CLEAN WATER — BRIGHTER FUTURE
BioSO4-team

Shareholders of BioSO4 with long and successful career in water treatment:

- Prof. Jouko Vepsäläinen
- Ph.D. Juha-Matti Aalto
- Janne Kankkunen
- M.Sc. Lasse Moilanen
BioSO4 Oy – Company info

- Water purification with biomaterials
  - R&D, sales, testing and piloting

- Removal of liquid sulphur compounds
  - Patented method for removal of sulphates, sulphites, sulphides, bisulphites and other negatively charged sulphur compounds
  - For sulphate contents: 10 – 9 000 mg/l
  - Non waste, reactivated and eco-friendly method

- 03/18 BioSO4 completed acquisition of CH Collector heavy metal solution from Chemec Oy

- New adsorbents for removal of Fe, Al, Ca, As,...
  - Commercial products soon available
What we can offer?

- Laboratory and on-site analyses, testing and piloting
- Assessment of specific chemical requirements for water treatment
- Equipment and process design development
- Global logistics and sales
- Reactivation services for products
- Sales network of sludges from BioSO4 - process
- Technical services
BioSO4 - biopolymer

- Three of 20 biopolymer grades from BioSO4
BioSO4 - process

1) Water flow to BioSO4 process
2) pH control, if needed
3) Addition of solid biopolymer to water flow
4) Mixing and reaction time
5) Separation of biopolymer sludge from water and purified water out from system
6) Reactivation of biopolymer with pH change
   - Reuse of biopolymer
   - Sludge out as potential raw material in chemical or agro industry
Pilot results
BioSO4 - project

• Customer was looking for sulphate removal solution
  • Flow 25 – 50 m3/h
  • Sulphate content 1 200 – 4 200 mg/l
  • 4 producers failed with their SO4 – removal methods

• Lab study:
  • Two dosage levels in 5 and 50 degree wastewater
    • 1: 54 % removal of SO4 : 3 706 mg/l -> 1 719 mg/l
    • 2: 32 % removal of SO4: 3 706 mg/l -> 2 529 mg/l

• In April 2018 trial with removal of SO4, recycling of biopolymer and checking possibilities to sell sludge from BioSO4 – process.
Contact info

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