
10. 25/25A WB TR * 95 61 3.0 1501 1600 9.80 1
11. 25/Edwards EB TR * 100 52 3.0 1828 1600 9.80 1
12. 25/Edwards SB TR * 100 71 3.0 270 1600 9.80 1
13. 25/Edwards WB TTR * 100 52 3.0 1202 1600 9.80 1
14. 25/Edwards NB TR * 100 72 3.0 213 1600 9.80 1
15. 25/25A EB L * 100 57 3.0 246 1600 9.80 1
16. 25/25A SB L * 100 48 3.0 356 1600 9.80 1
17. 25/25A WB L * 100 57 3.0 75 1600 9.80 1
18. 25/25A NB LL * 100 70 3.0 379 1600 9.80 1
19. 25/25A NB TR * 100 73 3.0 568 1600 9.80 1

3 20. 25/Edwards NB L * 100 59 BD_4a 3.0 234 1600 9.80 1
3 21. 25/Edwards EB L * 100 42 3.0 270 1600 9.80 1
3 22. 25/Edwards WB L * 100 42 3.0 36 1600 9.80 1
3 23. 25/Edwards SB L * 100 58 3.0 43 1600 9.80 1

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
1. 25/Wading SW1	4674.2	4732.8	6.0
2. 25/Wading SW2	4667.1	4756.8	6.0
3. 25/Wading SW3	4659.9	4780.7	6.0
4. 25/Wading SW4	4652.6	4804.6	6.0
5. 25/Wading SW5	4645.5	4828.6	6.0
6. 25/Wading SW6	4638.3	4852.5	6.0
7. 25/Wading SW7	4631.1	4876.5	6.0
8. 25/Wading SW8	4624.2	4900.5	6.0
9. 25/Wading SW9	4616.7	4924.4	6.0
10. 25/Wading SW10	4609.5	4948.3	6.0
11. 25/Wading SW11	4602.3	4972.2	6.0
12. 25/Wading SW12	4595.1	4996.2	6.0
13. 25/Wading SW13	4587.9	5020.1	6.0
14. 25/Wading SW14	4580.7	5044.0	6.0
15. 25/Wading SW15	4573.5	5067.9	6.0
16. 25/Wading SW16	4566.3	5091.8	6.0
17. 25/Wading SW17	4559.1	5115.7	6.0
18. 25/Wading SW18	4551.9	5139.6	6.0
19. 25/Wading SW19	4544.7	5163.5	6.0
20. 25/Wading SW20	4537.5	5187.4	6.0
21. 25/Wading SW21	4530.3	5211.3	6.0
22. 25/Wading SW22	4523.1	5235.2	6.0

PAGE 3
JOB: Calverton

RUN: Build

DATE : 6/16/14
TIME : 9:38:35

RECEPTOR LOCATIONS

RECEPTOR	X	Y	Z
23. 25/Wading SW23	4387.7	4879.4	6.0
24. 25/Wading SW24	4380.7	4855.4	6.0
25. 25/Wading SW25	4373.6	4831.4	6.0
26. 25/Wading NW1	4323.4	4929.6	6.0
27. 25/Wading NW2	4343.4	4944.6	6.0
28. 25/Wading NW3	4363.4	4959.6	6.0
29. 25/Wading NW4	4383.4	4974.6	6.0
30. 25/Wading NW5	4403.4	4989.6	6.0
31. 25/Wading NW6	4423.4	5004.6	6.0
32. 25/Wading NW7	4443.5	5019.5	6.0
33. 25/Wading NW8	4463.5	5034.5	6.0
34. 25/Wading NW9	4483.5	5049.4	6.0
35. 25/Wading NW10	4503.5	5064.4	6.0
36. 25/Wading NW11	4523.5	5079.4	6.0
37. 25/Wading NW12	4543.6	5094.4	6.0
38. 25/Wading NW13	4563.6	5109.3	6.0
39. 25/Wading NW14	4583.6	5124.3	6.0
40. 25/Wading NW15	4603.6	5139.3	6.0
41. 25/Wading NW16	4623.6	5154.3	6.0
42. 25/Wading NW17	4643.6	5169.3	6.0
43. 25/Wading NW18	4663.6	5184.3	6.0
44. 25/Wading NW19	4683.6	5199.3	6.0
45. 25/Wading NW20	4703.6	5214.3	6.0
46. 25/Wading NW21	4723.6	5229.3	6.0
47. 25/Wading NW22	4743.6	5244.3	6.0
48. 25/Wading NW23	4763.6	5259.3	6.0
49. 25/Wading NW24	4783.6	5274.3	6.0
50. 25/Wading NW25	4803.6	5289.3	6.0

