

Piezīmes un atsauces vietas līmeņa aizsardzības mērķa (CO) noteikšanai: datu izvēle un eksperta pieņēmumi

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|-------------------------------------|---|
| Sugas kods | 1032 |
| Sugas nosaukums | <i>Unio crassus</i> |
| Natura 2000 teritorijas kods | LV0514200 |
| Natura 2000 teritorijas kods | Raķupes ieleja |
| Eksperti | Mudīte Rudzīte, Otars Opermanis |
| Darbs pabeigts | 16.01.2023. |
| Vispārējās piezīmes | <p>Dabas liegumam “Raķupes ieleja” cauri plūst Raķupe un Pāces upes lejtece. Dabas lieguma teritorijā biežā perlamutrene <i>Unio crassus</i> ir sastopama gan Pācē, gan Raķupē.</p> <p>Raķupes tecējums dabas lieguma robežās lielākoties ir dabisks, nepārveidots, izņemot posmu pirms sateces ar Pāci, kas ir iztaisnots un ievadīts kanālā (BVF 2007). Posma iztaisnošana negatīvi ietekmējusi upes hidroloģisko režīmu. Palu ūdeņi tiek relatīvi ātri novadīti, savukārt vasaras periodā regulētos upju posmos ūdens parasti trūkst. Vasarās novērojama pazemināta skābekļa koncentrācija un ūdens temperatūras palielināšanās līdz netipiski augstam līmenim. Raķupes iztaisnotais posms nav piemērots biežajai perlamutrenei (BVF 2007).</p> <p>Pāces upi ietekmē ūdens līmeņa svārstības, ko izraisa Pāces hidroelektrostacijas darbība. Bieži upes ūdens ir nepietiekami, tas apdraud zivju resursus un biežās perlamutrenes populāciju. Tomēr dabas aizsardzības plānā (BVF 2007) vērtēts, ka Pāces upe dabas lieguma teritorijā visā garumā ir piemērota biežajai perlamutrenei.</p> <p>Abās upēs dabas lieguma teritorijā biežā perlamutrene veido lielas indivīdu koncentrācijas atsevišķos posmos (BVF 2007).</p> <p>Raķupes ihtiofauna pētīta tikai EMERALD/Natura 2000 projektā no 2000. līdz 2001. gadam (nepublicēti dati). Raķupes un Pāces lejteces apsekošana veikta arī 2006. gada jūlijā, veicot lauka pētījumus dabas aizsardzības plānā (BVF 2007) sagatavošanai.</p> |

| Lauks | Paskaidrojums |
|-------------------------|--|
| CV_USE | 68454,4 ind. – ģeometriskais vidējais starp <i>popmin</i> (22 000 ind.) un <i>popmax</i> (213 000 ind.). Aprēķinos izmantoti dati no Natura 2000 datu bāzes SDF, datu sākotnējais avots ir Natura 2000 vietu bezmugurkaulnieku sugu monitorings 2016.–2017. gadā, datu kvalitāte vērtēta kā vidēja). Dabas aizsardzības plānā (BVF, 2007) biežās perlamutrenes indivīdu skaits dabas liegumā “Raķupes ieleja” nav norādīts. |
| Unit_CV | Indivīds |
| Habitat | Annex I viens |
| Annex I | 3260 |
| Annex I_area_USE | <p>7,8 ha</p> <p>Piemērotās dzīvotnes platība aprēķināta, izmantojot 2018. gada ES nozīmes saldūdeņu biotopu kartējumu dabas liegumā “Raķupes ieleja” (DDPS “Ozols” dati 16.01.2023.). Kā sugai piemērota dzīvotne atzīmēts ES nozīmes biotops 3260 <i>Upju straujtecēs un dabiski upju posmi</i>.</p> <p>Pieņemts, ka biežajai perlamutrenei piemērota dzīvotne ir Pāces upe dabas lieguma robežās (ap 6,8 ha), kā arī daļa Raķupes, kas atzīmēta kā sugas dzīvotnes DDPS “Ozols” (datu avots, visticamāk, ir 2007. gadā apstiprinātais</p> |

