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Summary

Table of Contents
Regulations and other acts
Index

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Table of Contents

Page

Regulations and other acts

| | |
|--|-------|
| Guidelines respecting odours caused by manure from agricultural activities | 1919A |
|--|-------|

Regulations and other acts

M.O., 2003012

**Order of Minister of the Environment
dated 17 June 2003**

An Act to amend the Act to preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities
(1996, c. 26)

An Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions
(2001, c. 35)

Guidelines respecting odours caused by manure from agricultural activities

WHEREAS on 25 September 1996, the Guidelines concerning the prevention of air pollution in livestock operations were issued by the Minister of the Environment and Wildlife and published in the *Gazette officielle du Québec*;

WHEREAS, under section 87 of the Act to amend the Act to preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities (1996, c. 26), any amendment made to the Guidelines by the Minister of the Environment and Wildlife shall be published in the *Gazette officielle du Québec* and shall take effect on the date of publication;

WHEREAS the Guidelines concerning the prevention of air pollution in livestock operations were replaced by the Guidelines for determining minimum distances to ensure odour management in rural areas, published by the Minister of the Environment and Wildlife in the *Gazette officielle du Québec* of 18 March 1998 (*G.O.* 2, 1286), to harmonize the Guidelines with the government's aims published in the document entitled "Les orientations du gouvernement en matière d'aménagement – La protection du territoire et des activités agricoles – document complémentaire", June 1997;

WHEREAS the majority of the provisions of the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions (2001, c. 35) came into force on 21 June 2001;

WHEREAS, under section 38 of that Act, to issue a construction permit, a municipality must apply the set-back standards of the Guidelines, including any subsequent amendment the Minister may make until the coming into force of an interim control by-law of a regional county municipality that includes standards deriving from the exercise of the powers provided for in subparagraph 4 of the second paragraph of section 113 of the Act respecting land use planning and development (R.S.Q., c. A-19.1) or of a by-law of a municipality adopted under that subparagraph;

WHEREAS it is expedient to again harmonize the current Guidelines with the government's aims published in the document entitled "Les orientations du gouvernement en matière d'aménagement – La protection du territoire et des activités agricoles – document complémentaire", December 2001;

WHEREAS this harmonization takes up in substance the government's aims of December 2001, except the notion of "business" appearing in the definition of "Protected immovable" in the new Guidelines which is excluded from the text of the government's aims because of the legislative vacuum that would be created by its immediate repeal in the absence of municipal by-laws determining, where applicable, the types of business a municipality intends to protect in the future;

THEREFORE, the Minister of the Environment hereby issues new Guidelines, the text of which appears below, to replace the Guidelines for determining minimum distances to ensure odour management in rural areas.

Québec, 17 June 2003

THOMAS J. MULCAIR,
Minister of the Environment

Guidelines respecting odours caused by manure from agricultural activities

1. OBJECT AND SCOPE

The following provisions pertain only to odours caused by agricultural practices. The provisions do not operate to exempt agricultural operations from the requirement to respect the environmental standards contained in specific regulations of the Ministère de l'Environnement. Their purpose is to establish a procedure for determining separation distances conducive to facilitating a harmonious coexistence of uses in agricultural zones. The municipalities must apply the standards in the Guidelines within the framework of section 38 of the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions (2001, c. 35) for the time indicated therein. In the same way, the municipalities must consider the Guidelines to the extent provided for in the Regulation under the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions made under section 44 of that Act by Order in Council 619-2002 dated 29 May 2002.

2. DEFINITIONS

Dwelling

A dwelling having an area of at least 21 m² that does not belong to the owner or operator of the livestock facilities concerned or to a shareholder or manager owning or operating the facilities.

Protected immovable

- (a) a business;
- (b) a recreational, sports or cultural centre;
- (c) a municipal park;
- (d) a public beach or marina;
- (e) land belonging to an educational institution or an institution within the meaning of the Act respecting health services and social services (R.S.Q., c. S-4.2);

(f) a campground;

(g) buildings of an outdoor recreational area or a nature interpretation centre;

(h) a ski lodge or golf clubhouse;

(i) a religious temple;

(j) a summer theatre;

(k) a tourist accommodation establishment within the meaning of the Regulation respecting tourist accommodation establishments, except bed and breakfast establishments, tourist homes or basic furnished lodgings;

(l) buildings used for wine tasting purposes in vineyards or restaurants of 20 seats or more that hold a year-round operating permit, and facilities for country or any other similar form of dining where the eating facilities do not belong to the owner or operator of the livestock facilities concerned.

Protected heritage site

A heritage site recognized by a competent jurisdiction and shown on the development plan.

Municipal urbanization perimeter

The boundary envisaged for the growth of a municipality's urban areas, as defined in its development plan, with the exception of any portion of the perimeter in an agricultural zone.