PAGE 4
JOB: Calverton
RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to the maximum concentration, only the first angle, of the angles with same maximum concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND ANGLE (DEGR)	CONCENTRATION (PPM)	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16
0.	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.3	0.2
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.2	0.3
10.	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.2	0.3
20.	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2
30.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.2	0.2
40.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
50.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.3	0.2
60.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1
70.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0
80.	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0
90.	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0
100.	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.0
110.	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.0
120.	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0
130.	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0
140.	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
150.	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
160.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
170.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
240.	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1
250.	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
260.	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2
270.	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
280.	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BD_4a
290. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
300. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
310. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
320. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
330. * 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
340. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
350. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
360. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1

MAX * 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3
DEGR. * 0 0 0 10 10 10 0 0 0 10 20 0 0 10 40 0 30
30 0 40 40

PAGE 5
JOB: Calverton

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC21 REC22 REC23 REC24 REC25 REC26 REC27 REC28 REC29 REC30 REC31 REC32 REC33 REC34 REC35 REC36
REC37 REC38 REC39 REC40

0. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
10. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.1 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
20. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
30. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
40. * 0.3 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
0.2 0.2 0.2 0.1 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1
50. * 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.2
0.2 0.3 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2
60. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1
0.2 0.3 0.3 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1
70. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.2 0.2 0.3
0.3 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
80. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.2
0.4 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
90. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.3 0.4 0.3 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
100. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.3 0.3 0.3 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1
110. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1
0.2 0.2 0.3 0.3 0.3 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
120. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.3 0.2 0.3 0.3 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
130. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.3 0.2 0.3 0.3 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
140. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.3 0.2 0.3 0.3 0.3 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
150. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.2 0.3 0.3 0.3 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
160. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1

BD_4a
0.1 0.2 0.2 0.3 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
170. * 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
180. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
190. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2
200. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2
210. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.2 0.2
220. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2
0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
230. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1
240. * 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
250. * 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
260. * 0.2 0.2 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
270. * 0.2 0.2 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
280. * 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
290. * 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
300. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
310. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
320. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
330. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
340. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
350. * 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
360. * 0.2 0.2 0.2 0.2 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

MAX * 0.3 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.3
0.4 0.3 0.3 0 0 0 60 60 60 70 70 70 70 80 80 60 70
DEGR. * 40 0 0 0 0 0 60 60 60 70 70 70 70 80 80 60 70
80 50 90 70

PAGE 6
JOB: Calverton

RUN: Build

MODEL RESULTS

REMARKS : In search of the angle corresponding to
the maximum concentration, only the first
angle, of the angles with same maximum
concentrations, is indicated as maximum.

WIND ANGLE RANGE: 0.-360.

WIND * CONCENTRATION
ANGLE * (PPM)
(DEGR)* REC41 REC42 REC43 REC44 REC45 REC46 REC47 REC48 REC49 REC50

0. * 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0
10. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0
20. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0
30. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
40. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
50. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
60. * 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
70. * 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0
80. * 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
90. * 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1
100. * 0.3 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1

		BD_4a										
110.	*	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
120.	*	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
130.	*	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
140.	*	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
150.	*	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
160.	*	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
170.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
180.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
190.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
200.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
210.	*	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220.	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
260.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
350.	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.	*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0

MAX	*	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
DEGR.	*	100	140	90	90	100	110	120	120	140	80	

THE HIGHEST CONCENTRATION OF 0.40 PPM OCCURRED AT RECEPTOR REC11.



Engineering, Surveying and Landscape Architecture, P.C.

Attachment C

Description

Cal3QHC Intersection Figures

Route 25 at Edwards Avenue



Route 25 at Route 25A



Route 25 at Wading River Boulevard





Engineering, Surveying and Landscape Architecture, P.C.

