

Appendix 5 – Tabular summary of information on resources of protected species of plant and animals in the area of Task and its surroundings

This appendix to the Environmental Management Plan (EMP) for Task *1B.6/2 Wężyska – Chlebowo* includes a summary of information on resources of protected species of plants and animals in the area of Task and its surroundings.

Table 1. Specification of rare and protected species of plants within the Task area

| No. | Name | Protection status | Regional/national Red List assessment | Population resources (specimens or area) | No of stands | Location |
|---------------------------------------------------|------------------------------------------------|-------------------|---------------------------------------|------------------------------------------|--------------|------------------------------------------------------------------------------------------|
| Vascular plants | | | | | | |
| 1. | Common centaury <i>Centaurea erythraea</i> | PP | none | ca. 10 sp. | 1 | the existing flood embankment along the Odra river, in the vicinity of chainage km 0+700 |
| 2. | Dwarf everlast <i>Helichrysum arenarium</i> | PP | none | common | abundant | widespread |
| <u>Protection status: PP – partial protection</u> | | | | | | |

Table 2. Specification of protected species of invertebrates within the Task area

| No. | Name | Protection status | Estimated number of specimens | Occurrence |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------|-------------------------------|------------------------------------------------------------------------------------------------------|
| 1. | Bumblebee <i>Bombus spp.</i> | PP | abundant | within the whole area of Task |
| 2. | Lesser searcher beetle <i>Calosoma inquisitor</i> | PP | 1 sp. | on the trunk of an oak tree in the eastern part of the flood embankment |
| 3. | Beetles <i>Carabus spp.</i> | PP | abundant | within the whole area of Task |
| 4. | Green gomphid <i>Ophiogomphus cecilia</i> | SP, HDII | 10-20 sp. | on the meadows near the Odra river, at the height of the flood embankment not planned for demolition |
| 5. | River clubtail <i>Gomphus flavipes</i> | PP | 1 sp. | near the flood embankment |
| 6. | Yellow-spotted whiteface <i>Leucorrhinia pectoralis</i> | SP, HDII | no data | potentially within the whole area of Task |
| 7. | Large copper <i>Lycaena dispar</i> | SP, HDII | no data | in meadow habitats on the flood embankment and in its near vicinity, west of Połęcka-Chlebowo road |
| 8. | Scarce large blue butterfly <i>Phengaris teleius</i> (<i>Maculinea teleius</i>) | SP, HDII | 10-20 sp. | in meadow habitats on the flood embankment and in its near vicinity, west of Połęcka-Chlebowo road |
| 9. | Dusky large blue butterfly <i>Phengaris nausithous</i> (<i>Maculinea nausithous</i>) | SP, HDII | ca. 100 sp. | in meadow habitats on the flood embankment and in its near vicinity, west of Połęcka-Chlebowo road |
| 10. | Whorl snails <i>Vertigo spp.</i> | PP | no data | potentially in damp places in the area of Task |
| <u>Protection status:</u> SP – strict protection, PP – partial protection, HDII – Annex II of the Habitat Directive | | | | |

Table 3. Specification of protected fish species within the range of impact of the Task

| No. | Name | Protection status | Odra riverbed | Water reservoirs on the banks of Odra |
|-----------------------------------------------------------------------|---------------------------------------------------|-------------------|---------------|---------------------------------------|
| 1. | River lamprey <i>Lampetra fluviatilis</i> | SP | + | – |
| 2. | European bitterling <i>Rhodeus amarus</i> | PP | + | + |
| 3. | Spined loach <i>Cobitis taenia</i> | PP | + | + |
| 4. | European weatherfish <i>Misgurnus fossilis</i> | PP | + | + |
| Protection status: SP – strict protection, PP – partial protection | | | | |

Table 4. Specification of protected species of amphibians and reptiles within the Task area

| No. | Name | Protection status | Occurrence |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------|--------------------------------------|
| 1. | Smooth newt <i>Triturus vulgaris</i> | PP | water reservoirs in the area of Task |
| 2. | Great crested newt <i>Triturus cristatus</i> | SP, HDII | water reservoirs in the area of Task |
| 3. | Common toad <i>Bufo bufo</i> | PP | within the whole area of Task |
| 4. | European green toad <i>Pseudepidalea viridis</i> | SP | water reservoirs in the area of Task |
| 5. | Common frog <i>Rana temporaria</i> | PP | within the whole area of Task |
| 6. | Moor frog <i>Rana arvalis</i> | SP | within the whole area of Task |
| 7. | Edible frog <i>Pelophylax esculentus</i> | PP | water reservoirs in the area of Task |
| 8. | Marsh frog <i>Pelophylax ridibundus</i> | PP | water reservoirs in the area of Task |
| 9. | Pool frog <i>Pelophylax lessonae</i> | PP | water reservoirs in the area of Task |
| 10. | Fire-bellied toad <i>Bombina bombina</i> | SP, HDII | water reservoirs in the area of Task |
| 11. | Common spadefoot <i>Pelobates fuscus</i> | SP | water reservoirs in the area of Task |
| 12. | European tree frog <i>Hyla arborea</i> | SP | water reservoirs in the area of Task |
| 13. | Sand lizard <i>Lacerta agilis</i> | PP | within the whole area of Task |
| 14. | Viviparous lizard <i>Zootoca vivipara</i> | PP | within the whole area of Task |
| 15. | Slow worm <i>Anguis fragilis</i> | PP | within the whole area of Task |
| 16. | Grass snake <i>Natrix natrix</i> | PP | within the whole area of Task |
| <p><u>Protection status:</u> SP – strict protection, PP – partial protection, HDII – Annex II of the Habitat Directive</p> | | | |

