

Met site, YEOV

Project Notes

"Yarlington Farm, Proposed sources"

Run Mode, Conservative

RECEPTORS

Number, Name, SITE CODE, Habitat Type, xy

1,Shepton Montague Railway Cutting,1213,SSSI,368535_131714
2,Sparkford Wood,1211,SSSI,361407_127601
3,Godminster Lane Quarry & Railway Cutting,1196,SSSI,368072.2_134438.9
4,Bruton Railway Cutting,1188,SSSI,368610.9_134668.7
5,Cogley Wood,1393,SSSI,370346.8_133856.7
6,Babcary Meadows,1034,SSSI,356938.2_129306.1
7,Holway Hill Quarry,3868,SSSI,363797_121137.9
8,Laycock Railway Cutting,1214,SSSI,367923.8_121424.4
9,Miller|s Hill| Milborne Wick,3936,SSSI,366363_120617.9

INSTALLATIONS

Number,Name,No. Sources, PM10(t/a), NH3(t/a), Odour(kOu/a)

1, Yarlington Farm, 4, 1.2, 2.7, 4919616.0

Concentrations / depositions and critical loads

RECEPTORS, NAME, PC NH3 (ug m-3), NH3 Background (ug m-3), NH3 PEC (ug m-3), NH3 EAL (ug m-3), % of NH3 PC to CLevel, % of NH3 PEC to CLevel, PC NDEP (kg/ha/yr), NDEP Background (kg/ha/yr), NDEP TOTAL (kg/ha/yr), NDEP CLOAD (kg/ha/yr), NITROGEN_HABITAT, % of Ndep PC to CLoad, % of Ndep PEC to CLoad, PC ACID_DEP (kEqH+/ha/yr), ACID_DEP Background (kEqH+/ha/yr), ACID_DEP TOTAL (kEqH+/ha/yr), ACID_DEP CLOAD (kEqH+/ha/yr), ACID_HABITAT,% of Adep PC to CLoad, % of Adep PEC to CLoad, PC PM10 (ug m-3), PM10 Background (ug m-3), PM10 PEC (ug m-3), PM10 EAL (ug m-3), PM10 %PC of EAL, PM10 %PEC of EAL, PC ODOUR (Ou m-3), ODOUR Background (Ou m-3), ODOUR PEC (Ou m-3), ODOUR EAL (Ou m-3)

1,Shepton Montague Railway Cutting,0.01524, 2.41, 2.42524, 1-3,0.508,80.84133333333333, 0.08, 19.74, 19.82, ,Maritime cliff, ,, 0.006, 1.510, 1.516, ,No sensitive habitat or species at this site,,, 0.01, 12.30, 12.31, 40,0.025,30.775, 0.12, 0, 0.12,3
2,Sparkford Wood,0.01380, 2.60, 2.6138, 1-3,0.46,87.12666666666667, 0.07, 18.15, 18.22, ,No sensitive habitat or species at this site, ,, 0.005, 1.392, 1.397, ,No sensitive habitat or species at this site,,, 0.01, 14.55, 14.56, 40,0.025,36.4, 0.11, 0, 0.11,3
3,Godminster Lane Quarry & Railway Cutting,0.00778, 2.90, 2.90778, 1-3,0.2593333333333333,96.926, 0.04, 20.34, 20.38, 5.0,Intermediate bog (blanket), 0.8,407.6, 0.003, 1.555, 1.558, 0.534,Intermediate bog (blanket),0.561797752808989,291.760299625468, 0.00, 12.06, 12.06, 40,0,30.15, 0.07, 0, 0.07,3
4,Bruton Railway Cutting,0.00667, 2.90, 2.90667, 1-3,0.2223333333333333,96.889, 0.04, 20.34, 20.38, 5.0,Sand dunes, 0.8,407.6, 0.003, 1.555, 1.558, 1.094,Sand dunes,0.274223034734918,142.413162705667, 0.00, 12.06, 12.06, 40,0,30.15, 0.06, 0, 0.06,3
5,Cogley Wood,0.00566, 2.61, 2.61566, 1-3,0.1886666666666667,87.18866666666667, 0.03, 19.87, 19.9, ,Maritime cliff, 0.8,407.6, 0.002, 1.522, 1.524, ,No sensitive habitat or species at this site,0.274223034734918,142.413162705667, 0.00, 11.77, 11.77, 40,0,29.425, 0.06, 0, 0.06,3

