

# World Bank and Site Contamination: Opportunities for Collaboration

ICCL Bi-annual Meeting  
October 4 and 5, 2011

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World Bank



# World Bank

- International organization providing financial and technical assistance to developing countries throughout the world
- Owned by 187 member countries
- Annual loans of approximately US\$46,900 million in 303 projects, with portfolio of approximately 1,800 projects
- Organization includes six regional operational departments, with central technical support department



# World Bank Context for Contamination

- New World Bank Environmental Strategy underdevelopment identifies contamination as a focus area
- World Bank agenda on Greening Development and Sustainable Urban Development includes site contamination as an issue
- Part of the World Bank's efforts related to the Brown Environment Agenda
- Contamination has direct impact on human health and economic development, and thus on poverty reduction



# Developing Country Context of Site Contamination

- Urban growth is increasing, and also resultant contamination which often affects poor disproportionately
- Many countries have limited regulatory frameworks and/or weak institutional capacity to deal with site contamination
- Country specific issues, such as type and degree of contamination, “readiness” to address contamination
- Lack of financial resources is major limiting factor
- Often unclear definition of responsibility
- Limited in-country equipment and service providers



# World Bank Forms of Support

- Financing
  - Investment Loans
  - Policy Development Loans
  - Technical Cooperation Loans
  - Public Sector Guaranties
- Analytical and Technical Services
  - Provide analytical services to countries
  - Increase institutional capacity
  - Forms
    - Grants
    - Grants with Borrower participation
    - Fee Based Services



# Representative Site Contamination Projects

- Kazakhstan: Ust-Kamenogorsk environmental remediation project
- Albania: Remediation of Porto Romano community due to lindane plant contamination
- Kosovo: Cleanup and land remediation project
- Argentina: Remediation of low level uranium sites
- Kyrgyzstan: Disaster hazard mitigation from abandoned uranium mine tailings
- Colombia: Remediation and redevelopment of Rio Bogotá
- Kazakhstan: Nura mercury river clean-up
- Argentina: Remediation of contaminated surface water and sediments in Matanza-Riachuelo River Basin



# Representative Site Contamination Projects

- Brazil: Sao Paulo Brownfield Redevelopment Study
- Romania: Closure and remediation of 29 mines
- Azerbaijan: Remediation of mercury contaminated areas
- Kazakhstan: Remediation of petroleum contaminated sites
- Russia: Contamination regulatory and institutional strengthening
- Bulgaria: Investigation and remediation of cooper smelter
- Montenegro: Contamination Remediation Project
- Poland: Environmental Protection Fund
- Various Countries: Landfill Projects



# Technical Areas of Interest:

## Prevention and Response

- Regulatory Development (laws, regulations, standards, etc.)
- Institutional Strengthening and Capacity Building
- Soil and ground contamination and investigation and remediation projects
- Financial alternatives for site remediation
- Brownfield Development (urban planning/development)
- Environmental Health and Risk Assessment
- Public Participation
- Management of contaminated surface waters
- Waste water treatment
- Waste management (solid and hazardous waste)
- Industrial pollution prevention and control



# Potential Collaboration

## 1. Technical Transfer Support

- Leverage existing countries capacity to provide support
- Possible Ideas
  - Training, Interchanges, Study tours, etc.
  - Basic, Specific subjects, Decision makers, Public/communities
- What is available and what is needed by developing countries



# Potential Collaboration

## 2. Technical Studies

- Partnerships to develop specific studies related to site contamination issues
- Possible Ideas
  - Financial Alternatives
  - Building Case for Decision Makers (Min. Economy/Planning)
  - National Contamination Remediation Programs
  - Development Indicators (measuring for success)
- What are your present needs/interests



# Potential Collaboration

3. Country Development/Bi-Lateral Assistance
  - Partnerships to leverage country specific bi-lateral development assistance
  - List of site contamination (or related areas) of country interest
4. Trust Fund
  - Financial fund to address site contamination
5. Country Request for World Bank Financial Support
  - Contact us with specific needs