Attachment D

Description

Microscale Results

28409.00 Calverton Re-Use Plan - Maximum Values

Period	Factor
1-Hour	3.1
8-hour	2.2
Persistence Factor	0.7

Intersection	Receptor	Existing		No-Build		Build	
		1-Hour	8-Hour	1-Hour	8-Hour	1-Hour	8-Hour
Rt 25/ Edwards	NE	3.5	2.5	3.4	2.4	3.6	2.6
	SE	3.5	2.5	3.4	2.4	3.6	2.6
	SW	3.6	2.6	3.3	2.3	3.6	2.6
	NW	3.6	2.6	3.3	2.3	3.5	2.5
Rt 25/Rt 25A	NE	3.6	2.6	3.4	2.4	3.6	2.6
	S	3.5	2.5	3.4	2.4	3.6	2.6
	NW	3.5	2.5	3.4	2.4	3.5	2.5
Rt 25/ Burman Blvd	N	3.4	2.4	3.3	2.3	3.6	2.6
	SE	3.3	2.3	3.3	2.3	3.6	2.6
	SW	3.3	2.3	3.3	2.3	3.6	2.6
Rt 25/ Wading River Boulevard	NE	3.5	2.5	3.4	2.4	3.5	2.5
	SE	3.6	2.6	3.3	2.3	3.5	2.5
	SW	3.5	2.5	3.3	2.3	3.5	2.5
	NW	3.6	2.6	3.4	2.4	3.5	2.5

Period	Factor
1-Hour	3.1
8-hour	2.2
Persistence Factor	0.7

Intersection	Receptor	Number	1-Hour Raw			Existing		No-Build		Build	
			Existing	No-Build	Build	1-Hour	8-Hour	1-Hour	8-Hour	1-Hour	8-Hour
Rt 25/ Edwards Ave	NE	1	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	2	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	3	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	4	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	5	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	6	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	7	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	8	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	NE	9	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	NE	10	0.3	0.1	0.3	3.4	2.4	3.2	2.3	3.4	2.4
	NE	11	0.3	0.1	0.3	3.4	2.4	3.2	2.3	3.4	2.4
	NE	12	0.4	0.1	0.4	3.5	2.5	3.2	2.3	3.5	2.5
	NE	13	0.4	0.3	0.5	3.5	2.5	3.4	2.4	3.6	2.6
	NE	14	0.4	0.2	0.5	3.5	2.5	3.3	2.3	3.6	2.6
	NE	15	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	NE	16	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	NE	17	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	NE	18	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	NE	19	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	NE	20	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	21	0.3	0.2	0.5	3.4	2.4	3.3	2.3	3.6	2.6
	NE	22	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	23	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	24	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NE	25	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
Rt 25/ Edwards Ave	SE	1	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	2	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	3	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	4	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SE	5	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	6	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	7	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	8	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SE	9	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SE	10	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SE	11	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SE	12	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SE	13	0.4	0.2	0.5	3.5	2.5	3.3	2.3	3.6	2.6
	SE	14	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	SE	15	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	16	0.3	0.3	0.2	3.4	2.4	3.4	2.4	3.3	2.3
	SE	17	0.3	0.3	0.2	3.4	2.4	3.4	2.4	3.3	2.3
	SE	18	0.3	0.3	0.2	3.4	2.4	3.4	2.4	3.3	2.3
	SE	19	0.3	0.3	0.2	3.4	2.4	3.4	2.4	3.3	2.3
	SE	20	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	SE	21	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SE	22	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	23	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	24	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	25	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
Rt 25/ Edwards Ave	SW	1	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SW	2	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SW	3	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	4	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	5	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	6	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	SW	7	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	SW	8	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	SW	9	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	SW	10	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	SW	11	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SW	12	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SW	13	0.5	0.2	0.4	3.6	2.6	3.3	2.3	3.5	2.5
	SW	14	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	15	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	16	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	17	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	18	0.4	0.2	0.5	3.5	2.5	3.3	2.3	3.6	2.6
	SW	19	0.3	0.2	0.5	3.4	2.4	3.3	2.3	3.6	2.6
	SW	20	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	21	0.3	0.2	0.5	3.4	2.4	3.3	2.3	3.6	2.6
	SW	22	0.3	0.2	0.5	3.4	2.4	3.3	2.3	3.6	2.6
	SW	23	0.2	0.2	0.5	3.3	2.3	3.3	2.3	3.6	2.6
	SW	24	0.2	0.2	0.5	3.3	2.3	3.3	2.3	3.6	2.6
	SW	25	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
Rt 25/ Edwards Ave	NW	1	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	NW	2	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	NW	3	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	NW	4	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	NW	5	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	6	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	7	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	8	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	9	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	10	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	11	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	12	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	13	0.5	0.2	0.4	3.6	2.6	3.3	2.3	3.5	2.5
	NW	14	0.4	0.1	0.3	3.5	2.5	3.2	2.3	3.4	2.4
	NW	15	0.3	0.1	0.3	3.4	2.4	3.2	2.3	3.4	2.4
	NW	16	0.3	0.1	0.3	3.4	2.4	3.2	2.3	3.4	2.4
	NW	17	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	NW	18	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	19	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	20	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	21	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	22	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	23	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NW	24	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NW	25	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5