| Lauks | Paskaidrojums | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--------|------------------------|---------|-------------|---------|-----------|--------------------------|---|---|-----|-----------|----------------|---|---|-----|-----------|---------------|---|-------|-----|-----------|---------|---|------|-----|-----------|---------------------------|-----|----|-----|-----------|-------------|-------|------|-----|-----------|--------------------|-----|----|------|-----------|--------|----|------|------|-----------|---------------|----|---|------|-----------|--------------------------|-----|------|------|-----------|-----------|----|------|-------|-----------|-----------------|------|------|-------|-----------|---------------|------|------|-------|-----------|----------------|-------|------|-------|-----------|----------------|------|-----|-------|-----------|------|------|----|-------|-----------|-------|------|------|-------|-----------|---------------------------|-------|------|-------|-----------|----------------|------|-----|-------|-----------|---------------------|------|-----|--------|-----------|----------------|-------|------|--------|-----------|----------------|--------|--------|--------|-----------|-------|-------|-------|--------|-----------|--------------|-------|-----|--------|
| | dabas aizsardzības plans (BVF, 2007) – posms pie Pāces ietekas un kā arī vidustece pie Upeniekiem – kopā apmēram 1 ha 3260 biotopa. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other_area_USE | Na | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OK_DEN | Šajā Natura 2000 vietā blīvums novērtēts kā pietiekams (skat. pamatojumu zemāk). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OPT_DEN | <p>Tabula zemāk parāda gliemeņu blīvuma rādītāju (gliemenes/ha) 33 Natura 2000 teritorijās, kurās reģistrēta biežā perlamutrene.</p> <p>Blīvuma datu analīzē tika identificētas sekojošas (nosacītas) blīvumu zonas: augsts blīvums (8470,3 gliemenes/ha un vairāk), vidēji augsts (1259–5600 gliemenes/ha) un zems (acīmredzami nepietiekams) – mazāk nekā 1259 gliemenes/ha). Lai atvieglotu aprēķinus, par optimālā blīvuma vērtību, definēta “apaļā” vērtība – 6000 gliemenes/ha (sarkanā līnija tabulā zemāk), kas ir arbitrārs noapaļojums uz augšu no vidējās sadalījuma grupas, ņemot vērā sugas un tās dzīvotņu – mazo upju – aizsardzības stāvokli, eksperta pieredzi un arī to, ko var sasniegt Latvijas apstākļos.</p> <p>Pēc FRV un CO summas salīdzināšanas un konstatētās nesakritības, tika nolemts pazemināt optimālo blīvumu no 6000 īp./ha līdz 3763 īp./ha. Apsvērumi izklāstīti projekta gala atskaitē (20. lpp.). Izmaiņas veiktas aprēķinos CO darba tabulā, bet nav atspoguļotas tabulā zemāk.</p> <table><tr><th>Kods</th><th>Natura 2000 teritorija</th><th>CV_USE</th><th>Annex I_USE</th><th>Blīvums</th></tr><tr><td>LV0523100</td><td>Lielupes palienes pļavas</td><td>0</td><td>0</td><td>0,0</td></tr><tr><td>LV0507800</td><td>Liepājas ezers</td><td>0</td><td>0</td><td>0,0</td></tr><tr><td>LV0535400</td><td>Rūjas paliene</td><td>0</td><td>17,48</td><td>0,0</td></tr><tr><td>LV0300700</td><td>Tērvete</td><td>0</td><td>1,63</td><td>0,0</td></tr><tr><td>LV0507200</td><td>Ventas un Šķerveļa ieleja</td><td>157</td><td>47</td><td>3,3</td></tr><tr><td>LV0600400</td><td>Augšdaugava</td><td>10000</td><td>1560</td><td>6,4</td></tr><tr><td>LV0305100</td><td>Aiviekstes paliene</td><td>346</td><td>23</td><td>15,0</td></tr><tr><td>LV0524100</td><td>Mežole</td><td>57</td><td>2,78</td><td>20,5</td></tr><tr><td>LV0415600</td><td>Zaņas lejtece</td><td>70</td><td>3</td><td>23,3</td></tr><tr><td>LV0200200</td><td>Ķemeru Nacionālais parks</td><td>758</td><td>8,83</td><td>85,8</td></tr><tr><td>LV0523200</td><td>Ukru gārš</td><td>63</td><td>0,48</td><td>131,3</td></tr><tr><td>LV0528800</td><td>Mugurves pļavas</td><td>2924</td><td>12,6</td><td>232,1</td></tr><tr><td>LV0507100</td><td>Ventas ieleja</td><td>3200</td><td>10,8</td><td>296,3</td></tr><tr><td>LV0302200</td><td>Salacas ieleja</td><td>14142</td><td>32,8</td><td>431,2</td></tr><tr><td>LV0524500</td><td>Ruņupes ieleja</td><td>2900</td><td>5,8</td><td>500,0</td></tr><tr><td>LV0304200</td><td>Kuja</td><td>7750</td><td>15</td><td>516,7</td></tr><tr><td>LV0528100</td><td>Šepka</td><td>2450</td><td>4,55</td><td>538,5</td></tr><tr><td>LV0532000</td><td>Sitas un Pededzes paliene</td><td>10000</td><td>11,4</td><td>877,2</td></tr><tr><td>LV0530500</td><td>Vitrupe ieleja</td><td>5831</td><td>6,2</td><td>940,5</td></tr><tr><td>LV0523400</td><td>Ances purvi un meži</td><td>1889</td><td>1,5</td><td>1259,3</td></tr><tr><td>LV0302100</td><td>Abavas senleja</td><td>54083</td><td>23,9</td><td>2262,9</td></tr><tr><td>LV0536600</td><td>Lubāna