

## SUMMARY

In compliance with the legal and administrative acts of the Republic of Latvia the “**The balance of reserves of minerals (construction raw materials, peat and curative mud )**” is prepared every year, incorporating data on the volume of mineral extraction for the previous year. The Latvian Environment, Geology and Meteorology Agency (LEGMA) maintains the balance since 2005.

The balance of reserves is prepared for each kind of mineral, singling out deposits of state importance. In compliance with the regulations, the reserves are classified as explored (Category A) and evaluated (Category N).

The following sources are used for the preparation of the balance of mineral reserves: the balances for previous years, passports of deposits issued by the State Geological Survey and the Latvian Environment, Geology and Meteorology Agency, reports submitted by Regional Environmental Boards of the State Environmental Service about the extraction of minerals in 2007, LEGMA’s databases “Deposits of construction raw materials” and “Peat deposits”.

The following minerals were extracted in Latvia in 2007: **gypsum, limestone, dolomite, clay, quartz sand, sand-gravel, sand, calcareous tufa, sandy clay and clayey sand** /the group of construction raw materials/, **peat and curative mud**. The measuring unit for construction raw materials is thousand m<sup>3</sup>; that for peat - thousand tons with the moisture content 40 %; that for curative mud – thousand tons with the moisture content 90 %.

The balance of mineral reserves (construction raw materials, peat and curative mud) for 2007 contains data about the actively exploited reserves at **440 exploited** deposits. Since the number of the exploited deposits changes every year, the general tables show the volume of reserves as of January 1, 2007; that balance differs from the volume of reserves in the balance of the preceding year. It is unchanged for the reserves of gypsum, limestone, quartz sand and curative muds, since the number of the extraction locations has remained unchanged.

There are also other reasons for the changes of the reserves in the deposits except extraction: additional exploration in the territory of the deposits, re-valuation of the explored reserves due to topographic measurements in quarries in situ and calculation of the remaining reserves, re-valuation of the category of reserves and writing off of the reserves, which were not confirmed during exploitation in compliance with the procedures envisaged by the legal and administrative acts. Those changes are shown in the column “Other reasons”.

A generalisation of the balance of reserves for 2007 is presented in Tables Nos. 1, 2 and 3, the locations of the deposits are shown on the attached “Map of the locations of mineral deposits included in the balance of reserves for 2007”.

Table 1. Generalisation of the balance of reserves (construction raw materials)  
for 2007 – **mineral deposits of state importance**

No.	Mineral	Measure-ment unit	Category of reserves	Reserves as of January 1, 2007	Changes of reserves in 2007		Reserves as of January 1, 2008	Number of deposits
					Extract-ion	Other reasons		
<b>1. Construction raw materials</b>								
1.1.	<b>Gypsum</b>	thousand m <sup>3</sup>	A N	<b>4 247.19</b> 2 160.37	<b>-113.53</b> 0.00	<b>0.00</b> 0.00	<b>4 133.66</b> 2 160.37	<b>1</b>
1.2.	<b>Limestone</b>	thousand m <sup>3</sup>	A N	<b>34 823.32</b> 198 274.38	<b>-191.17</b> 0.00	<b>0.00</b> 0.00	<b>34 632.15</b> 198 274.38	<b>1</b>
1.3.	<b>Dolomite</b>	thousand m <sup>3</sup>	A N	<b>38 885.70</b> 135 879.36	<b>-1 726.70</b> -15.00	<b>1 035.39</b> 0.00	<b>38 194.39</b> 135 864.36	<b>5</b>
1.4.	<b>Clay</b>	thousand m <sup>3</sup>	A N	<b>55 826.13</b> 57 003.51	<b>-120.49</b> 0.00	<b>0.00</b> 0.00	<b>55 705.64</b> 57 003.51	<b>3</b>
1.6.	<b>Sand-gravel</b>	thousand m <sup>3</sup>	A N	<b>62 279.07</b> 132 071.00	<b>-403.08</b> 0.00	<b>0.00</b> 0.00	<b>61 875.99</b> 132 071.00	<b>2</b>
1.8.	<b>Sand-gravel and sand</b>	thousand m <sup>3</sup>	A N A N	<b>15 459.91</b> 8 164.10 <b>1 137.32</b> 284.60	<b>-228.70</b> 0.00 <b>-59.53</b> 0.00	<b>373.40</b> -81.00 <b>68.10</b> 0.00	<b>15 604.61</b> 8 083.10 <b>1 145.89</b> 284.60	<b>2</b>