Intersection	Receptor	Number	1-Hour Raw			Existing		No-Build		Build	
			Existing	No-Build	Build	1-Hour	8-Hour	1-Hour	8-Hour	1-Hour	8-Hour
Rt 25/ Rt 25A	NE	1	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	2	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	3	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	4	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	5	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	6	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	7	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	NE	8	0.3	0.1	0.2	3.4	2.4	3.2	2.3	3.3	2.3
	NE	9	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	NE	10	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NE	11	0.5	0.3	0.3	3.6	2.6	3.4	2.4	3.4	2.4
	NE	12	0.5	0.3	0.4	3.6	2.6	3.4	2.4	3.5	2.5
	NE	13	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NE	14	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	15	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	16	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	17	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	18	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NE	19	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NE	20	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NE	21	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NE	22	0.4	0.3	0.5	3.5	2.5	3.4	2.4	3.6	2.6
	NE	23	0.3	0.3	0.5	3.4	2.4	3.4	2.4	3.6	2.6
	NE	24	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	25	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
S	S	1	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	2	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	3	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	4	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	5	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	6	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	7	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	8	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	9	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	S	10	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	S	11	0.4	0.2	0.5	3.5	2.5	3.3	2.3	3.6	2.6
	S	12	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	13	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	S	14	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	15	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	16	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	S	17	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	S	18	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	S	19	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	S	20	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	S	21	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	S	22	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	S	23	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	S	24	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	S	25	0.3	0.3	0.5	3.4	2.4	3.4	2.4	3.6	2.6
NW	NW	1	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	NW	2	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	NW	3	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	NW	4	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	NW	5	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	6	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	7	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	8	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	9	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	10	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	11	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	12	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NW	13	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5
	NW	14	0.4	0.3	0.3	3.5	2.5	3.4	2.4	3.4	2.4
	NW	15	0.4	0.3	0.3	3.5	2.5	3.4	2.4	3.4	2.4
	NW	16	0.3	0.3	0.3	3.4	2.4	3.4	2.4	3.4	2.4
	NW	17	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	NW	18	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	NW	19	0.2	0.2	0.2	3.3	2.3	3.3	2.3	3.3	2.3
	NW	20	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	21	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	22	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	23	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	24	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	25	0.4	0.3	0.4	3.5	2.5	3.4	2.4	3.5	2.5

Intersection	Receptor	Number	1-Hour Raw			Existing		No-Build		Build	
			Existing	No-Build	Build	1-Hour	8-Hour	1-Hour	8-Hour	1-Hour	8-Hour
Rt 25/Burman Blvd	N	1	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	2	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	3	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	4	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	5	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	6	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	7	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	N	8	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	N	9	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	N	10	0.2	0.1	0.4	3.3	2.3	3.2	2.3	3.5	2.5
	N	11	0.2	0.1	0.5	3.3	2.3	3.2	2.3	3.6	2.6
	N	12	0.2	0.1	0.5	3.3	2.3	3.2	2.3	3.6	2.6
	N	13	0.2	0.1	0.5	3.3	2.3	3.2	2.3	3.6	2.6
	N	14	0.2	0.2	0.5	3.3	2.3	3.3	2.3	3.6	2.6
	N	15	0.3	0.2	0.5	3.4	2.4	3.3	2.3	3.6	2.6
	N	16	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	N	17	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	N	18	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	N	19	0.1	0.1	0.4	3.2	2.3	3.2	2.3	3.5	2.5
	N	20	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	21	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	22	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	23	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	24	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	N	25	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
Rt 25/Burman Blvd	SE	1	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	2	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	3	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	4	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	5	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	6	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	7	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	8	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	9	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SE	10	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	11	0.2	0.1	0.4	3.3	2.3	3.2	2.3	3.5	2.5
	SE	12	0.2	0.1	0.4	3.3	2.3	3.2	2.3	3.5	2.5
	SE	13	0.2	0.2	0.5	3.3	2.3	3.3	2.3	3.6	2.6
	SE	14	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	SE	15	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	SE	16	0.1	0.2	0.4	3.2	2.3	3.3	2.3	3.5	2.5
	SE	17	0	0.2	0.4	3.1	2.2	3.3	2.3	3.5	2.5
	SE	18	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	19	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	20	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	21	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	22	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	23	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	24	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SE	25	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
Rt 25/Burman Blvd	SW	1	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	2	0	0.1	0.3	3.1	2.2	3.2	2.3	3.4	2.4
	SW	3	0	0.1	0.3	3.1	2.2	3.2	2.3	3.4	2.4
	SW	4	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	5	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	6	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	7	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	8	0	0.1	0.4	3.1	2.2	3.2	2.3	3.5	2.5
	SW	9	0	0.2	0.4	3.1	2.2	3.3	2.3	3.5	2.5
	SW	10	0.1	0.2	0.4	3.2	2.3	3.3	2.3	3.5	2.5
	SW	11	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	SW	12	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	SW	13	0.2	0.2	0.5	3.3	2.3	3.3	2.3	3.6	2.6
	SW	14	0.2	0.1	0.4	3.3	2.3	3.2	2.3	3.5	2.5
	SW	15	0.2	0.1	0.4	3.3	2.3	3.2	2.3	3.5	2.5
	SW	16	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SW	17	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	18	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	19	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	20	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	21	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	22	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	23	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	24	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SW	25	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4

