

## (Karta otworu wiertniczego)

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| Lokalizacja otworu - szkic<br>orientacyjny w skali 1 : 10000<br>Arkusz <i>Swinoujście</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | Miejscowość <i>Swinoujście, ul. Karłowicza</i><br>Gmina <i>Swinoujście</i><br>Województwo <i>zachodniopomorskie</i><br>Inwestor bezpośredni (użytkownik) ujęcia <i>Zakład Wodociągów i Kanalizacji Spółka z o.o. w Swinoujściu, Ujęcie "Wyrzawy"</i><br>Wykonawca (pieczęć)<br><i>"KASTOR" Tomasz Janiszewski</i><br><i>ul. Kalonia 19 B/2</i><br><i>67-321 Leszno Górne</i><br>Geolog dokument. (imię, nazwisko, podpis, data)<br><i>Łuk. Zygfryd Borekowski</i> |                                 |                                            |                                              |              |              |                                                           |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Współrzędne geograficzne: $\varphi = 53^{\circ}52'50''$ $\lambda = 16^{\circ}46'25''$<br>Rzędna wysokościowa: <i>2,81</i> m nad poziomem morza                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     | Czas trwania robót wiertniczych: od <i>08.01.2007 r.</i> do <i>31.01.2007 r.</i><br>System i sposób wiercenia: <i>uśredniono - okrężny</i><br>Sposób pobierania próbek skal: <i>z urębku</i><br>Miejsce przechowywania próbek skal: <i>ZHK Sp. z o.o. w Swinoujściu</i>                                                                                                                                                                                           |                                 |                                            |                                              |              |              |                                                           |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                      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| Wyniki badań i obliczeń hydrogeologicznych dla warstwy wodonośnej ujętej według niżej przedstawionego zrzutu konstrukcyjnego:<br>$Q_1 = 30,00$ m <sup>3</sup> /h, $S_1 = 3,59$ m, $T_1 = 48$ m, $q_1 = 0,85$ m <sup>3</sup> /h i m depresji<br>$Q_2 =$ m <sup>3</sup> /h, $S_2 =$ m, $T_2 =$ m, $q_2 =$ m <sup>3</sup> /h i m depresji<br>$Q_3 =$ m <sup>3</sup> /h, $S_3 =$ m, $T_3 =$ m, $q_3 =$ m <sup>3</sup> /h i m depresji<br>$k = 0,000314$ m/s wyznaczone na podstawie wyników przesiewu wzorem <i>Beyera</i><br>$k = 0,000225$ m/s wyznaczone na podstawie wyników próbnego pompowania wzorem <i>Dupuita</i><br>$Q$ eksploatacyjne ujęcia <i>25,00</i> m <sup>3</sup> /h, $Q$ dop. filtru <i>25,00</i> m <sup>3</sup> /h<br>Przy $Q$ eksploatacyjnym ujęcia: $S = 3,00$ m, $R = 115,0$ m |                                                                                     | Objaśnienia: <i>— dokumentowany otwór studzienny</i>                                                                                        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| Skala 1 : 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Schemat zaizolowania i zafiltrowania sposobu zamknięcia wód (rysunek konstrukcyjny) | Podany wód podziemnych w metrach poniżej poziomu nawierzchni                                                                                                                                                                                                                                                                                                                                                                                                      | Profil litologiczny (graficzny) | Głębokość w metrach poniżej poziomu terenu | Opis litologiczny warstwy, typ facjalny itp. | Stratygrafia | Klasa gruntu | Stwierdzone na głębokości wiertniczej (rodzaj i średnica) | Przebieg robót wiertniczych (zachowanie się szkieletu otworu podczas wiercenia, krępowanie otworu, zastosowanie zabiegów specjalnych, sposób likwidacji otworu itp.) | Wzrosty fizykochemiczne i specjalne, rodzaj badania i wyniki, np. najbardziej charakterystyczne wskaźniki fizykochemiczne i bakteriologiczne wody (np. pH, twardość, zawartość Fe, Mn, i składników których ilość przekracza wielkość dopuszczalną dla wody do picia, miarę coli), próbnego pompowania ujętych poziomów wodonośnych, badania mikropaleontologiczne, karolaz itp.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                                                   | 2,90 m, 1,07                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,20                            | 0,20                                       | Piasek drobnoziarnisty z żużlami szarozęty   |              |              | Świerdła do rur $\phi 508$ mm                             | Zawartość w wodzie chloru stwierdzono podczas wiercenia otworu:                                                                                                      | Wzrosty fizykochemiczne badania próbki wody Nr 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 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880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 | 0,20  | Piasek drobnoziarnisty, jasnożółty |  |  |  |  |  |  |  |  |
| 1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2                                                                                   |                                                                                                                                             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| 6,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                                                                   |                                                                                                                                             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| 7,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6                                                                                   |                                                                                                                                             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| 9,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                                                                                   |                                                                                                                                             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| 67,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 46                                                                                  |                                                                                                                                             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| 70,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 48                                                                                  |                                                                                                                                             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| 72,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 49                                                                                  |                                                                                                                                             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| 73,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50                                                                                  |                                                                                                                                             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| 76,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 52                                                                                  |                                                                                                                                             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| 82,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 56                                                                                  |                                                                                                                                             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| 84,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 57                                                                                  |                                                                                                                                             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