



Ggf. beim Ausfall Brunnen 1 zur pH-Stützung für die Rohwässer Brunnen 8 + ggf. Brunnen 7 (Enteisung + evtl. Entmanganung)

PN: energis, 25.10.1989
 T = 12,2 [°C]
 pH = 7,1
 K_{S+3} = 4,97 [mmol/l]
 CO₂ = 41,25 [mg/l]
 D_C = 19,03 [mg/l]
 D_C(60 [°C]) = 26,0 [mg/l]
 Ca²⁺ = 87,59 [mg/l]
 Mg²⁺ = 30,95 [mg/l]
 GH = 19,37 [°dH]
 Na⁺ = 33,58 [mg/l]
 K⁺ = 4,84 [mg/l]
 Cl⁻ = 73,7 [mg/l]
 SO₄²⁻ = 57,0 [mg/l]
 NO₃ = 12,6 [mg/l]
 F₂ ges = 0,015 [mg/l]
 Mn_{ges} = 0,074 [mg/l]
 μ = 11,83 [mmol/l]
 O₂ = 7,0 [mg/l]
 S₁ = 0,71
 S₂ = 16,07
 S₃ = 8,26

Brunnen 1
Q = ca. 80 [m³/h]

Brunnen 8
Q = ca. 40 [m³/h]

Brunnen 7
Q = 0 [m³/h]

Brunnen 9
Q = ca. 40 [m³/h]

T = 13,03 [°C]
 pH = 6,93
 K_{S+3} = 3,40 [mmol/l]
 CO₂ = 42,06 [mg/l]
 D_C = 49,45 [mg/l]
 D_C(60 [°C]) = 16,34 [mg/l]
 Ca²⁺ = 60,83 [mg/l]
 Mg²⁺ = 20,63 [mg/l]
 GH = 13,25 [°dH]
 Na⁺ = 23,62 [mg/l]
 K⁺ = 4,19 [mg/l]
 Cl⁻ = 53,19 [mg/l]
 SO₄²⁻ = 39,53 [mg/l]
 NO₃ = 9,43 [mg/l]
 F₂ ges < 0,02 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 8,26 [mmol/l]
 O₂ = ca. 10,0 [mg/l]
 S₁ = 0,74
 S₂ = 15,27
 S₃ = 8,10

T = 12,8 [°C]
 pH = 6,79
 K_{S+3} = 2,60 [mmol/l]
 CO₂ = 44,76 [mg/l]
 D_C = 66,41 [mg/l]
 D_C(60 [°C]) = 38,25 [mg/l]
 Ca²⁺ = 48,37 [mg/l]
 Mg²⁺ = 15,48 [mg/l]
 GH = 10,32 [°dH]
 Na⁺ = 19,04 [mg/l]
 K⁺ = 4,25 [mg/l]
 Cl⁻ = 43,64 [mg/l]
 SO₄²⁻ = 31,48 [mg/l]
 NO₃ = 12,28 [mg/l]
 F₂ ges < 0,02 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 6,56 [mmol/l]
 O₂ = ca. 10,1 [mg/l]
 S₁ = 0,82
 S₂ = 9,53
 S₃ = 7,75

T = 12,8 [°C]
 pH = 7,76
 K_{S+3} = 2,60 [mmol/l]
 CO₂ = 4,75 [mg/l]
 D_C = 0 [mg/l]
 D_C(60 [°C]) = -11,8 [mg/l]
 Ca²⁺ = 48,37 [mg/l]
 Mg²⁺ = 15,48 [mg/l]
 GH = 10,32 [°dH]
 Na⁺ = 19,04 [mg/l]
 K⁺ = 4,25 [mg/l]
 Cl⁻ = 43,64 [mg/l]
 SO₄²⁻ = 31,48 [mg/l]
 NO₃ = 12,28 [mg/l]
 F₂ ges < 0,02 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 6,56 [mmol/l]
 O₂ = ca. 10,1 [mg/l]
 S₁ = 0,82
 S₂ = 9,53
 S₃ = 7,75

T = 12,2 [°C]
 pH = 7,84
 K_{S+3} = 2,49 [mmol/l]
 CO₂ = 3,87 [mg/l]
 D_C = -0,20 [mg/l]
 D_C(60 [°C]) = -10,54 [mg/l]
 Ca²⁺ = 44,73 [mg/l]
 Mg²⁺ = 15,56 [mg/l]
 GH = 9,83 [°dH]
 Na⁺ = 16,02 [mg/l]
 K⁺ = 4,37 [mg/l]
 Cl⁻ = 31,21 [mg/l]
 SO₄²⁻ = 44,11 [mg/l]
 NO₃ = 14,05 [mg/l]
 F₂ ges = ca. 0,031 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 6,30 [mmol/l]
 O₂ > ca. 8,8 mg/l
 S₁ = 0,84
 S₂ = 7,94
 S₃ = 5,23