Intersection	Receptor	Number	1-Hour Raw			Existing		No-Build		Build	
			Existing	No-Build	Build	1-Hour	8-Hour	1-Hour	8-Hour	1-Hour	8-Hour
Rt 25/ Wading River Road	NE	1	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NE	2	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NE	3	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NE	4	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	NE	5	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	6	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	7	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	8	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NE	9	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	NE	10	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NE	11	0.4	0.3	0.3	3.5	2.5	3.4	2.4	3.4	2.4
	NE	12	0.4	0.3	0.3	3.5	2.5	3.4	2.4	3.4	2.4
	NE	13	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	14	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	NE	15	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NE	16	0.2	0.2	0.4	3.3	2.3	3.3	2.3	3.5	2.5
	NE	17	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NE	18	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NE	19	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NE	20	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NE	21	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	22	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	NE	23	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	24	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NE	25	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
SE	SE	1	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	2	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	3	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	4	0.1	0.1	0.3	3.2	2.3	3.2	2.3	3.4	2.4
	SE	5	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SE	6	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SE	7	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	8	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	9	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SE	10	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	11	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	12	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SE	13	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	14	0.5	0.2	0.3	3.6	2.6	3.3	2.3	3.4	2.4
	SE	15	0.5	0.2	0.3	3.6	2.6	3.3	2.3	3.4	2.4
	SE	16	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SE	17	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	SE	18	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SE	19	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SE	20	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SE	21	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SE	22	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SE	23	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SE	24	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SE	25	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
SW	SW	1	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SW	2	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3
	SW	3	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	4	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	5	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	6	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	SW	7	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	8	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	9	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	10	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SW	11	0.4	0.2	0.4	3.5	2.5	3.3	2.3	3.5	2.5
	SW	12	0.4	0.1	0.4	3.5	2.5	3.2	2.3	3.5	2.5
	SW	13	0.3	0.2	0.4	3.4	2.4	3.3	2.3	3.5	2.5
	SW	14	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	SW	15	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SW	16	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	SW	17	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	18	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	19	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	20	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	21	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	SW	22	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	23	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	24	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	SW	25	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
NW	NW	1	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	2	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	3	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	4	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	5	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	6	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	7	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	8	0.2	0.1	0.3	3.3	2.3	3.2	2.3	3.4	2.4
	NW	9	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	10	0.3	0.2	0.2	3.4	2.4	3.3	2.3	3.3	2.3
	NW	11	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NW	12	0.3	0.1	0.4	3.4	2.4	3.2	2.3	3.5	2.5
	NW	13	0.4	0.2	0.3	3.5	2.5	3.3	2.3	3.4	2.4
	NW	14	0.5	0.3	0.4	3.6	2.6	3.4	2.4	3.5	2.5
	NW	15	0.5	0.2	0.3	3.6	2.6	3.3	2.3	3.4	2.4
	NW	16	0.3	0.2	0.3	3.4	2.4	3.3	2.3	3.4	2.4
	NW	17	0.2	0.2	0.3	3.3	2.3	3.3	2.3	3.4	2.4
	NW	18	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	19	0.2	0.1	0.2	3.3	2.3	3.2	2.3	3.3	2.3
	NW	20	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	21	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	22	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	23	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	24	0.1	0.1	0.2	3.2	2.3	3.2	2.3	3.3	2.3
	NW	25	0.1	0.1	0.1	3.2	2.3	3.2	2.3	3.2	2.3



Engineering, Surveying and Landscape Architecture, P.C.