6,Babcary Meadows,0.00393, 2.54, 2.54393, 1-3,0.131,84.7976666666667,
0.02, 17.80, 17.82, 10.0,Greylag goose (Anser anser) non-breeding,
0.2,178.2, 0.001, 1.371, 1.372, ,No sensitive habitat or species at this
site,0.274223034734918,142.413162705667, 0.00, 14.29, 14.29, 40,0,35.725,
0.04, 0, 0.04,3
7,Holway Hill Quarry,0.00370, 2.42, 2.4237, 1-3,0.1233333333333333,80.79,
0.02, 18.90, 18.92, ,No sensitive habitat or species at this site,
0.2,178.2, 0.001, 1.458, 1.459, ,No sensitive habitat or species at this
site,0.274223034734918,142.413162705667, 0.00, 13.15, 13.15, 40,0,32.875,
0.04, 0, 0.04,3
8,Laycock Railway Cutting,0.00365, 2.60, 2.60365, 1-
3,0.1216666666666667,86.78833333333333, 0.02, 19.57, 19.59, 10.0,Greylag
goose (Anser anser) non-breeding, 0.2,195.9, 0.001, 1.501, 1.502, ,No
sensitive habitat or species at this
site,0.274223034734918,142.413162705667, 0.00, 12.04, 12.04, 40,0,30.1,
0.04, 0, 0.04,3
9,Miller|s Hill| Milborne Wick,0.00334, 2.60, 2.60334, 1-
3,0.1113333333333333,86.778, 0.02, 19.46, 19.48, ,No sensitive habitat or
species at this site, 0.2,195.9, 0.001, 1.495, 1.496, ,No sensitive
habitat or species at this site,0.274223034734918,142.413162705667, 0.00,
12.88, 12.88, 40,0,32.2, 0.04, 0, 0.04,3

** AERMOD Input Produced by:

** SCAIL-AGRICULTURE V1.0.0

** 25/05/2012

** AERMOD Control Pathway

CO STARTING

CO TITLEONE SCAIL-AGRICULTURE TEST CASE

CO MODELOPT CONC FLAT NOSTD

CO AVERTIME 1 24 PERIOD

CO POLLUTID GENERIC

CO RUNORNOT RUN

CO ERRORFIL error.txt

CO FINISHED

** AERMOD Source Pathway

SO STARTING

** Source ID - Type - X Coord. - Y Coord. **

SO LOCATION SSTK01 AREACIRC 365000 129780 0.0
SO LOCATION NSTK01 AREACIRC 365000 129780 0.0
SO LOCATION OSTK01 AREACIRC 365000 129780 0.0
SO LOCATION SSTK02 AREACIRC 365043 129745 0.0
SO LOCATION NSTK02 AREACIRC 365043 129745 0.0
SO LOCATION OSTK02 AREACIRC 365043 129745 0.0
SO LOCATION SSTK03 VOLUME 364986 129809 0.0
SO LOCATION NSTK03 VOLUME 364986 129809 0.0
SO LOCATION OSTK03 VOLUME 364986 129809 0.0
SO LOCATION SSTK04 VOLUME 364995 129771 0.0
SO LOCATION NSTK04 VOLUME 364995 129771 0.0
SO LOCATION OSTK04 VOLUME 364995 129771 0.0

** Source Parameters <<<<emission rate (in g/s), height, temp and velocity
data from interface>>>> **

** NAME g/s Height Temp Velocity Dia

SO SRCPARAM SSTK01 2.433e-05 0 11.333925605647
SO SRCPARAM NSTK01 0.000e+00 0 11.333925605647
SO SRCPARAM OSTK01 0.000e+00 0 11.333925605647
SO SRCPARAM SSTK02 3.188e-06 0 10.9631555226727
SO SRCPARAM NSTK02 0.000e+00 0 10.9631555226727
SO SRCPARAM OSTK02 0.000e+00 0 10.9631555226727
SO SRCPARAM SSTK03 6.057e-02 4 0 1.86046511627907
SO SRCPARAM NSTK03 0.000e+00 4 0 1.86046511627907
SO SRCPARAM OSTK03 0.000e+00 4 0 1.86046511627907
SO SRCPARAM SSTK04 1.351e-02 4 9.30232558139535 1.86046511627907
SO SRCPARAM NSTK04 3.786e-02 4 9.30232558139535 1.86046511627907
SO SRCPARAM OSTK04 1.560e-01 4 9.30232558139535 1.86046511627907