mitrājs</td><td>300678</td><td>110,42</td><td>2723,0</td></tr><tr><td>LV0528000</td><td>Rauza</td><td>72664</td><td>19,31</td><td>3763,0</td></tr><tr><td>LV0531300</td><td>Pāces pļavas</td><td>15420</td><td>3,5</td><td>4405,7</td></tr></table> | Kods | Natura 2000 teritorija | CV_USE | Annex I_USE | Blīvums | LV0523100 | Lielupes palienes pļavas | 0 | 0 | 0,0 | LV0507800 | Liepājas ezers | 0 | 0 | 0,0 | LV0535400 | Rūjas paliene | 0 | 17,48 | 0,0 | LV0300700 | Tērvete | 0 | 1,63 | 0,0 | LV0507200 | Ventas un Šķerveļa ieleja | 157 | 47 | 3,3 | LV0600400 | Augšdaugava | 10000 | 1560 | 6,4 | LV0305100 | Aiviekstes paliene | 346 | 23 | 15,0 | LV0524100 | Mežole | 57 | 2,78 | 20,5 | LV0415600 | Zaņas lejtece | 70 | 3 | 23,3 | LV0200200 | Ķemeru Nacionālais parks | 758 | 8,83 | 85,8 | LV0523200 | Ukru gārš | 63 | 0,48 | 131,3 | LV0528800 | Mugurves pļavas | 2924 | 12,6 | 232,1 | LV0507100 | Ventas ieleja | 3200 | 10,8 | 296,3 | LV0302200 | Salacas ieleja | 14142 | 32,8 | 431,2 | LV0524500 | Ruņupes ieleja | 2900 | 5,8 | 500,0 | LV0304200 | Kuja | 7750 | 15 | 516,7 | LV0528100 | Šepka | 2450 | 4,55 | 538,5 | LV0532000 | Sitas un Pededzes paliene | 10000 | 11,4 | 877,2 | LV0530500 | Vitrupe ieleja | 5831 | 6,2 | 940,5 | LV0523400 | Ances purvi un meži | 1889 | 1,5 | 1259,3 | LV0302100 | Abavas senleja | 54083 | 23,9 | 2262,9 | LV0536600 | Lubāna mitrājs | 300678 | 110,42 | 2723,0 | LV0528000 | Rauza | 72664 | 19,31 | 3763,0 | LV0531300 | Pāces pļavas | 15420 | 3,5 | 4405,7 |
| Kods | Natura 2000 teritorija | CV_USE | Annex I_USE | Blīvums | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0523100 | Lielupes palienes pļavas | 0 | 0 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0507800 | Liepājas ezers | 0 | 0 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0535400 | Rūjas paliene | 0 | 17,48 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0300700 | Tērvete | 0 | 1,63 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0507200 | Ventas un Šķerveļa ieleja | 157 | 47 | 3,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0600400 | Augšdaugava | 10000 | 1560 | 6,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0305100 | Aiviekstes paliene | 346 | 23 | 15,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0524100 | Mežole | 57 | 2,78 | 20,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0415600 | Zaņas lejtece | 70 | 3 | 23,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0200200 | Ķemeru Nacionālais parks | 758 | 8,83 | 85,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0523200 | Ukru gārš | 63 | 0,48 | 131,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0528800 | Mugurves pļavas | 2924 | 12,6 | 232,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0507100 | Ventas ieleja | 3200 | 10,8 | 296,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0302200 | Salacas ieleja | 14142 | 32,8 | 431,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0524500 | Ruņupes ieleja | 2900 | 5,8 | 500,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0304200 | Kuja | 7750 | 15 | 516,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0528100 | Šepka | 2450 | 4,55 | 538,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0532000 | Sitas un Pededzes paliene | 10000 | 11,4 | 877,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0530500 | Vitrupe ieleja | 5831 | 6,2 | 940,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0523400 | Ances purvi un meži | 1889 | 1,5 | 1259,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0302100 | Abavas senleja | 54083 | 23,9 | 2262,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0536600 | Lubāna mitrājs | 300678 | 110,42 | 2723,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0528000 | Rauza | 72664 | 19,31 | 3763,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV0531300 | Pāces pļavas | 15420 | 3,5 | 4405,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Lauks | Paskaidrojums | | | | |
|---------------------|---|--------------------------|---------|------|---------|
| | LV0301100 | Riežupe | 537 | 0,1 | 5370,0 |
| | LV0525900 | Jaunanna | 14000 | 2,5 | 5600,0 |
| | LV0528200 | Launkalne | 37947 | 4,48 | 8470,3 |
| | LV0514200 | Raķupes ieleja | 68454 | 7,8 | 8776,2 |
| | LV0304500 | Ogres ieleja | 258600 | 25 | 10344,0 |
| | LV0600700 | Ziemeļgauja | 118321 | 9,18 | 12889,0 |
| | LV0304900 | Vilce | 411 | 0,03 | 13700,0 |
| | LV0200100 | Gaujas Nacionālais parks | 1312626 | 83,6 | 15701,2 |
| | LV0304800 | Vecumu meži | 84852 | 1,5 | 56568,0 |
| OK_NEW | Na | | | | |
| AREA_NEW | Na | | | | |
| OK_INT | Na | | | | |
| IND_INT | Na | | | | |
| Papildus nosacījumi | Nepieciešama biotopa kvalitātes uzlabošana. | | | | |
| Cits lauks | | | | | |

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