PN: energis, 13.06.2016
 T = 11,9 [°C]
 pH = 7,9
 K_{S+3} = 2,68 [mmol/l]
 CO₂ = 3,64 [mg/l]
 D_C = -1,28 [mg/l]
 D_C(60 [°C]) = -11,99 [mg/l]
 Ca²⁺ = 40,41 [mg/l]
 Mg²⁺ = 16,95 [mg/l]
 GH = 9,55 [°dH]
 Na⁺ = 9,01 [mg/l]
 K⁺ = 4,06 [mg/l]
 Cl⁻ = 19,3 [mg/l]
 SO₄²⁻ = 38,0 [mg/l]
 NO₃ = 15,6 [mg/l]
 F₂ ges = 0,056 [mg/l]
 Mn_{ges} = 0,012 [mg/l]
 μ = 5,89 [mmol/l]
 O₂ = 10,74 [mg/l]
 S₁ = 0,61
 S₂ = 5,31
 S₃ = 6,55

PN: energis, 29.04.2020
 T = 11,8 [°C]
 pH = 7,79
 K_{S+3} = 1,63 [mmol/l]
 CO₂ = 2,80 [mg/l]
 D_C = 2,47 [mg/l]
 D_C(60 [°C]) = -3,08 [mg/l]
 Ca²⁺ = 50,80 [mg/l]
 Mg²⁺ = 11,20 [mg/l]
 GH = 9,68 [°dH]
 Na⁺ = 32,0 [mg/l]
 K⁺ = 5,60 [mg/l]
 Cl⁻ = 42,8 [mg/l]
 SO₄²⁻ = 90,6 [mg/l]
 NO₃ = 12,9 [mg/l]
 F₂ ges = 0,014 [mg/l]
 Mn_{ges} < 0,002 [mg/l]
 μ = 7,12 [mmol/l]
 O₂ = n.b.
 S₁ = 2,12
 S₂ = 14,87
 S₃ = 1,65

Grenzwerte TVO
 pH ≥ 6,5 und ≤ 9,5
 D_C ≤ 5 [mg/l]
 Na⁺ ≤ 200 [mg/l]
 Cl⁻ ≤ 250 [mg/l]
 SO₄²⁻ ≤ 240 [mg/l]
 NO₃ ≤ 50 [mg/l]
 F₂ ges ≤ 0,2 [mg/l]
 Mn_{ges} ≤ 0,05 [mg/l]

PN: energis, 15.09.2020
 T = 14,7 [°C]
 pH = 5,76
 K_{S+3} = 0,27 [mmol/l]
 CO₂ = 42,7 [mg/l]
 D_C = 91,29 [mg/l]
 D_C(60 [°C]) = 82,5 [mg/l]
 Ca²⁺ = 7,3 [mg/l]
 Mg²⁺ < 1 [mg/l]
 GH = 1,02 [°dH]
 Na⁺ = 3,7 [mg/l]
 K⁺ = 2,9 [mg/l]
 Cl⁻ = 11,3 [mg/l]
 SO₄²⁻ = 4,6 [mg/l]
 NO₃ = 3,1 [mg/l]
 F₂ ges = 0,502 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 0,87 [mmol/l]
 O₂ = 10,8 [mg/l]
 S₁ = 2,12
 S₂ = 8,29
 S₃ = 4,58

PN: energis, 15.09.2020
 T = 12,1 [°C]
 pH = 5,52
 K_{S+3} < 0,2 [mmol/l]
 CO₂ = 52,81 [mg/l]
 D_C = 110,16 [mg/l]
 D_C(60 [°C]) = 97,41 [mg/l]
 Ca²⁺ = 11,0 [mg/l]
 Mg²⁺ < 1,0 [mg/l]
 GH = 1,54 [°dH]
 Na⁺ = 5,3 [mg/l]
 K⁺ = 4,4 [mg/l]
 Cl⁻ = 15,0 [mg/l]
 SO₄²⁻ = 7,3 [mg/l]
 NO₃ = 20,8 [mg/l]
 F₂ ges < 0,005 [mg/l]
 Mn_{ges} < 0,01 [mg/l]
 μ = 1,32 [mmol/l]
 O₂ = 10,41 [mg/l]
 S₁ = 6,07
 S₂ = 1,71
 S₃ = 1,97

Grenzwert TVO über- oder unterschritten
 pH = **5,52**
 Aufhängung erforderlich
 S₁ = **6,07**

Bedarfsplanung

Index	Name	Datum	Änderung/Ergänzung
Kommunale Dienste Überherrn GmbH Machbarkeits- und Bedarfsdarstellung der Trinkwasserversorgung im Rahmen der externen Erschließung für die Svolt-Ansiedlung			
Schemaplan Überherrn 2 Leitungsnetz Versorgung Svolt			
Maßstab: % Zeichnungs Nr.: 1374-OP-BP-SC-005.0 Blatt Nr.: 7 von 7			
gezeichnet: JKL Datum: 03.03.2022 bearbeitet: JKL Datum: 03.03.2022 geprüft: Blattgröße: 0,841x0,594			

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