Table 5. Specification of protected species of birds within the Task area

| No. | Name | Protection status | Number of breeding pairs | Status in the area |
|-----|-----------------------------------------------------|-------------------|--------------------------|--------------------|
| 1. | Mute swan <i>Cygnus olor</i> | SP | 0 | a, f |
| 2. | Common goldeneye <i>Bucephala clangula</i> | SP | 2 | b, f |
| 3. | Common merganser <i>Mergus merganser</i> | SP | 1 | b, f |
| 4. | Grey heron <i>Ardea cinerea</i> | SP | 0 | a, f |
| 5. | Black kite <i>Milvus migrans</i> | SP, BDI | 0 | a, f |
| 6. | Red kite <i>Milvus milvus</i> | SP, BDI | 0 | a, f |
| 7. | Eurasian sparrowhawk <i>Accipiter nisus</i> | SP | 0 | a, f |
| 8. | Common buzzard <i>Buteo buteo</i> | SP | 2 | b, f |
| 9. | Osprey <i>Pandion haliaetus</i> | SP | 0 | a, f |
| 10. | Common kestrel <i>Falco tinnunculus</i> | SP | 1 | b, f |
| 11. | Crane <i>Grus grus</i> | SP | 0 | a, f |
| 12. | Common snipe <i>Gallinago gallinago</i> | SP | 1 | b, f |
| 13. | Black-headed gull <i>Larus ridibundus</i> | SP | 0 | a, f |
| 14. | Common cuckoo <i>Cuculus canorus</i> | SP | common | b, f |
| 15. | Eurasian wryneck <i>Jynx torquilla</i> | SP | 2 | b, f |
| 16. | Green woodpecker <i>Picus viridis</i> | SP | 1 | b, f |
| 17. | Great spotted woodpecker <i>Dendrocopos major</i> | SP | common | b, f |
| 18. | Middle spotted woodpecker <i>Dendrocopos medius</i> | SP, BDI | 4 | b, f |
| 19. | Lesser spotted woodpecker <i>Dendrocopos minor</i> | SP | 1 | b, f |
| 20. | Eurasian skylark <i>Alauda arvensis</i> | SP | common | b, f |
| 21. | Barn swallow <i>Hirundo rustica</i> | SP | 0 | a, f |
| 22. | Common house martin <i>Delichon urbica</i> | SP | 0 | a, f |
| 23. | Tree Pipit <i>Anthus trivialis</i> | SP | common | b, f |
| 24. | Meadow pipit <i>Anthus pratensis</i> | SP | common | b, f |
| 25. | Yellow wagtail <i>Motacilla flava</i> | SP | common | b, f |
| 26. | White wagtail <i>Motacilla alba</i> | SP | common | b, f |
| 27. | Eurasian wren <i>Troglodytes troglodytes</i> | SP | common | b, f |
| 28. | Dunnock <i>Prunella modularis</i> | SP | common | b, f |
| 29. | European robin <i>Erithacus rubecula</i> | SP | common | b, f |
| 30. | Common nightingale <i>Luscinia megarhynchos</i> | SP | common | b, f |
| 31. | Whinchat <i>Saxicola rubetra</i> | SP | common | b, f |
| 32. | European stonechat <i>Saxicola rubicola</i> | SP | 1 | b, f |
| 33. | Common blackbird <i>Turdus merula</i> | SP | common | b, f |
| 34. | Fieldfare <i>Turdus pilaris</i> | SP | common | b, f |