Table 2. Generalisation of the balance of reserves (construction raw materials, peat and curative muds) for 2007 – **other deposits**

No.	Mineral	Measure-ment unit	Category of reserves	Reserves as of January 1, 2007	Changes of reserves in 2007		Reserves as of January 1, 2008	Number of deposits
					Extract-ion	Other reasons		
<b>1. Construction raw materials</b>								
1.1.	<b>Gypsum</b>	thousand m <sup>3</sup>	A N	<b>322.54</b> 0.00	<b>-43.77</b> 0.00	<b>0.00</b> 0.00	<b>278.77</b> 0.00	<b>1</b>
1.3.	<b>Dolomite</b>	thousand m <sup>3</sup>	A N	<b>27 935.72</b> 76 245.40	<b>-1 195.98</b> 0.00	<b>-3.98</b> 0.00	<b>26 735.76</b> 76 245.40	<b>11</b>
1.4.	<b>Clay</b>	thousand m <sup>3</sup>	A N	<b>5 127.74</b> 4 238.62	<b>-33.56</b> 0.00	<b>0.00</b> 0.00	<b>5 094.18</b> 4 238.62	<b>4</b>
1.5.	<b>Quartz sand</b>	thousand m <sup>3</sup>	A N	<b>0.00</b> 1 437.38	<b>0.00</b> -12.18	<b>0.00</b> 0.00	<b>0.00</b> 1 425.20	<b>1</b>
1.6.	<b>Sand-gravel</b>	thousand m <sup>3</sup>	A N	<b>22 459.65</b> 13 881.85	<b>-946.62</b> -15.56	<b>0.00</b> -123.00	<b>21 513.03</b> 13 743.29	<b>28</b>
1.7.	<b>Sand</b>	thousand m <sup>3</sup>	A N	<b>26 230.06</b> 5 654.05	<b>-599.16</b> -161.16	<b>102.35</b> 0.00	<b>25 733.25</b> 5 492.89	<b>70</b>
1.8.	<b>Sand-gravel and sand</b>	thousand m <sup>3</sup>	A N A N	<b>88 809.19</b> 71 535.72 <b>93 013.57</b> 24 106.48	<b>-2 431.06</b> -224.71 <b>-1 563.29</b> -238.27	<b>646.69</b> -801.02 <b>1 521.05</b> 1 477.96	<b>87 024.82</b> 70 509.99 <b>92 971.33</b> 25 346.17	<b>235</b>
1.10.	<b>Calcareous tufa</b>	thousand m <sup>3</sup>	A N	<b>0.00</b> 0.84	<b>0.00</b> -0.01	<b>0.00</b> 0.00	<b>0.00</b> 0.83	<b>1</b>
1.11.	<b>Sandy clay and clayey sand</b>	thousand m <sup>3</sup>	A N	<b>144.72</b> 267.62	<b>-32.86</b> -62.35	<b>0.00</b> 0.00	<b>111.86</b> 205.27	<b>8</b>
<b>2. - 4. Peat un curative mud</b>								
2.1.	<b>Peat</b>	thousand ton, with moisture content 40%	A N	<b>143 395.28</b> 50 838.85	<b>-500.39</b> -40.77	<b>-4 434.44</b> -11 944.00	<b>138 460.45</b> 38 854.08	<b>66</b>
4.1.	<b>Curative mud</b>	thousand ton, with moisture content 90%	A N	<b>815.97</b> 0.00	<b>-0.83</b> 0.00	<b>-131.00</b> 129.54	<b>684.14</b> 129.54	<b>1</b>

Table 3. **Summary** of the balance of reserves (construction raw materials, peat and curative muds) for 2007