Marina

Tourist installation that comprises a pleasure-boat harbour and the facilities that border the harbour and that is shown on the development plan.

Campground

Establishment offering to the public, in return for payment, sites to accommodate tents or recreational camping vehicles, with the exception of a campground on a farm that belongs to the owner or operator of the livestock facilities concerned.

Solid manure management

A method of removing manure from a livestock facility or storage works where the water content is lower than 85% leaving the building.

Liquid manure management

A method of removing manure other than by solid manure management.

Livestock facility

A facility where animals are raised or an enclosure or part of an enclosure where animals are kept for purposes other than pasture including, where applicable, any manure storage works in the facility or enclosure.

Livestock unit

A livestock facility or, where there is more than one facility, all the livestock facilities in respect of which a point on the perimeter of one facility is less than 150 metres from the neighbouring livestock facility, and from storage works, if any, for the manure from the animals in the facility or facilities.

3. SEPARATION DISTANCES FOR LIVESTOCK FACILITIES

The separation distances for livestock facilities are obtained by multiplying the set of parameters B, C, D, E, F and G appearing below.

The parameters are as follows:

Parameter A: maximum number of livestock units (LU) kept during an annual production cycle. It is used to determine parameter B and is established using the table in Schedule A.

Parameter B: base distance. It is established by locating, in the table appearing in Schedule B, the base distance corresponding to the value calculated for parameter A.

Parameter C: odour coefficient. The table in Schedule C shows the odour coefficient according to the group or category of animals in question.

Parameter D: manure type. The table in Schedule D gives the value of the parameter in relation to the farm manure management practice.

Parameter E: project type. When a livestock unit has availed itself in totality of the development right under the *Act respecting the development of agriculture land and agricultural activities*, or to increase livestock by more than 75 LU, the applicable separation distances may be relaxed in its respect, subject to the content of Schedule E, up to a maximum of 225 LU.

Parameter F: attenuation factor. This parameter appears in Schedule F. It enables integration of the odour attenuation effect resulting from the technology used.

Parameter G: use factor. It is based on the type of neighbouring unit in question. Schedule G gives the value of the factor.

4. RECONSTRUCTION AFTER A FIRE OF A NON-CONFORMING LIVESTOCK FACILITY PROTECTED BY ACQUIRED RIGHTS

Where a non-conforming livestock facility protected by acquired rights is destroyed by fire or any other cause, the municipality shall ensure that the producer affected can continue to carry on activities,¹ and that the erection of new facilities takes place in compliance with the by-laws in force, in such manner as to improve the previous situation in terms of harmonious co-existence with neighbouring uses, subject to the application of a by-law adopted under the third paragraph of section 118 of the *Act respecting land use planning and development*. Among other things, the side and front spaces prescribed in the municipal by-laws must be respected. If it is not possible to respect the standards under the by-laws, a minor exemption to the provisions of the zoning by-law may be granted to enable the main facility and accessory structures to be rebuilt.²

¹ Under subparagraph 18 of the first paragraph of section 113 of the *Act respecting land use planning and development*, a municipality may define a period of time, that may not be shorter than six months, for a use that has been abandoned, has ceased or has been interrupted.

² Under section 145.1 and following of the *Act respecting land use planning and development*, the council of a municipality may grant a minor exemption if a person cannot respect the by-laws in force if the application of the by-law causes a serious prejudice to the applicant. However, a minor exemption may not be granted if it hinders the owners of the neighbouring immovables in the enjoyment of their right of ownership.

5. SEPARATION DISTANCES FOR FARM MANURE STORAGE SITES SITUATED MORE THAN 150 METRES FROM LIVESTOCK FACILITIES

When farm manure is stored outside the livestock facility, separation distances must be respected. They are established on the consideration that one livestock unit (LU) requires a 20m³ storage capacity. For example, the value of parameter A, in the case of a 1000m³ capacity tank, corresponds to 50 LU. Once that equivalence has been determined, it is possible to determine the corresponding base distance using Table B. The formula multiplying the set of parameters B, C, D, E, F and G may then be applied. The following table illustrates cases where C, D and E equal 1, with G varying according to the neighbouring unit considered.

Separation distances for liquid manure storage sites³ situated more than 150 metres from a livestock facility

| Storage ⁴ capacity (m ³) | Separation distances (m) | | |
|---|--------------------------|------------------------|---------------------------|
| | Dwelling | Protected immovable | Urbanization perimeter |
| 1 000 | 148 | 295 | 443 |
| 2 000 | 184 | 367 | 550 |
| 3 000 | 208 | 416 | 624 |
| 4 000 | 228 | 456 | 684 |
| 5 000 | 245 | 489 | 734 |
| 6 000 | 259 | 517 | 776 |
| 7 000 | 272 | 543 | 815 |
| 8 000 | 283 | 566 | 849 |
| 9 000 | 294 | 588 | 882 |
| 10 000 | 304 | 607 | 911 |

