OSCE-UNDP-UNEP-NATO
Environment and Security (ENVSEC) Initiative

Ferghana Valley assessment and regional workshop (Osh, Kyrgyzstan, 3-7 December, 2004)
Ferghana-Osh-Khudjand area

INTERIM REPORT

1. Background and Assessment Phase
The Ferghana-Osh-Khudjand area in Central Asia (also referred to as the Ferghana Valley) has been identified by the ENVSEC initiative as one of the priority areas warranting a more detailed assessment that leads into an agenda for action (UNEP, UNDP, OSCE 2003: Environment and Security. Transforming Risks into Cooperation. Central Asia and South Eastern Europe; www.envsec.org).

An in-depth (phase II) assessment of the region was initiated in May 2004 with the main objective to assess and communicate information on environment & security hotspots in the Ferghana-Osh-Khudjand triangle with focus on transboundary risks from human activities, in particular industrial hot spots (hazardous waste, risks for accidents and spillages, including radioactive waste poorly stored or completely abandoned), pressure on natural resources (land degradation, deforestation, ownership; water quality, usage and sharing) and cross-cutting issues such as natural disasters or the impacts of climate change on the region.

The assessment has been led by UNEP and carried out by ENVSEC partners (UNDP, OSCE, UNEP, NATO Partnership for Peace Programme) in close cooperation with relevant national governments (Kyrgyzstan, Tajikistan, Uzbekistan) and international experts (e.g. SWISSPEACE, ICARO-REHRA, IAEA, University of Geneva).

2. Field assessment mission, 29 November – 2 December 2004:
The first concrete output of the assessment phase has been a background paper ‘mapping’ the main concrete environmental & security concerns in the region. This report has been followed by a field assessment conducted between 29 November and December 2nd, 2004. At this occasion three interdisciplinary, inter-agency teams have carried out field visits of the identified priority areas and hot spots in the Ferghana-Osh-Khudjand area. Each team, composed of international from the ENVSEC initiative and external organisations as well as
of local experts, has focused its attention on the priority issues identified through the desk study and background paper, e.g. industrial pollution, radioactive wastes and degradation of natural resources.

The field assessment mission has visited a dozen of industrial locations, waste disposal sites and nature resource mismanagement hotspots, including the badly affected areas in the border areas with high potential for environmentally-induced conflicts.

After gathering in Khudjand (Tajikistan), the group of national and international experts has divided into three tracks: (1) Industrial pollution and waste, (2) Nuclear material processing sites and radioactive tailing pounds, and (3) Natural resources. Each expert team consisted of at least 3 national experts from central authorities and one or several international experts.

**Visited sites:**

- **29 November 2004 - Chkalovsk and Gafurov (TAJ),** near Khudjand in Northern Tajikistan: 2 radioactive tailings (Gafurov and Karta 1-9) and 1 tailing in Degmai.
- **29 November 2004 – Isfara chemical industries and Shurab coal mine (TAJ),** 100-120 km east of Khudjand: hydrometallurgical plant (meeting with local environmental authorities) and coal mine in Shurab (site visit and meeting with the management).
- **29 and 30 November 2004 – Spetamen (TAJ),** river Aksu, originating in the Kyrgyz mountains, affects agriculture in Tajikistan due to water release upstream (KYR) and climate warming. **Farma-Kurgon (TAJ),** water table rise due to mismanagement of irrigation systems (UZB). **Voruh enclave (TAJ) in Kyrgyzstan,** cutting juniper forests by enclave’s population in the Kyrgyz mountains; lack of energy is a major reason.
- **29 and 30 November 2004 – Kanibadam (TAJ),** 75 km east of Khudjand: unmanaged dump of outdated and banned pesticides, 2 ha in size with over 3,000 tonnes of buried chemicals; high risk of groundwater contamination and vaporized pesticide emissions.
- **30 November 2004 – Bekabad (UZ),** metallurgic plant on the border between Tajikistan and Uzbekistan; slug deposit and air pollution emissions with transboundary implications.
- **30 November 2004 – Taboshar (TAJ),** 60 km north of Khudjand, close to Uzbekistan; 4 tailings of radioactive waste (<20 mln. tonnes) exposed to wind and water erosion and high accessibility to humans (scavenging, agricultural cultivation) and domestic animals.
- **1 December 2004 – Haidarken (KYR),** large mercury producing plant in Southern Kyrgyzstan: waste tailings and slug deposits close to surface waters carrying pollutants to downstream states, mainly Uzbekistan and Tajikistan.
- **1 December 2004 – Kadamdjai (ex-Frunze) (KYR),** few km from the Uzbek border in Southern Kyrgyzstan: stibium (antimony) processing plant and 7 tailing ponds; poor tailing maintenance and industrial safety levels, airborne pollutants and health risks.
- **1 and 2 December 2004 – Jalal-Abad (KYR),** cutting of walnut forests due to rapid population growth and lack of energy supply, resulting in erosion and biodiversity loss.
- **2 and 5 December 2004 – Mailuu-Suu (KYR),** close to the Uzbek border in Southwest Kyrgyzstan: 23 radioactive tailing sites. Risk of damage from natural disasters and spills.
3. Osh meetings: 3-7 December 2004