** Grouping of stacks into sources (group name, stacks in group) based on
sources from interface

SO SRCGROUP SALL SSTK01 SSTK02 SSTK03 SSTK04
SO SRCGROUP NALL NSTK01 NSTK02 NSTK03 NSTK04
SO SRCGROUP OALL OSTK01 OSTK02 OSTK03 OSTK04
SO SRCGROUP SGRP0 SSTK01 SSTK02 SSTK03 SSTK04
SO SRCGROUP NGRP0 NSTK01 NSTK02 NSTK03 NSTK04
SO SRCGROUP OGRP0 OSTK01 OSTK02 OSTK03 OSTK04
SO FINISHED

** AERMOD Receptor Pathway

RE STARTING

** Habitat location input from interface

RE DISCCART 367169 133014
RE DISCCART 367276 133199
RE DISCCART 368012 134474
RE DISCCART 368253 134891
RE DISCCART 368536 135381
RE DISCCART 369277 136664
RE DISCCART 369418 136910
RE DISCCART 369448 136962
RE DISCCART 369663 137334
RE FINISHED

** AERMOD Meteorology Pathway

ME STARTING

** Filename for met file (either based on location information or
directly input from interface)

ME SURFFILE YEOV.SFC
ME PROFFILE YEOV.PFL
** Defaults

ME SURFDATA 03672 2019

ME UAIRDATA 0 2019

ME PROFBASE 0 METERS

ME FINISHED

** AERMOD Output Pathway

OU STARTING

OU RECTABLE 1 176

OU RECTABLE 24 36

OU RECTABLE 24 8

OU SUMMFILE sumfile.sum

** Output files by source grouping

** PLOTFILE PERIOD ALL testcase_allsources.PLT

OU PLOTFILE PERIOD SALL res_sall.txt
OU PLOTFILE PERIOD NALL res_nall.txt
OU PLOTFILE 1 OALL 176 res_oall.txt
OU PLOTFILE PERIOD SGRP0 res_sgrp0.txt
OU PLOTFILE PERIOD NGRP0 res_ngrp0.txt
OU PLOTFILE 1 OGRP0 176 res_ogrp0.txt
OU FINISHED

**NOTES

**PROJNOTES Yarlington Farm, Proposed sources

**REGION England

**RADIUS 10

**RUNMODE Conservative

**DWDIR Average

**ALTEREDREF

**METNAME YEOV

**LOCATION 1,1,Shepton Montague Railway

Cutting,368535_131714,Habitat,1213,4013,SSSI,HAB,,

**LOCATION 2,2,Sparkford Wood,361407_127601,Habitat,1211,4227,SSSI,HAB,,

**LOCATION 3,3,Godminster Lane Quarry & Railway

Cutting,368072.2_134438.9,Habitat,1196,5698,SSSI,HAB,,

**LOCATION 4,4,Bruton Railway

Cutting,368610.9_134668.7,Habitat,1188,6181,SSSI,HAB,,

**LOCATION 5,5,Cogley Wood,370346.8_133856.7,Habitat,1393,6746,SSSI,HAB,,

**LOCATION 6,6,Babcary

Meadows,356938.2_129306.1,Habitat,1034,8228,SSSI,HAB,,

**LOCATION 7,7,Holway Hill

Quarry,363797_121137.9,Habitat,3868,8511,SSSI,HAB,,

**LOCATION 8,8,Laycock Railway

Cutting,367923.8_121424.4,Habitat,1214,8571,SSSI,HAB,,

**LOCATION 9,9,Miller|s Hill| Milborne

Wick,366363_120617.9,Habitat,3936,9001,SSSI,HAB,,

**SOURCE 1,Yarlington Farm,365163_129539,OGRP0,SGRP0,NGRP0,

**STACK 1,1,Slurry store,cattle,New,Slurry store,365000_129780,Litter /

Manure storage,,Select,,,,Slurry storage,Above ground tank - with

crust,950,404,310,,0,,0,,,false,,

**STACK 1,2,Muck store,cattle,New,Muck store,365043_129745,Litter / Manure

storage,,Select,,,,Farmyard manure storage,Stacked heap - covered with

sheeting,293,378,38,,0,,0,,,false,,

**STACK

1,3,Roundhouse,own_emissions,New,Roundhouse,364986_129809,Housing,8,Select

,,,please select...,Above ground tank - with

crust,200,,1910,,0,,0,,,true,,150

**STACK 1,4,Milking parlour,cattle,New,Milking

parlour,364995_129771,Housing,8,Select,,,,Dairy cows,Slurry based cubicle

housing,100,1600,426,,1194,,4919616000,,,true,,60