6. SEPARATION DISTANCES FOR SPREADING FARM MANURE

The nature of farm manure and the equipment used are the determining factors in respect of the separation distances to respect for spreading. The distances proposed in the following table are a compromise between spreading practices and protection of other uses in rural areas. The use of sprinklers or cannons is prohibited under the provisions of the regulations of the Ministère de l'Environnement. Farm manure must be spread in keeping with the separation distances appearing in the following table:

Separation distances for spreading farm manure⁵

| Type | Spreading method | Distance required from any dwelling, urbanization perimeter or protected immovable (m) | | |
|----------------------------|---|--|-------------|----------------|
| | | June 15 to August 15 | Other times | |
| L I Q U I D | aero-sprinkling (tank) | liquid manure left on the surface more than 24 h | 75 | 25 |
| | | liquid manure incorporated within less than 24 h | 25 | X ⁶ |
| D | sprinkling | by spray bar | 25 | X |
| | | by drop pipe | X | X |
| | simultaneous incorporation | X | X | |
| S O | fresh, left on the surface more than 24 h | 75 | X | |
| L I D | fresh, incorporated within less than 24 h | X | X | |
| | deodorized compost | X | X | |

7. These Guidelines replace the Guidelines for determining minimum distances to ensure odour management in rural areas published in the *Gazette officielle du Québec* on 18 March 1998.

8. These Guidelines come into force on the date of their publication in the *Gazette officielle du Québec*.

³ For manure, multiply the above distances by 0.8.

⁴ For other storage capacity, effect the necessary calculations using a rule of apportionment or the data for parameter A.

⁵ No separation distance is required for uninhabited zones in an urbanization perimeter.

⁶ X = Spreading permitted up to field limits.

SCHEDULE A**NUMBER OF LIVESTOCK UNITS (PARAMETER A)**

1. For the purposes of determining parameter A, the animals listed in the table below are equivalent to one livestock unit in relation to the number prescribed.

2. For any other animal species, an animal weighing 500 kg or more or a livestock group of that species whose total weight is 500 kg is equivalent to one livestock unit.

3. When a weight is given in this Schedule, it refers to the forecasted weight of the animal at the end of the livestock period.

| Livestock group or category | Number of animals equivalent to one livestock unit |
|--|---|
| Cow, bull, horse | 1 |
| Calves weighing 225 to 500 kg each | 2 |
| Calves weighing less than 225 kg each | 5 |
| Breeder hogs weighing 20 to 100 kg each | 5 |
| Piglets weighing less than 20 kg each | 25 |
| Sows and piglets not weaned in the year | 4 |
| Hens or roosters | 125 |
| Broiler chickens | 250 |
| Started pulets | 250 |
| Quails | 1500 |
| Pheasants | 300 |
| Broiler turkeys weighing 5 to 5.5 kg each | 100 |
| Broiler turkeys weighing 8.5 to 10 kg each | 75 |
| Broiler turkeys weighing 13 kg each | 50 |
| Female mink excluding males and young | 100 |
| Vixen excluding males and young | 40 |
| Sheep and yearling lambs | 4 |
| Goats and yearling kids | 6 |
| Female rabbits excluding males and young | 40 |

SCHEDULE B

BASE DISTANCES (PARAMETER B)