No.	Mineral	Measure-ment unit	Category of reserves	Reserves as of January 1, 2007	Changes of reserves in 2007		Reserves as of January 1, 2008	Numbe r of deposit s
					Extract-ion	Other reasons		
<b>1. Construction raw materials</b>								
1.1.	<b>Gypsum</b>	thousand m <sup>3</sup>	A N	<b>4 569.73</b> 2 160.37	<b>-157.30</b> 0.00	<b>0.00</b> 0.00	<b>4 412.43</b> 2 160.37	<b>2</b>
1.2.	<b>Dolomite</b>	thousand m <sup>3</sup>	A N	<b>34 823.32</b> 198 274.38	<b>-191.17</b> 0.00	<b>0.00</b> 0.00	<b>34 632.15</b> 198 274.38	<b>1</b>
1.3.	<b>Clay</b>	thousand m <sup>3</sup>	A N	<b>66 821.42</b> 212 124.76	<b>-2 922.68</b> -15.00	<b>1 031.41</b> 0.00	<b>64 930.15</b> 212 109.76	<b>16</b>
1.4.	<b>Quartz sand</b>	thousand m <sup>3</sup>	A N	<b>60 953.87</b> 61 242.13	<b>-154.05</b> 0.00	<b>0.00</b> 0.00	<b>60 799.82</b> 61 242.13	<b>7</b>
1.5.	<b>Sand-gravel</b>	thousand m <sup>3</sup>	A N	<b>0.00</b> 1 437.38	<b>0.00</b> -12.18	<b>0.00</b> 0.00	<b>0.00</b> 1 425.20	<b>1</b>
1.6.	<b>Sand</b>	thousand m <sup>3</sup>	A N	<b>84 738.72</b> 145 952.85	<b>-1 349.70</b> -15.56	<b>0.00</b> -123.00	<b>83 389.02</b> 145 814.29	<b>30</b>
1.7.	<b>Sand-gravel and sand</b>	thousand m <sup>3</sup>	A N	<b>26 230.06</b> 5 654.05	<b>-599.16</b> -161.16	<b>102.35</b> 0.00	<b>25 733.25</b> 5 492.89	<b>70</b>
1.8.	<b>Gypsum</b>	thousand m <sup>3</sup>	A N A N	<b>104 269.10</b> 79 699.82 <b>94 150.89</b> 24 391.08	<b>-2 659.76</b> -224.71 <b>-1 622.82</b> -238.27	<b>1 020.09</b> -882.02 <b>1 589.15</b> 1 477.96	<b>102 629.43</b> 78 593.09 <b>94 117.22</b> 25 630.77	<b>237</b>
TOTAL	<b>Sand-gravel</b>	thousand m <sup>3</sup>	A N	<b>189 007.82</b> 225 652.67	<b>-4 009.46</b> -240.27	<b>1 020.09</b> -1 005.02	<b>186 018.45</b> 224 407.38	
	<b>Sand</b>	thousand m <sup>3</sup>	A N	<b>120 380.95</b> 30 045.13	<b>-2 221.98</b> -399.43	<b>1 691.50</b> 1 477.96	<b>119 850.47</b> 31 123.66	
1.10.	<b>Calcareous tufa</b>	thousand m <sup>3</sup>	A N	<b>0.00</b> 0.84	<b>0.00</b> -0.01	<b>0.00</b> 0.00	<b>0.00</b> 0.83	<b>1</b>
1.11.	<b>Sandy clay and clayey sand</b>	thousand m <sup>3</sup>	A N	<b>144.72</b> 267.62	<b>-32.86</b> -62.35	<b>0.00</b> 0.00	<b>111.86</b> 205.27	<b>8</b>
<b>2. - 4. Peat un curative mud</b>								
2.1.	<b>Peat</b>	thousand ton, with moisture content 40%	A N	<b>143 395.28</b> 50 838.85	<b>-500.39</b> -40.77	<b>-4 434.44</b> -11 944.00	<b>138 460.45</b> 38 854.08	<b>66</b>
4.1.	<b>Curative mud</b>	thousand ton, with moisture content 90%	A N	<b>815.97</b> 0.00	<b>-0.83</b> 0.00	<b>-131.00</b> 129.54	<b>684.14</b> 129.54	<b>1</b>