Participants of the field assessment could share their findings with experts from central and regional authorities, ministries of environment and emergencies, international and non-governmental organizations in a three-day workshop (3-6 December 2004) held in Osh, Kyrgyzstan with the support of the local Aarhus Information Centre.

During the different work sessions organised during the three days of the meeting, the participants discussed and agreed on a shared knowledge base on environment and security issues of concern in the Ferghana-Osh-Khudjand region, furthermore they synthesized field observations, provided inputs for UNEP’s ENVSEC desk assessment report and discussed environmental remediation projects for the 2005-2006 period.

The participants including the representatives of the three concerned governments have endorsed the main conclusions of the background paper and of the field assessment.

The Osh meeting was also the occasion for the participants to develop jointly a series of more concrete recommendations and proposing actions contributing towards a solution to the problems identified during the assessment phase. In particular:

- For issues related to industrial pollution, the participants in close cooperation with the experts of REHRA / ICARO agreed to focus on the Kanibadam toxic waste storage site (in Tajikistan), on the Kadamzhai stibium plant, and possibly on the Haidarken mercury plant (both in Kyrgyzstan), and on the Ferghana Oil Refinery in Uzbekistan.

- With the support of experts from NATO’s Science for Peace and IAAE the participants agreed that when dealing with issues concerning radioactive waste it is important not only to continue the work on Mailuu-Suu (Kyrgyzstan) but also to focus on other locations such as Taboshar and Adrasman in Tajikistan, and possibly Shekaftar in Kyrgyzstan.

- When looking at natural resources, issues related to water and land should be given specific attention. In this frame the participants had the opportunity to discuss concrete project ideas developed by UNDP through GEF funding. At the same time, the participants agreed that the problems of deforestation and overuse of pasture areas are becoming an issue of growing concern. These problems can become a security issue especially in border areas or enclaves.

- Finally, the participants agreed that natural disasters are events threatening the human security of the whole region. For this reason action should be taken to support initiatives aimed at supporting capacities for disaster reduction and prevention at community level. UNDP has discussed with the seminar’s participants its project ideas aimed at supporting such type of initiatives. In order to increase the impact of the work, the participants
agreed that these initiatives should be linked to those undertaken on industrial locations as well as on radioactive wastes sites.

The Osh seminar was also an occasion for further strengthening the **collaborative network** of institutions and individuals established in the region. In this sense, government authorities of the concerned provinces had not only the opportunity to meet experts and organisations from other countries but also to meet among themselves.

In an event organised by the OSCE Mission at the Aarhus Information Centre in Osh on December 7, 2004 the representatives of the environmental authorities of all the provinces of the Ferghana-Osh-Khudjand area agreed to establish a mechanism of information sharing through regular meetings and web-based exchange of information. The next series of meetings will be held in 2005 in Khudjand (Tajikistan) and in Uzbekistan (to be decided).