| L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | | |
|-----------|-----|-----------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
| 1 | 86 | 51 | 297 | 101 | 368 | 151 | 417 | 201 | 456 | 251 | 489 | 301 | 518 | 351 | 543 | 401 | 567 | 451 | 588 |
| 2 | 107 | 52 | 299 | 102 | 369 | 152 | 418 | 202 | 457 | 252 | 490 | 302 | 518 | 352 | 544 | 402 | 567 | 452 | 588 |
| 3 | 122 | 53 | 300 | 103 | 370 | 153 | 419 | 203 | 458 | 253 | 490 | 303 | 519 | 353 | 544 | 403 | 568 | 453 | 589 |
| 4 | 134 | 54 | 302 | 104 | 371 | 154 | 420 | 204 | 458 | 254 | 491 | 304 | 520 | 354 | 545 | 404 | 568 | 454 | 589 |
| 5 | 143 | 55 | 304 | 105 | 372 | 155 | 421 | 205 | 459 | 255 | 492 | 305 | 520 | 355 | 545 | 405 | 568 | 455 | 590 |
| 6 | 152 | 56 | 306 | 106 | 373 | 156 | 421 | 206 | 460 | 256 | 492 | 306 | 521 | 356 | 546 | 406 | 569 | 456 | 590 |
| 7 | 159 | 57 | 307 | 107 | 374 | 157 | 422 | 207 | 461 | 257 | 493 | 307 | 521 | 357 | 546 | 407 | 569 | 457 | 590 |
| 8 | 166 | 58 | 309 | 108 | 375 | 158 | 423 | 208 | 461 | 258 | 493 | 308 | 522 | 358 | 547 | 408 | 570 | 458 | 591 |
| 9 | 172 | 59 | 311 | 109 | 377 | 159 | 424 | 209 | 462 | 259 | 494 | 309 | 522 | 359 | 547 | 409 | 570 | 459 | 591 |
| 10 | 178 | 60 | 312 | 110 | 378 | 160 | 425 | 210 | 463 | 260 | 495 | 310 | 523 | 360 | 548 | 410 | 571 | 460 | 592 |
| 11 | 183 | 61 | 314 | 111 | 379 | 161 | 426 | 211 | 463 | 261 | 495 | 311 | 523 | 361 | 548 | 411 | 571 | 461 | 592 |
| 12 | 188 | 62 | 315 | 112 | 380 | 162 | 426 | 212 | 464 | 262 | 496 | 312 | 524 | 362 | 549 | 412 | 572 | 462 | 592 |
| 13 | 193 | 63 | 317 | 113 | 381 | 163 | 427 | 213 | 465 | 263 | 496 | 313 | 524 | 363 | 549 | 413 | 572 | 463 | 593 |
| 14 | 198 | 64 | 319 | 114 | 382 | 164 | 428 | 214 | 465 | 264 | 497 | 314 | 525 | 364 | 550 | 414 | 572 | 464 | 593 |
| 15 | 202 | 65 | 320 | 115 | 383 | 165 | 429 | 215 | 466 | 265 | 498 | 315 | 525 | 365 | 550 | 415 | 573 | 465 | 594 |
| 16 | 206 | 66 | 322 | 116 | 384 | 166 | 430 | 216 | 467 | 266 | 498 | 316 | 526 | 366 | 551 | 416 | 573 | 466 | 594 |
| 17 | 210 | 67 | 323 | 117 | 385 | 167 | 431 | 217 | 467 | 267 | 499 | 317 | 526 | 367 | 551 | 417 | 574 | 467 | 594 |
| 18 | 214 | 68 | 325 | 118 | 386 | 168 | 431 | 218 | 468 | 268 | 499 | 318 | 527 | 368 | 552 | 418 | 574 | 468 | 595 |
| 19 | 218 | 69 | 326 | 119 | 387 | 169 | 432 | 219 | 469 | 269 | 500 | 319 | 527 | 369 | 552 | 419 | 575 | 469 | 595 |
| 20 | 221 | 70 | 328 | 120 | 388 | 170 | 433 | 220 | 469 | 270 | 501 | 320 | 528 | 370 | 553 | 420 | 575 | 470 | 596 |
| 21 | 225 | 71 | 329 | 121 | 389 | 171 | 434 | 221 | 470 | 271 | 501 | 321 | 528 | 371 | 553 | 421 | 575 | 471 | 596 |
| 22 | 228 | 72 | 331 | 122 | 390 | 172 | 435 | 222 | 471 | 272 | 502 | 322 | 529 | 372 | 553 | 422 | 576 | 472 | 596 |
| 23 | 231 | 73 | 332 | 123 | 391 | 173 | 435 | 223 | 471 | 273 | 502 | 323 | 530 | 373 | 554 | 423 | 576 | 473 | 597 |
| 24 | 234 | 74 | 333 | 124 | 392 | 174 | 436 | 224 | 472 | 274 | 503 | 324 | 530 | 374 | 554 | 424 | 577 | 474 | 597 |
| 25 | 237 | 75 | 335 | 125 | 393 | 175 | 437 | 225 | 473 | 275 | 503 | 325 | 531 | 375 | 555 | 425 | 577 | 475 | 598 |
| 26 | 240 | 76 | 336 | 126 | 394 | 176 | 438 | 226 | 473 | 276 | 504 | 326 | 531 | 376 | 555 | 426 | 578 | 476 | 598 |
| 27 | 243 | 77 | 338 | 127 | 395 | 177 | 438 | 227 | 474 | 277 | 505 | 327 | 532 | 377 | 556 | 427 | 578 | 477 | 598 |
| 28 | 246 | 78 | 339 | 128 | 396 | 178 | 439 | 228 | 475 | 278 | 505 | 328 | 532 | 378 | 556 | 428 | 578 | 478 | 599 |
| 29 | 249 | 79 | 340 | 129 | 397 | 179 | 440 | 229 | 475 | 279 | 506 | 329 | 533 | 379 | 557 | 429 | 579 | 479 | 599 |
| 30 | 251 | 80 | 342 | 130 | 398 | 180 | 441 | 230 | 476 | 280 | 506 | 330 | 533 | 380 | 557 | 430 | 579 | 480 | 600 |
| 31 | 254 | 81 | 343 | 131 | 399 | 181 | 442 | 231 | 477 | 281 | 507 | 331 | 534 | 381 | 558 | 431 | 580 | 481 | 600 |
| 32 | 256 | 82 | 344 | 132 | 400 | 182 | 442 | 232 | 477 | 282 | 507 | 332 | 534 | 382 | 558 | 432 | 580 | 482 | 600 |
| 33 | 259 | 83 | 346 | 133 | 401 | 183 | 443 | 233 | 478 | 283 | 508 | 333 | 535 | 383 | 559 | 433 | 581 | 483 | 601 |