| No. | Name | Protection status | Number of breeding pairs | Status in the area |
|-----|-----------------------------------------------------|-------------------|--------------------------|--------------------|
| 35. | Song thrush <i>Turdus philomelos</i> | SP | common | b, f |
| 36. | Redwing <i>Turdus iliacus</i> | SP | 0 | a, f |
| 37. | Grasshopper warbler <i>Locustella naevia</i> | SP | 2 | b, f |
| 38. | River warbler <i>Locustella fluviatilis</i> | SP | 1 | b, f |
| 39. | Marsh warbler <i>Acrocephalus palustris</i> | SP | common | b, f |
| 40. | Reed warbler <i>Acrocephalus scirpaceus</i> | SP | common | b, f |
| 41. | Great reed warbler <i>Acrocephalus arundinaceus</i> | SP | 5 | b, f |
| 42. | Icterine warbler <i>Hippolais icterina</i> | SP | common | b, f |
| 43. | Lesser whitethroat <i>Sylvia curucca</i> | SP | common | b, f |
| 44. | Common whitethroat <i>Sylvia communis</i> | SP | common | b, f |
| 45. | Garden warbler <i>Sylvia borin</i> | SP | common | b, f |
| 46. | Eurasian blackcap <i>Sylvia atricapilla</i> | SP | common | b, f |
| 47. | Barred warbler <i>Sylvia nisoria</i> | SP, BDI | 1 | b, f |
| 48. | Common chiffchaff <i>Phylloscopus collybita</i> | SP | common | b, f |
| 49. | Willow warbler <i>Phylloscopus trochilus</i> | SP | common | b, f |
| 50. | Spotted flycatcher <i>Muscicapa striata</i> | SP | common | b, f |
| 51. | Long-tailed tit <i>Aegithalos caudatus</i> | SP | common | b, f |
| 52. | Marsh tit <i>Poecilla palustris</i> | SP | common | b, f |
| 53. | Willow tit <i>Poecilla montana</i> | SP | common | b, f |
| 54. | Eurasian blue tit <i>Cyanistes careuleus</i> | SP | common | b, f |
| 55. | Great tit <i>Parus major</i> | SP | common | b, f |
| 56. | Eurasian nuthatch <i>Sitta europaea</i> | SP | common | b, f |
| 57. | Eurasian treecreeper <i>Certhia familiaris</i> | SP | common | b, f |
| 58. | Short-toed treecreeper <i>Certhia brachydactyla</i> | SP | common | b, f |
| 59. | Oriole <i>Oriolus oriolus</i> | SP | common | b, f |
| 60. | Red-backed shrike <i>Lanius collurio</i> | SP, BDI | ca. 6 | b, f |
| 61. | Hooded crow <i>Corvus cornix</i> | PP | common | b, f |
| 62. | Common raven <i>Corvus corax</i> | PP | 0 | a, f |
| 63. | Eurasian jay <i>Garrulus glandarius</i> | SP | common | b, f |
| 64. | Common starling <i>Sturnus vulgaris</i> | SP | common | b, f |
| 65. | Eurasian tree sparrow <i>Passer montanus</i> | SP | common | b, f |
| 66. | Common chaffinch <i>Fringilla coelebs</i> | SP | common | b, f |
| 67. | European greenfinch <i>Carduelis chloris</i> | SP | common | b, f |
| 68. | European goldfinch <i>Carduelis carduelis</i> | SP | common | b, f |
| 69. | Common Linnet <i>Carduelis cannabina</i> | SP | common | b, f |

| No. | Name | Protection status | Number of breeding pairs | Status in the area |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------|--------------------------|--------------------|
| 70. | Red crossbill <i>Loxia curvirostra</i> | SP | 0 | a, f |
| 71. | Hawfinch <i>Coccothraustes coccothraustes</i> | SP | common | b, f |
| 72. | Yellowhammer <i>Emberiza citrinella</i> | SP | common | b, f |
| 73. | Reed bunting <i>Emberiza schoeniclus</i> | SP | common | b, f |
| 74. | Corn bunting <i>Emberiza calandra</i> | SP | common | b, f |
| <p><u>Protection status:</u> SP – strict protection, PP – partial protection, BDI – Annex I of the Bird Directive</p> <p><u>Status in the area:</u> b – breeding species, a – species rarely appearing in the area, f – species feeding in the area</p> | | | | |

Table 6. Specification of protected species of flightless mammals within the Task area

| No. | Name | Protection status | Number | Occurrence |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|----------|-------------------------------------------|
| 1. | Eurasian beaver <i>Castor fiber</i> | PP, HDII | numerous | within the whole area of Task |
| 2. | Eurasian otter <i>Lutra lutra</i> | PP, HDII | numerous | within the whole area of Task |
| 3. | Common shrew <i>Sorex araneus</i> | PP | no data | potentially within the whole area of Task |
| 4. | Eurasian pygmy shrew <i>Sorex minutus</i> | PP | no data | potentially within the whole area of Task |
| 5. | Eurasian water shrew <i>Neomys fodiens</i> | PP | no data | potentially within the whole area of Task |
| 6. | Lesser white-toothed shrew <i>Crocidura suaveolens</i> | PP | no data | potentially within the whole area of Task |
| <p><u>Protection status:</u> PP – partial protection, HDII – Annex II of the Habitat Directive</p> | | | | |

Table 7. Specification of protected bat species within the Task area

| No. | Name | Protection status | Occurrence |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------|-------------------------------|
| 1. | Common noctule <i>Nyctalus noctula</i> | SP, HDIV | within the whole area of Task |
| 2. | Daubenton's bat <i>Myotis daubentonii</i> | SP, HDIV | within the whole area of Task |
| <p><u>Protection status:</u> SP – strict protection, HDIV – Annex IV of the Habitat Directive</p> | | | |