

Project ISTC - K-1240p

“Post-containment Management and Monitoring of Mercury
Pollution in Site of Former PO “Khimprom” and Assessment
of Environmental Risk Posed by Contamination of
Groundwater and Adjacent Water Bodies of the Northern
Industrial Area of Pavlodar”

Quarterly technical report

on the work performed from 1 October 2009 - to 31 December 2009

Quarter 17

Non-profit JSC “Almaty Institute of Power Engineering and
Telecommunication”, BG Chair of Environmental Technology

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Project manager

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20.06.2010

Signature / Data

1. Summary of Technical Progress

1.1. Current Technical Status

Task Subtask	Start (quarter)	End (quarter)	Status / Comments
1.1.	1	17	Completed/All laboratory equipment purchased has been received. Most of the equipment has been delivered to the Participant Institution JSC "Kaustik", except for the equipment which is used in AIPET on the joint project K-1477p and will be delivered to JSC "Kaustik" in summer, 2010.
1.2.	4	8	Completed.
1.3.	1	15	Completed
2.1.	1	2	Completed
2.2.	3	4	Completed
2.3.	5	6	Completed
2.4.	7	12	Completed
2.5.	10	12	Completed.
2.6.	8	8	Replaced with other works in 14-16 quarters.
2.7.	8	8	Replaced with other works in 14-16 quarters.
2.8.	9	10	Replaced with other works in 14-16 quarters.
2.9.	9	10	Completed
3.1.	1	17	Completed/All laboratory equipment purchased has been received. Most of the equipment has been delivered to the Participant Institution JSC "Kaustik", except for the equipment which is used in AIPET on the joint project K-1477p and will be delivered to JSC "Kaustik" in summer, 2010..
3.2.	4	6	Completed
3.3.	8	8	Replaced with other works in 14-16 quarters.
3.4.	8	8	Completed
3.5.	14	15	Completed
3.6.	15	15	Completed
4.1.	1	2	Completed
4.2.	2	10	Completed
4.3.	3	11	Completed
4.4.	4	8	Completed
4.5.	4	9	Completed
4.6.	14	16	Completed
5.1.	1	17	Completed /The final report on K-1240p project has been prepared. The results of monitoring conducted as well as recommendations on management of the residual mercury pollution in Pavlodar has been delivered to the project partner the Participant Institution JSC "Kaustik" and regional authority.
5.2.	1	16	Completed

1.1. Tasks of the work plan

Task 1: Study of the movement of mercury in the groundwater rise in depressed area in saturated and unsaturated zones and its accumulation in the shallow ponds and vegetation. Development of management strategy to contain the risk to population in the vicinity and livestock.

Subtask 1.1: To facilitate the Laboratory of environmental protection of PCP with the equipment for conduction of mercury monitoring, and to train the local staff.

- **State / Situation at the beginning of the current quarter**

Laboratory equipment and materials for the Participant Institution JSC “Kaustik” is being delivered to Pavlodar for JSC “Kaustik”.

- **Fulfilled work**

All laboratory equipment being delivered to AIPET was unpacked, checked for being complete, tested if necessary, and dispatched to Pavlodar city to the Participant Institution JSC “Kaustik”.

- **Results by the end of the current quarter**

All laboratory equipment delivered to AIPET has been dispatched to Pavlodar city to the Participant Institution JSC “Kaustik”.

- **Personnel Commitments**

Name	Category	Work days
Kaustik		
Merenkova Lyudmila Borisovna	1	14
Solov'eva Nadezhda Vassilievna	1	16
AIPET		
Uskov Grigoriy Aleksandrovich	2	10
Stepanov Vladimir Aleksandrovich	3	30

Task 3. Study of the spread of groundwater plume contaminated with oil products from the territory of Pavlodar Oil Refinery; development of model and assessment of environmental risk posed by oil-products contamination of groundwater in the Northern industrial area of Pavlodar: Subtask 3.1: To facilitate the Laboratory of environmental protection of PCP with the equipment to monitor contamination of groundwater with oil products, and to train the local staff.

- **State / Situation at the beginning of the current quarter**

All laboratory equipment and materials for the Participant Institution JSC “Kaustik” is being delivered to Pavlodar for JSC “Kaustik”.

- **Fulfilled work**

All laboratory equipment being delivered to AIPET was unpacked, checked for being complete, tested if necessary, and dispatched to Pavlodar city to the Participant Institution JSC “Kaustik”.

- **Results by the end of the current quarter**

All laboratory equipment delivered to AIPET has been dispatched to Pavlodar city to the Participant Institution JSC “Kaustik”.

- **Personnel Commitments**

Name	Category	Work days
Kaustik		
Merenkova Lyudmila Borisovna	1	14
Solov'eva Nadezhda Vassilievna	1	16
AIPET		
Uskov Grigoriy Aleksandrovich	2	8,5
Stepanov Vladimir Aleksandrovich	3	25

Task 5: To draw up and discuss with local stakeholders the recommendations for the 2nd stage of demercurization and other remediation activities in the area of the former PO “Khimprom” (Northern industrial area of Pavlodar), including the recommendation for abolishment or further safe use of the wastewater storage pond – lake Balkyldak:

Subtask 5.1: To discuss the work program and obtained results with Pavlodar regional department of environmental protection and with the managers of Pavlodar Chemical Plant.

- **State / Situation at the beginning of the current quarter**

The results, methods and techniques as well as the work skills on K-1240p project were handed over to regional organizations which shall continue field works on mercury monitoring in the Northern industrial area of Pavlodar City.

- **Fulfilled work**

The final report on K-1240p project has been prepared. The results of monitoring conducted and recommendations on management of residual mercury contamination in Pavlodar have been handed over to the project partner Participant Institution JSC “Kaustik” and regional authorities.

- **Results by the end of the current quarter**

The final report and recommendations on K-1240p project have been prepared. Resulting documents on K-1240p project have been delivered to regional authorities.

- **Personnel Commitments**

Name	Category	Work days
Kaustik		
Akhmetov Arthur Darazhatovich	1	31,5
AIPET		
Ilyushchenko Mikhail Alexeevich	1	30
Yakovleva Lyudmila Vassilievna	2	30

Task 0.: Project Management

- **Fulfilled work**

The Report for Quarter XVII has been prepared.

- **Personnel Commitments**

Name	Category	Work days
AIPET		
Ilyushchenko Mikhail Alexeevich	1	24
Yakovleva Lyudmila Vassilievna	2	24

2. Summary of Personnel Commitments

	Number of persons	Total days	Total grants (US\$)
Category I	4	145.5	4192.5
Category II	2	72.5	2445
Category III	1	55	1375
Category IV			
Total:	7	273	8012.5

Change in the project personnel

Name	Previous			Newly appointed			Comments
	Category	Daily rate	Work days	Category	Daily rate	Work days	
no							

3. Preparation of reports and publications

The Report for Quarter XVII has been prepared
The final report on K-1240p project has been prepared

4. Significant Travel and Meetings

4.1. Travel and meetings inside CIS

no

4.2. Travel and meetings outside CIS

no

5. Cooperation with foreign collaborators

- Exchange of scientific materials (information, computer programs and data, samples)

The results of works on K-1240p project as well as the final report on the project were discussed with Paul Randall, K-1240p, project coordinator.

6. Procurement

Number in accordance with Work Plan	Name	Status
no		

7. Questions, suggestions

(Including plans for the next quarter(s), if initial Work Plan has been changed significantly).

no