| L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | | |
|-----------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|-----|
| 34 | 261 | 84 | 347 | 134 | 402 | 184 | 444 | 234 | 479 | 284 | 509 | 334 | 535 | 384 | 559 | 434 | 581 | 484 | 601 |
| 35 | 264 | 85 | 348 | 135 | 403 | 185 | 445 | 235 | 479 | 285 | 509 | 335 | 536 | 385 | 559 | 435 | 581 | 485 | 602 |
| 36 | 266 | 86 | 350 | 136 | 404 | 186 | 445 | 236 | 480 | 286 | 510 | 336 | 536 | 386 | 560 | 436 | 582 | 486 | 602 |
| 37 | 268 | 87 | 351 | 137 | 405 | 187 | 446 | 237 | 480 | 287 | 510 | 337 | 537 | 387 | 560 | 437 | 582 | 487 | 602 |
| 38 | 271 | 88 | 352 | 138 | 406 | 188 | 447 | 238 | 481 | 288 | 511 | 338 | 537 | 388 | 561 | 438 | 583 | 488 | 603 |
| 39 | 273 | 89 | 353 | 139 | 406 | 189 | 448 | 239 | 482 | 289 | 511 | 339 | 538 | 389 | 561 | 439 | 583 | 489 | 603 |
| 40 | 275 | 90 | 355 | 140 | 407 | 190 | 448 | 240 | 482 | 290 | 512 | 340 | 538 | 390 | 562 | 440 | 583 | 490 | 603 |
| 41 | 277 | 91 | 356 | 141 | 408 | 191 | 449 | 241 | 483 | 291 | 512 | 341 | 539 | 391 | 562 | 441 | 584 | 491 | 604 |
| 42 | 279 | 92 | 357 | 142 | 409 | 192 | 450 | 242 | 484 | 292 | 513 | 342 | 539 | 392 | 563 | 442 | 584 | 492 | 604 |
| 43 | 281 | 93 | 358 | 143 | 410 | 193 | 451 | 243 | 484 | 293 | 514 | 343 | 540 | 393 | 563 | 443 | 585 | 493 | 605 |
| 44 | 283 | 94 | 359 | 144 | 411 | 194 | 451 | 244 | 485 | 294 | 514 | 344 | 540 | 394 | 564 | 444 | 585 | 494 | 605 |
| 45 | 285 | 95 | 361 | 145 | 412 | 195 | 452 | 245 | 486 | 295 | 515 | 345 | 541 | 395 | 564 | 445 | 586 | 495 | 605 |
| 46 | 287 | 96 | 362 | 146 | 413 | 196 | 453 | 246 | 486 | 296 | 515 | 346 | 541 | 396 | 564 | 446 | 586 | 496 | 606 |
| 47 | 289 | 97 | 363 | 147 | 414 | 197 | 453 | 247 | 487 | 297 | 516 | 347 | 542 | 397 | 565 | 447 | 586 | 497 | 606 |
| 48 | 291 | 98 | 364 | 148 | 415 | 198 | 454 | 248 | 487 | 298 | 516 | 348 | 542 | 398 | 565 | 448 | 587 | 498 | 607 |
| 49 | 293 | 99 | 365 | 149 | 415 | 199 | 455 | 249 | 488 | 299 | 517 | 349 | 543 | 399 | 566 | 449 | 587 | 499 | 607 |
| 50 | 295 | 100 | 367 | 150 | 416 | 200 | 456 | 250 | 489 | 300 | 517 | 350 | 543 | 400 | 566 | 450 | 588 | 500 | 607 |

