

Program	Program NUCLEU PN 09-13 03 05
Project title (ENG):	Elaboration of an integrated management of wastewater/chemical sludge with heavy metal content
Project title (RO):	Elaborarea unui sistem integrat de management ape uzate/namoluri chimice cu continut de metale grele
Duration	2009-2011
Team Leader	Mihai STEFANESCU
Summary (short description) ENG	<p>The experimental research of the project aimed to elaborate a treatment flow – stabilization/solidification/inertization of chemical sludge with heavy metal content in order to become inert/harmless waste according with Order 95/2005.</p> <p>The obtained results emphasized that the proposed waste treatment flow (chemical sludge from mine wastewater treatment plant) can transform dangerous waste into inert/harmless waste which can be disposed or used bay potential beneficiary. The main steps of the proposed treatment flow are: grinding – waste homogenization/additive adding (cement, sand, water) / paste homogenization/drying.</p>
Summary (short description) RO	<p>Cercetarile experimentale efectuate in cadrul proiectului au urmarit elaborarea unui flux de tratare - stabilizare/solidificare/inertizare namoluri chimice cu continut de metale grele pentru incadrarea acestora in categoria deseurilor inerte/nepericuloase conform Ordinului 95/2005.</p> <p>Rezultatele obtinute evidentiaza faptul ca fluxul de tratare deseuri (namoluri chimice de statiile de epurare ape de mina) propus permite transformarea acestora din deseuri periculoase in deseuri inerte/nepericuloase care pot fi depozitate sau eventual utilizate de potentiali beneficiari. Principalele etape ale fluxului de tratare propus sunt: macinare - omogenizare deseu/adaugare aditivi (ciment, nisip, apa)/omogenizare pasta/uscare.</p>
Dissemination of results	
Conferences (platform, poster, abstract / full-paper)	Stefanescu M. , Stoica L., Dinu L., Constantin L., Badescu V., Study of the Main Factors with Significant Influence in the Stabilization/Inertization Process of the Sludge with Heavy Metal and Arsenic Content Using Portland Cement, <i>International Workshop "Global and Regional Environmental Protection" – GLOREP, 2010</i> , Timisoara