**4. Annexes:**

- Agenda of the Osh Meeting
- List of Participants of the Osh Meeting
- Photographs from the field visits and the Osh Meeting
3 December 2004

Introduction and overview, initial discussion of follow-up activities

09.00 – 09.15 Welcoming Remarks
Host authorities, UNEP, UNDP, OSCE

09.15 – 09.30 Overview of the ENVSEC initiative, work in Central Asia and coordination with other regional initiatives
Inkar Kadyrzhanova, UNDP

09.30 – 10.00 Overview of environment-security issues in the Ferghana valley: finding of the Desk Assessment report:
Luigi de Martino, UNEP/University of Geneva

10.00 – 10.30 COFFEE BREAK

10.30 – 12.30 Summaries of site visits
- nuclear sites
- industrial sites
- natural resource sites

12.30 – 14.00 LUNCH BREAK

14:00 – 16:30 Discussion in breakout groups in two parallel tracks

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<thead>
<tr>
<th>INDUSTRIAL POLLUTION, HAZARDOUS WASTE AND NATURAL DISASTERS</th>
<th>WATER, LAND AND BIODIVERSITY</th>
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<tbody>
<tr>
<td>Round-table on on-going activities, gaps and synergies</td>
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<td>Update of industry/waste hotspots (participatory mapping exercise), and inputs to the desk study from field visits and other sources</td>
<td>Update of water, land &amp; biodiversity hotspots (participatory mapping exercise), and inputs to the desk study from field visits and other sources</td>
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16.30 – 17.00 COFFEE BREAK

Discussion and development of follow-up project ideas

19:00 DINNER
4 December 2004

Discussion and development of follow-up project ideas (continued)

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<tr>
<td>09:00 – 12:30 Rapid Environmental and Health Impact Assessment/ industrial activities and waste</td>
<td>09:00 – 12:30 Environmental governance for sustainable development in the Upper Syr-Darya river basin</td>
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12:30 – 14:00 LUNCH BREAK

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<tr>
<td>14:00 – 17:00 Natural disaster preparedness and risk reduction in high-risk areas</td>
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5 December 2004

Discussion of UNDP and other donors projects in the Ferghana Valley area

- Natural disaster preparedness
- Environmental governance in the Upper Syr-Darya river basin
6 December 2004

Presentation of results and the road ahead

09:00-9:15 Opening addresses

9:15-10:30 ENVSEC concept and activities, regional outlook for Central Asia
Inkar Kadyrzhanova, UNDP

10:30-11:00 Main findings of the environment-security desk assessment, and updates from field missions and the technical workshop
Luigi de Martino, UNEP / University of Geneva

11:00-11:30 COFFEE/TEA BREAK

Face-to-face experience, and envisaged follow-up: summary reports from site visits and project development workshops

11:30-12:15 INDUSTRIAL POLLUTION, HAZARDOUS WASTE AND NATURAL DISASTERS
summary report by country’s representative
Discussion

12:15-13:00 WATER, LAND AND BIODIVERSITY
summary report by country’s representative
Discussion

13:00-14:30 LUNCH

14:30-16:00 ENVSEC cross-cutting activities

Early Warning
UNDP, t.b.i.

Institutional support to public participation (Aarhus centres)
Gianluca Rampolla, OSCE

Mass media and access to information
Inkar Kadyrzhanova, UNDP

16:00-16:30 COFFEE/TEA BREAK

16:30-18:00 Work programme 2005-2007

Proposed focus areas for 2005-2007 and their integration
Planned interventions and synergism with other activities in Ferghana
Further funding needs and opportunities

Conclusion and closure of the meeting
7 December 2004

Meeting of regional environmental authorities and national focal points

Aarhus Information Centre

09:00-14:00

Participants:
- heads/representatives of oblast-level environmental committees (from Kyrgyzstan, Tajikistan and Uzbekistan)
- national focal points/ MoE and MFA representatives
- UNEP, UNDP, OSCE representatives

Proposed agenda:
- Oblast-level priorities in the 3 countries (round-table)
- Synergies and coordination with specific ENVSEC activities
- Cross-border coordination and information exchange mechanisms
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<tr>
<th>Name</th>
<th>Title</th>
<th>Ministry</th>
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Priority environmental hotspot in Kyrgyzstan: Kadamjai antimony mining plant tailing pound

Priority environmental hotspot in Kyrgyzstan: Haidarken mercury mining plant tailing pound
Priority environmental hotspot in Tajikistan: Kanibadam toxic chemical waste dumping site

Environmental hotspot in Uzbekistan: transboundary air pollution by Bekabad metallurgic plant
Environmental hotspot in Tajikistan: animals grazing on the surface of radioactive waste site

Environmental hotspot in Tajikistan: radioactivity levels survey at Taboshar radioactive waste site
ENVSEC Osh regional workshop: Presentations of the Day 1, December 3, 2004

Meeting of the directors of the Ferghana Valley area environmental authorities, Osh, December 7, 2004