| L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m |
|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| 501 | 608 | 551 | 626 | 601 | 643 | 651 | 660 | 701 | 675 | 751 | 690 | 801 | 704 | 851 | 718 | 901 | 731 | 951 | 743 |
| 502 | 608 | 552 | 626 | 602 | 644 | 652 | 660 | 702 | 676 | 752 | 690 | 802 | 704 | 852 | 718 | 902 | 731 | 952 | 743 |
| 503 | 608 | 553 | 627 | 603 | 644 | 653 | 660 | 703 | 676 | 753 | 691 | 803 | 705 | 853 | 718 | 903 | 731 | 953 | 744 |
| 504 | 609 | 554 | 627 | 604 | 644 | 654 | 661 | 704 | 676 | 754 | 691 | 804 | 705 | 854 | 718 | 904 | 731 | 954 | 744 |
| 505 | 609 | 555 | 628 | 605 | 645 | 655 | 661 | 705 | 676 | 755 | 691 | 805 | 705 | 855 | 719 | 905 | 732 | 955 | 744 |
| 506 | 610 | 556 | 628 | 606 | 645 | 656 | 661 | 706 | 677 | 756 | 691 | 806 | 705 | 856 | 719 | 906 | 732 | 956 | 744 |
| 507 | 610 | 557 | 628 | 607 | 645 | 657 | 662 | 707 | 677 | 757 | 692 | 807 | 706 | 857 | 719 | 907 | 732 | 957 | 744 |
| 508 | 610 | 558 | 629 | 608 | 646 | 658 | 662 | 708 | 677 | 758 | 692 | 808 | 706 | 858 | 719 | 908 | 732 | 958 | 745 |
| 509 | 611 | 559 | 629 | 609 | 646 | 659 | 662 | 709 | 678 | 759 | 692 | 809 | 706 | 859 | 720 | 909 | 733 | 959 | 745 |
| 510 | 611 | 560 | 629 | 610 | 646 | 660 | 663 | 710 | 678 | 760 | 693 | 810 | 707 | 860 | 720 | 910 | 733 | 960 | 745 |
| 511 | 611 | 561 | 630 | 611 | 647 | 661 | 663 | 711 | 678 | 761 | 693 | 811 | 707 | 861 | 720 | 911 | 733 | 961 | 745 |
| 512 | 612 | 562 | 630 | 612 | 647 | 662 | 663 | 712 | 679 | 762 | 693 | 812 | 707 | 862 | 720 | 912 | 733 | 962 | 746 |
| 513 | 612 | 563 | 630 | 613 | 647 | 663 | 664 | 713 | 679 | 763 | 693 | 813 | 707 | 863 | 721 | 913 | 734 | 963 | 746 |
| 514 | 613 | 564 | 631 | 614 | 648 | 664 | 664 | 714 | 679 | 764 | 694 | 814 | 708 | 864 | 721 | 914 | 734 | 964 | 746 |
| 515 | 613 | 565 | 631 | 615 | 648 | 665 | 664 | 715 | 679 | 765 | 694 | 815 | 708 | 865 | 721 | 915 | 734 | 965 | 746 |
| 516 | 613 | 566 | 631 | 616 | 648 | 666 | 664 | 716 | 680 | 766 | 694 | 816 | 708 | 866 | 722 | 916 | 734 | 966 | 747 |
| 517 | 614 | 567 | 632 | 617 | 649 | 667 | 665 | 717 | 680 | 767 | 695 | 817 | 708 | 867 | 722 | 917 | 735 | 967 | 747 |
| 518 | 614 | 568 | 632 | 618 | 649 | 668 | 665 | 718 | 680 | 768 | 695 | 818 | 709 | 868 | 722 | 918 | 735 | 968 | 747 |
| 519 | 614 | 569 | 632 | 619 | 649 | 669 | 665 | 719 | 681 | 769 | 695 | 819 | 709 | 869 | 722 | 919 | 735 | 969 | 747 |
| 520 | 615 | 570 | 633 | 620 | 650 | 670 | 666 | 720 | 681 | 770 | 695 | 820 | 709 | 870 | 723 | 920 | 735 | 970 | 748 |
| 521 | 615 | 571 | 633 | 621 | 650 | 671 | 666 | 721 | 681 | 771 | 696 | 821 | 710 | 871 | 723 | 921 | 736 | 971 | 748 |
| 522 | 616 | 572 | 633 | 622 | 650 | 672 | 666 | 722 | 682 | 772 | 696 | 822 | 710 | 872 | 723 | 922 | 736 | 972 | 748 |
| 523 | 616 | 573 | 634 | 623 | 651 | 673 | 667 | 723 | 682 | 773 | 696 | 823 | 710 | 873 | 723 | 923 | 736 | 973 | 748 |
| 524 | 616 | 574 | 634 | 624 | 651 | 674 | 667 | 724 | 682 | 774 | 697 | 824 | 710 | 874 | 724 | 924 | 736 | 974 | 749 |
| 525 | 617 | 575 | 635 | 625 | 651 | 675 | 667 | 725 | 682 | 775 | 697 | 825 | 711 | 875 | 724 | 925 | 737 | 975 | 749 |
| 526 | 617 | 576 | 635 | 626 | 652 | 676 | 668 | 726 | 683 | 776 | 697 | 826 | 711 | 876 | 724 | 926 | 737 | 976 | 749 |
| 527 | 617 | 577 | 635 | 627 | 652 | 677 | 668 | 727 | 683 | 777 | 697 | 827 | 711 | 877 | 724 | 927 | 737 | 977 | 749 |
| 528 | 618 | 578 | 636 | 628 | 652 | 678 | 668 | 728 | 683 | 778 | 698 | 828 | 711 | 878 | 725 | 928 | 737 | 978 | 750 |
| 529 | 618 | 579 | 636 | 629 | 653 | 679 | 668 | 729 | 684 | 779 | 698 | 829 | 712 | 879 | 725 | 929 | 738 | 979 | 750 |
| 530 | 619 | 580 | 636 | 630 | 653 | 680 | 669 | 730 | 684 | 780 | 698 | 830 | 712 | 880 | 725 | 930 | 738 | 980 | 750 |
| 531 | 619 | 581 | 637 | 631 | 653 | 681 | 669 | 731 | 684 | 781 | 699 | 831 | 712 | 881 | 725 | 931 | 738 | 981 | 750 |
| 532 | 619 | 582 | 637 | 632 | 654 | 682 | 669 | 732 | 684 | 782 | 699 | 832 | 713 | 882 | 726 | 932 | 738 | 982 | 751 |

