Selenium (Se) is an essential nutrient necessary to maintain human and animal health. The UT-3 K (SS-39) Se concentrations (10 µg/L) XANES spectra show distribution of several Se species: Se(IV) as % of Total Se.

Watershed Sediment Characterization

Surface Water Analysis

Carbon Analysis from Upstream to Downstream

Downstream XANES Data

Se Sequential Extraction Procedure from Upstream to Downstream

Sediment mobilization was assessed bysequential and acid digested samples from the mid and downstream sections of the wetlands. Se was mobilized from the sediments and transported to the downstream sections, especially in the wetland channels. This mobilization was likely due to the increased oxygen levels in the downstream sections, which can oxidize Se species and increase their solubility and transport.

Conclusions

Acknowledgements

References
