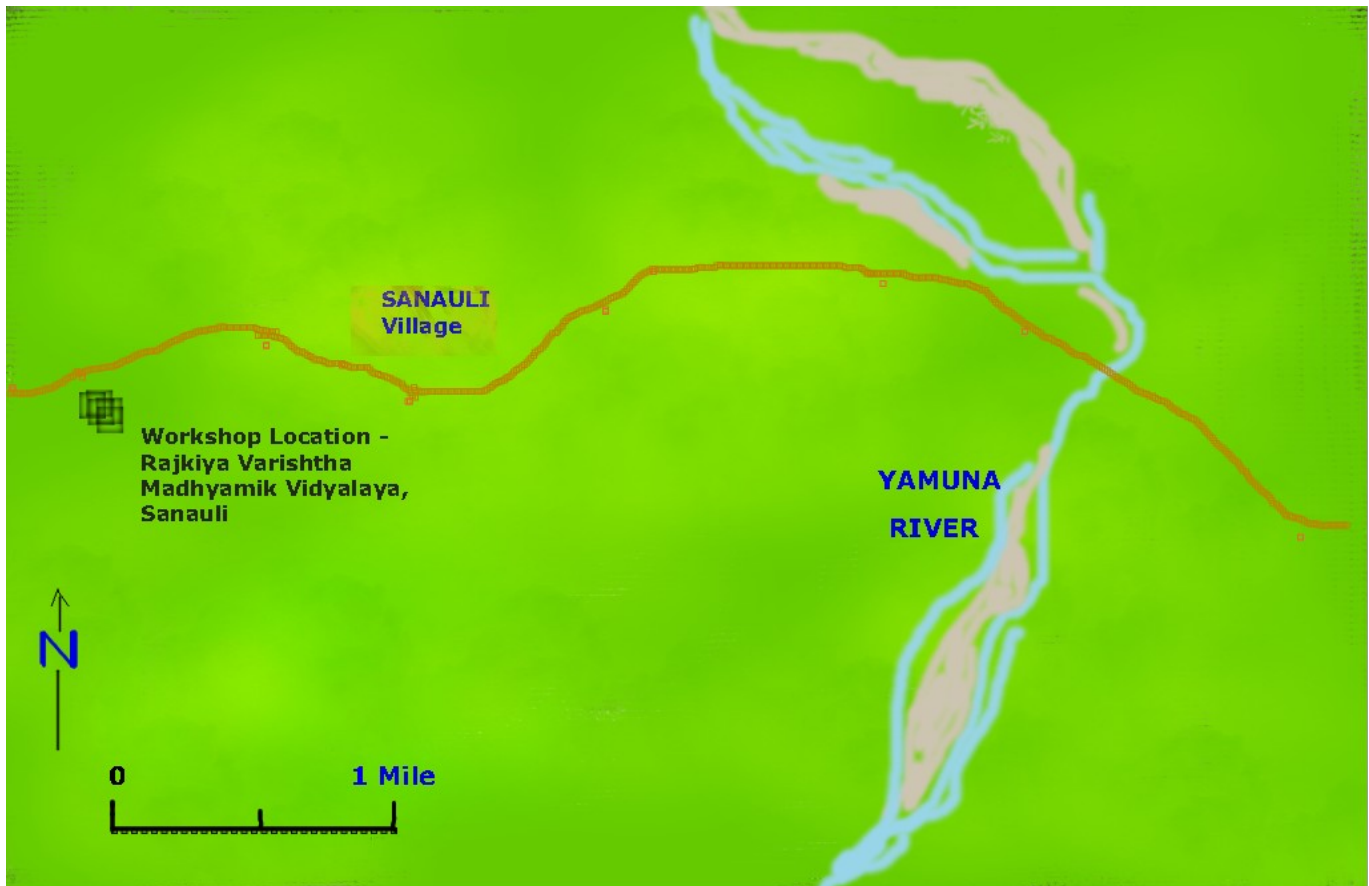


Yamuna Field Workshop at Sanauli, Haryana January 17, 2010

By Subijoy Dutta and Minakshi Arora

It was a foggy Sunday morning, when Delhi was misty and gloomy all around and the visibility was poor in some areas. It delayed our travel to Sanauli, a distance of about 135 Km from South Delhi. Although the weather was too foggy but our Yamuna participants from all around the area centering Panipath were enthusiastic and arrived at 9:30 AM in Rajkiya Varishtha Madhyamik Vidyalaya, Sanauli, Panipath. There were 136 youth and 12 teachers, and 3 guest participants/trainers from EXNORA. There were 6 additional people from the sponsors and organizers - Water Community and Rivers of the World (ROW) Foundation Team members.

The workshop location was within 3 miles from the Yamuna River as shown in the Map below (developed with the GPS data collected during the site visit).