| L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m | L.U. | m |
|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| 533 | 620 | 583 | 637 | 633 | 654 | 683 | 670 | 733 | 685 | 783 | 699 | 833 | 713 | 883 | 726 | 933 | 739 | 983 | 751 |
| 534 | 620 | 584 | 638 | 634 | 654 | 684 | 670 | 734 | 685 | 784 | 699 | 834 | 713 | 884 | 726 | 934 | 739 | 984 | 751 |
| 535 | 620 | 585 | 638 | 635 | 655 | 685 | 670 | 735 | 685 | 785 | 700 | 835 | 713 | 885 | 726 | 935 | 739 | 985 | 751 |
| 536 | 621 | 586 | 638 | 636 | 655 | 686 | 671 | 736 | 686 | 786 | 700 | 836 | 714 | 886 | 727 | 936 | 739 | 986 | 751 |
| 537 | 621 | 587 | 639 | 637 | 655 | 687 | 671 | 737 | 686 | 787 | 700 | 837 | 714 | 887 | 727 | 937 | 740 | 987 | 752 |
| 538 | 621 | 588 | 639 | 638 | 656 | 688 | 671 | 738 | 686 | 788 | 700 | 838 | 714 | 888 | 727 | 938 | 740 | 988 | 752 |
| 539 | 622 | 589 | 639 | 639 | 656 | 689 | 672 | 739 | 686 | 789 | 701 | 839 | 714 | 889 | 727 | 939 | 740 | 989 | 752 |
| 540 | 622 | 590 | 640 | 640 | 656 | 690 | 672 | 740 | 687 | 790 | 701 | 840 | 715 | 890 | 728 | 940 | 740 | 990 | 752 |
| 541 | 623 | 591 | 640 | 641 | 657 | 691 | 672 | 741 | 687 | 791 | 701 | 841 | 715 | 891 | 728 | 941 | 741 | 991 | 753 |
| 542 | 623 | 592 | 640 | 642 | 657 | 692 | 672 | 742 | 687 | 792 | 702 | 842 | 715 | 892 | 728 | 942 | 741 | 992 | 753 |
| 543 | 623 | 593 | 641 | 643 | 657 | 693 | 673 | 743 | 688 | 793 | 702 | 843 | 715 | 893 | 728 | 943 | 741 | 993 | 753 |
| 544 | 624 | 594 | 641 | 644 | 657 | 694 | 673 | 744 | 688 | 794 | 702 | 844 | 716 | 894 | 729 | 944 | 741 | 994 | 753 |
| 545 | 624 | 595 | 641 | 645 | 658 | 695 | 673 | 745 | 688 | 795 | 702 | 845 | 716 | 895 | 729 | 945 | 742 | 995 | 754 |
| 546 | 624 | 596 | 642 | 646 | 658 | 696 | 674 | 746 | 689 | 796 | 703 | 846 | 716 | 896 | 729 | 946 | 742 | 996 | 754 |
| 547 | 625 | 597 | 642 | 647 | 658 | 697 | 674 | 747 | 689 | 797 | 703 | 847 | 717 | 897 | 730 | 947 | 742 | 997 | 754 |
| 548 | 625 | 598 | 642 | 648 | 659 | 698 | 674 | 748 | 689 | 798 | 703 | 848 | 717 | 898 | 730 | 948 | 742 | 998 | 754 |
| 549 | 625 | 599 | 643 | 649 | 659 | 699 | 675 | 749 | 689 | 799 | 704 | 849 | 717 | 899 | 730 | 949 | 743 | 999 | 755 |
| 550 | 626 | 600 | 643 | 650 | 659 | 700 | 675 | 750 | 690 | 800 | 704 | 850 | 717 | 900 | 730 | 950 | 743 | 1000 | 755 |