Attachment E

Description

Emission Rates

MOVES CO Emission Factors Suffolk Country (Calverton Project)

2013										
movesRunId	yearId	monthId	dayId	hourId	linkId	pollutant		GramsPerVehMile	GramsPerVehHour	Speeds
1	2013	1	1	5	18	10	CO		37.08891006	Idle
1	2013	1	1	5	18	110	CO	8.910426376		10
1	2013	1	1	5	18	115	CO	7.637164198		15
1	2013	1	1	5	18	120	CO	6.775122016		20
1	2013	1	1	5	18	125	CO	5.821709358		25
1	2013	1	1	5	18	130	CO	5.342445267		30
1	2013	1	1	5	18	135	CO	4.871640453		35
1	2013	1	1	5	18	140	CO	4.516069272		40
1	2013	1	1	5	18	145	CO	4.335560303		45
1	2013	1	1	5	18	150	CO	4.238579649		50
1	2013	1	1	5	18	155	CO	4.226517644		55
1	2013	1	1	5	18	160	CO	4.28661404		60

2015										
movesRunId	yearId	monthId	dayId	hourId	linkId	pollutant		GramsPerVehMile	GramsPerVehHour	Speeds
1	2015	1	1	5	18	10	CO		30.78676069	Idle
1	2015	1	1	5	18	110	CO	7.882201234		10
1	2015	1	1	5	18	115	CO	6.817698045		15
1	2015	1	1	5	18	120	CO	6.072425682		20
1	2015	1	1	5	18	125	CO	5.218607146		25
1	2015	1	1	5	18	130	CO	4.805661045		30
1	2015	1	1	5	18	135	CO	4.384647979		35
1	2015	1	1	5	18	140	CO	4.060639885		40
1	2015	1	1	5	18	145	CO	3.900392032		45
1	2015	1	1	5	18	150	CO	3.817032562		50
1	2015	1	1	5	18	155	CO	3.809730678		55
1	2015	1	1	5	18	160	CO	3.866566051		60

2025										
movesRunId	yearId	monthId	dayId	hourId	linkId	pollutant		GramsPerVehMile	GramsPerVehHour	Speeds
1	2025	1	1	5	18	10	CO		13.3499068	Idle
1	2025	1	1	5	18	110	CO	4.997841728		10
1	2025	1	1	5	18	115	CO	4.499645995		15
1	2025	1	1	5	18	120	CO	4.06348525		20
1	2025	1	1	5	18	125	CO	3.462306915		25
1	2025	1	1	5	18	130	CO	3.246084676		30
1	2025	1	1	5	18	135	CO	2.977545292		35
1	2025	1	1	5	18	140	CO	2.755294089		40
1	2025	1	1	5	18	145	CO	2.662437317		45
1	2025	1	1	5	18	150	CO	2.622849097		50
1	2025	1	1	5	18	155	CO	2.641068451		55
1	2025	1	1	5	18	160	CO	2.708497144		60

2035										
movesRunId	yearId	monthId	dayId	hourId	linkId	pollutant		GramsPerVehMile	GramsPerVehHour	Speeds
1	2035	1	1	5	18	10	CO		9.820137146	Idle
1	2035	1	1	5	18	110	CO	4.425838373		10
1	2035	1	1	5	18	115	CO	4.036019365		15
1	2035	1	1	5	18	120	CO	3.658790454		20
1	2035	1	1	5	18	125	CO	3.101109908		25
1	2035	1	1	5	18	130	CO	2.925478496		30
1	2035	1	1	5	18	135	CO	2.692878991		35
1	2035	1	1	5	18	140	CO	2.492391006		40
1	2035	1	1	5	18	145	CO	2.408389255		45
1	2035	1	1	5	18	150	CO	2.377429434		50
1	2035	1	1	5	18	155	CO	2.397927473		55
1	2035	1	1	5	18	160	CO	2.462480116		60