A Map of the Workshop Location at Sanauli

The participants and guests were first welcomed by **Minakshi Arora** and a brief background of the workshop was presented to the participants. Then Mr. **Yashveer Arya** addressed the problems of Yamuna River in an explicit manner in local language.

Amongst eminent guests and environmentalists from the area, **Mr. Subhash Nagpal, Harjinderji and Sudhish** participated in the workshop representing EXNORA. Mr. Nagpal from Exnora explained to the participants about the serious need to clean their surroundings and to be mindful of throwing any trash/waste only to designated areas, such as trash bins. He went further to provide clear examples of how solid waste is linked to contamination of our rivers.

Siraj Kesar mentioned about the water cycle and how our streams and rivers are facing great challenges these days in keeping their flow and quality protected and what action can be taken up to address these issues.



Participants at the Yamuna Workshop in Sanauli.

The ROW Foundation team members (Subijoy Dutta, Girish Chaudhry, Ginny Harris, Dick Lahn, and Sumit Dutta) were all very enthusiastic about this Field workshop, but due to travel issues and international travel conflict for Girish Chaudhry and Sumit Dutta respectively, both of them couldn't participate in the workshop.



The ROW Foundation team members (Mr. Dick Lahn, Ms. Ginny Harris, and Mr. Subijoy Dutta) came prepared with a bag full of field kits and other materials for the workshop. They were welcomed by an inspiring ‘Yamuna Song’ sung by a group of participating girls/students.



Ginny Harris explained the importance of Trash cleanups. Minakshi Arora interpreted Ginny’s talk in Hindi to the participants. Ginny explained to them how the Alice Ferguson Foundation stumbled upon solving the problem of trash.

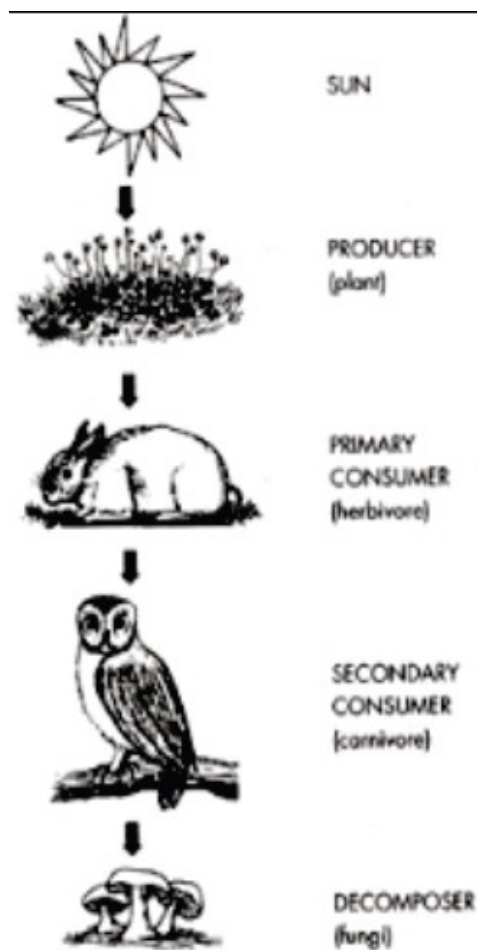
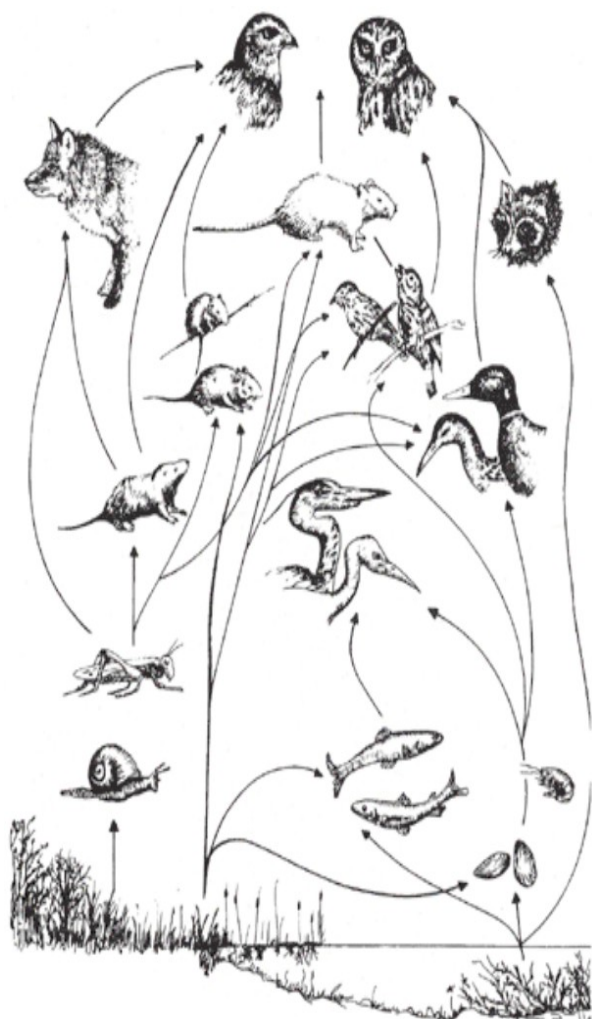
She explained how the Trash Free Potomac Watershed Initiative worked in Washington, DC area and how they might work for the local people there. She made it clear to the students and other participants that littering is an unacceptable practice and they must all join hands in preaching that to the local people.

