

Program	Program NUCLEU PN 06-12.03.05
Project title (ENG):	Study of possibilities to reevaluation of useful substances from the sludge of drinking water treatment plants according with international trends
Project title (RO):	Studiul posibilitatilor de valorificare a substantelor utile din namolurile generate in statiile de potabilizare, in conformitate cu tendintele pe plan mondial
Duration	2006-2008
Team Leader	Mihai STEFANESCU
Summary (short description) ENG	<p>Studies and investigations which were performed in the frame of project theme led to the establishing of chemical sludge composition from some drinking water treatment plants, elaboration of optimal technological flow schemes for advanced recovery of coagulants (Al/Fe) and study of its reuse in coagulation-flocculation processes.</p> <p>Experimental data emphasized that solution of mixt coagulant which were recovered by treating the sludge from drinking water treatment plant (developed flow: acid digestion + removal of organic content by oxidation with H₂O₂) can be used for advanced removal of suspended matter and organic load from wastewater.</p>
Summary (short description) RO	<p>Studiile si cercetarile efectuate in cadrul temei au condus la stabilirea compozitiei namolurilor chimice rezultate din diverse statii de potabilizare, elaborarea fluxurilor tehnologice optime de recuperare avansata a coagulantilor (Al/Fe) precum si studiul posibilitatilor de reutilizare in procese de coagulare/floculare.</p> <p>Datele experimentale evidentiaza faptul ca solutia de coagulant mixt, recuperata prin prelucrarea namolului din statiile de potabilizare (flux elaborat: digestie acida + indepartare incarcare organica prin oxidare cu H₂O₂), poate fi utilizata la indepartarea eficienta a suspensiilor si incarcarii organice din ape uzate.</p>