Where the number of livestock units is greater than 1 000, the distance in **metres** is obtained by the following formula:

$$\text{Distance} = e^{4.4593 + 0.3137 \ln(\text{number of livestock units})}$$

SCHEDULE C**ODOUR COEFFICIENT PER GROUP OR CATEGORY OF ANIMALS (PARAMETER C)¹**

| Group or category of animals | Parameter C |
|-------------------------------------|--------------------|
| Beef cattle | |
| - in a closed facility | 0.7 |
| - in an outdoor feeding area | 0.8 |
| Dairy cattle | 0.7 |
| Ducks | 0.7 |
| Horses | 0.7 |
| Goats | 0.7 |
| Turkeys | |
| - in a closed facility | 0.7 |
| - in an outdoor feeding area | 0.8 |
| Rabbits | 0.8 |
| Sheep | 0.7 |
| Hogs | 1.0 |
| Hens | |
| - laying hens in cages | 0.8 |
| - breeder hens | 0.8 |
| - broiler hens / large chickens | 0.7 |
| - pullets | 0.7 |
| Foxes | 1.1 |
| Slaughter calves | |
| - veal calves | 1.0 |
| - grain-fed calves | 0.8 |
| Mink | 1.1 |

SCHEDULE D**MANURE TYPE (PARAMETER D)**

| Farm manure management practices | Parameter D |
|--|--------------------|
| Solid manure | |
| Dairy and beef cattle, horses, sheep and goats | 0.6 |
| Other groups or categories of animals | 0.8 |
| Liquid manure | |
| Dairy and beef cattle | 0.8 |
| Other groups or categories of animals | 1.0 |

SCHEDULE E**PROJECT TYPE (PARAMETER E)**

[new project or increase in the number of livestock units]

| Increase² up to (l.u.) | Parameter E | Increase up to(l.u.) | Parameter E |
|--|--------------------|---------------------------------|--------------------|
| 10 or less | 0.50 | 141-145 | 0.68 |
| 11-20 | 0.51 | 146-150 | 0.69 |
| 21-30 | 0.52 | 151-155 | 0.70 |
| 31-40 | 0.53 | 156-160 | 0.71 |
| 41-50 | 0.54 | 161-165 | 0.72 |
| 51-60 | 0.55 | 166-170 | 0.73 |
| 61-70 | 0.56 | 171-175 | 0.74 |
| 71-80 | 0.57 | 176-180 | 0.75 |
| 81-90 | 0.58 | 181-185 | 0.76 |
| 91-100 | 0.59 | 186-190 | 0.77 |
| 101-105 | 0.60 | 191-195 | 0.78 |
| 106-110 | 0.61 | 196-200 | 0.79 |
| 111-115 | 0.62 | 201-205 | 0.80 |
| 116-120 | 0.63 | 206-210 | 0.81 |
| 121-125 | 0.64 | 211-215 | 0.82 |
| 126-130 | 0.65 | 216-220 | 0.83 |
| 131-135 | 0.66 | 221-225 | 0.84 |
| 136-140 | 0.67 | 226 and more or new project | 1.00 |

¹ For all other animal species, use parameter C = 0.8. That factor does not apply to dogs, the nuisance related with that type of livestock being more a noise problem than an odour problem.

² To be considered depending on the total targeted number of animals in the herd, whether or not buildings are expanded or built. For any project resulting in a total of 226 livestock units or more and for new projects, parameter E = 1.

SCHEDULE F

ATTENUATION FACTOR (PARAMETER F)

$$F = F_1 \times F_2 \times F_3$$

| Technology | Parameter F |
|--|--|
| Roof over storage site | F₁ |
| - absent | 1.0 |
| - rigid, permanent | 0.7 |
| - temporary (layer of peat, plastic cover) | 0.9 |
| Ventilation | F₂ |
| - natural and forced with multiple air outlets | 1.0 |
| - forced with grouped air outlets and air outlets above roof | 0.9 |
| - forced with grouped air outlets with air washer or biological filters | 0.8 |
| Other technologies | F₃ |
| - new technologies may be used to reduce distances when their efficiency has been proven | Factor to be determined upon accreditation |

SCHEDULE G

USE FACTORS (PARAMETER G)

| Intended use | Factor |
|------------------------|--------|
| Protected immovable | 1.0 |
| Dwelling | 0.5 |
| Urbanization perimeter | 1.5 |

5802

Index Statutory Instruments

Abbreviations: **A**: Abrogated, **N**: New, **M**: Modified

| Regulations — Statutes | Page | Comments |
|---|-------------|-----------------|
| Guidelines respecting odours caused by manure from agricultural activities . . . (An Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions, 2001, c. 35) | 1919A | N |
| Guidelines respecting odours caused by manure from agricultural activities . . . (An Act to amend the Act to preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities, 1996, c. 26) | 1919A | N |
| Preservation of agricultural land and agricultural activities and other legislative provisions, An Act to amend the Act respecting the... — Guidelines respecting odours caused by manure from agricultural activities (2001, c. 35) | 1919A | N |
| Preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities, An Act to amend the Act to... — Guidelines respecting odours caused by manure from agricultural activities (1996, c. 26) | 1919A | N |