Subijoy Dutta interacted with the students next by asking a few questions to the students about water – what is used by them daily. Most of them knew the source of their drinking water, which was mostly well water. The students were found to be quite interested and inquisitive about treating the water and wanted to know about simple types of treatments. Some details of aeration systems and diffusers were explained by Subijoy in reply to a question from one of the students, Rohit Sagar, who asked “..how diffusers work”. The participants were quite sincere in their motive to help protect and clean the Yamuna River. As a first step to clean the wastewater discharges from their village, Subijoy suggested that the volunteers should lead the way to construct a small lagoon where the water from the few drains in the village can discharge into and get retained for some time prior to flowing into the Yamuna River. The volunteers cheered up on that and said that they will start exploring that idea. Subijoy told them that once they build the small lagoon they should let him know and he will come back to check the system and look into installation of solar aeration systems with diffusers for improving the water quality of the drains before they discharge into the Yamuna River.

Dick Lahn then demonstrated the fundamental law of ecology with participation from the students -- a demonstration showing the inter-connection between everything living.

One student received a card with a picture of an animal. The next student was given a card with a picture of a plant or an animal, the existence of which depends on the presence of the animal in the first card. The connection between the two living things, now represented by the two students is a string. One student holds one end the other holds the other end. After 12 students held cards, the single string between the related plants and animals created a web between the students which connected them all together. The last student received a card which represented an animal whose existence depended on the animal card held by the first student receiving a card. This connection completes the web. The students were asked to close their eyes and pull back gently on the strings. As the strings of the web tightened they felt the connection they all had to one another. Then one of the students let go of their string -- indicating that a plant or animal disappeared or became extinct. Then the web fell apart. Students were initially curious and somewhat confused about this game of strings and cards, but they quickly realized their roles

and how each one of them was interdependent as the web of life. This hands-on experience seemed to have taught them a valuable lesson about importance of protecting the ecosystem. The following figures provide simplified depictions of the web of life.



After the Web of life exercise, it was time for honoring the few leaders from the Yamuna Youthcamp at Samalkha which took place in August 2009. They have been honored as “Yamuna Sevaks” (means one who provides Service to Yamuna) at this workshop and were provided with T-Shirts and certificates from the ROW Foundation.



Certificates Presented to “Yamuna Sevaks” (from Aug '09 camp at Samalkha) at this Workshop



Schoolteachers and guests were next recognized with certificates.

Mr. Satish Guglani, a well-known social worker from Panipath also participated in the workshop and provided valuable examples to the students in his talk. He inspired the young students and asked them to step forward with a goal to protect the Yamuna river by undertaking various steps discussed at this workshop.



Mr. Nagpal, Harinderji, Mr. Satish Guglani, and Subijoy Dutta at the Workshop



School teachers, and students actively participated at the workshop
The list of students including the “[Yamuna Sevaks](#)” and Teachers at the workshop is provided below.

Science Seminar में भाग लेने वाले Student & Parents List

Govt. High School - Jalalpur Panipat

S.No.	Name of Students	Father's Name	Classes	Contact No.	
1	Joginder Bhatia	Sh. Hukam Chand			
2	Joginder Rawal	Sh. Galtan Rawal			
3	Rizwan Khan	Sh. Erfan Khan			
4	Kooldeep Rawal	Sh. Rameshwer Rawal			
5	Hari Om Sharma	Sh. Satya Narayan			
6	Rohit Bhardwaj	Sh. Karambir Bhardwaj			
7	Shiv Kuma Sharma	Sh. Om Prakash Sharma			
8	Sarwan Kumar Sharma	Sh. Satpal Sharma			
9	Sachin Sharma	Sh. Ramesh Sharma			
10	Subhash Sharma	Sh. Banarsi Dass			
Science Teacher's Name					
1	Sh. Karambir Bhardwaj	Active participation of the Teachers made the workshop more live and educational			
2	Sh. Rajesh Sharma				
3	Sh. Ved Pal Rawal				

SEMINAR IN**Govt. Sr. Sec. School Khurd, Panipat**

S.No.	Students Name	Father's Name	Roll No.	Class	Mob. No.
1	Pardeep Chauhan	S/o Ompal Singh	09	XII(A)	
2	Deepak Panchal	S/o Subhash	02	XII(A)	
3	Anil Sharma	S/o Raghubir	48	XII(A)	
4	Sushil Kumar	S/o Rohtas Kanwar	29	XII(A)	
5	Sonu Sharma	S/o Chram Singh	17	XII(A)	
6	Sushil Saini	S/o Subhash Saini	22	XII(A)	
7	Deepak Rathi	S/o Satbir	23	XII(A)	
8	Bijender Kumar	S/o Karambir	24	XII(A)	
9	Deepak Rawal	S/o Janeshwar	49	XII(A)	
10	Mahender	S/o Giri Raj	25	XII(A)	
Group Leader & Teacher					
1.	Satpal (Lect. In Hindi)	9050239975			

Tenth B Chhazpur				
S.No.	Name of Students	Father's Name	Class	Contact No.
1	Kuldip Rawal	Sh. Satpal Singh	10 (B)	
2	Sonu Rawal	Sh. Mahipal	10 (B)	
3	Sumit Rawal	Sh. Gulab	10 (B)	
4	Amit Rawal	Sh. Balindar	10 (B)	
5	Monu Rawal	Sh. Ramesh	10 (B)	
6	Rajbir	Sh. Banwari	10 (B)	
7	Hari	Sh. Prakash	10 (B)	
8	Rajesh	Sh. Pala	10 (B)	
9	Anish	Sh. Irshak	10 (B)	
10	Manjeet	Sh. Dharam Singh	10 (B)	
11	Jitendra	Sh. Ramkuwar	10 (B)	
12	Sonu	Sh. Sundar	10 (B)	

Govt. S.S. School (Sanauli Khurd, Panipat)

S.No.	Name of Students	Father's Name	Class	Contact No.
1	Amit Dhiman	S/o Sh. Ramkaran	XII	
2	Amit Kumar	S/o Sh. Sanjay Sharma	XII	
3	Ajay Kumar	S/o Sh. Dharam Singh	XII	
4	Rishipal	S/o Sh. Mahendra Singh	XII	
5	Kapil	S/o Sh. Roshan Lal	XII	
6	Parmod	Sh. Mahabir Singh	XII	
7	Jitender Sharma	Sh. Hari Ram	XII	"Yamuna Sevak"
8	Mohan Lal	Sh. Jile Singh	XII	
9	Irsad	Sh. Liyakat Ali	XII	
10	Amarjeet	Sh. Mahender	XII	
11	Ashu	Sh. Nawab Ali	XI	"Yamuna Sevak"
12	Rahul	Sh. Mahender Singh	XI	
13	Anand	Sh. Kashmir Singh	XI	
14	Rakesh Singh	Sh. Inder Singh	XI	"Yamuna Sevak"
15	Farid Ali	Sh. Ali Hasan	XI	"Yamuna Sevak"
16	Nawab Khan	Sh. Shokin	XI	
17	Salim	Sh. Bhoora	XI	
18	Uday	Sh. Jaswant Singh	XI	
19	Harun	Sh. Noor Hasan	XI	
20	Nazim	Sh. Salim	XI	
21	Ankush Tyagi	Sh. Dharmbir	XI	"Yamuna Sevak"
22	Rampal	Sh. Rajpal	XI	
23	Madan	Sh. Tara Chand	XI	
24	Sarfraj	Sh. Tahir	XI	
25	Mubarik	Sh. Liyakat	XI	
26	Pawan Kumar	Sh. Pirthi Singh	XI	"Yamuna Sevak"
27	Adil	Sh. Meharban	XI	
28	Sanjay	Sh. Dalip	XI	
29	Deepak Kumar	Sh. Jagi Ram	XI	"Yamuna Sevak"
30	Sunil	Sh. Ramkishan	XI	

31	Devi Singh	Sh. Sh. Rohtash	XI	
32	Shoba Chand	Sh. Rambhaj	XI	
33	Amit Sharma	Sh. Rajkumar	X	“Yamuna Sevak”
34	Sunil	Sh. Lahuri Singh	X	
35	Naveen Kumar	Sh. Krishan Lal	X	
36	Deepak Kumar	Sh. Rajkumar	X	
37	Anuj Kumar	Sh. Sujan Chand	X	
38	Kuldeep	Sh. Jasbir	X	
39	Pardeep	Sh. Ashok Kumar	X	
40	Krishan Pal	Sh. Surender	X	
41	Dimple Rohila	Sh. Balbir Rohila	X	
42	Pankaj	Sh. Nar Singh	X	
43	Deepak	Sh. Mahabir	X	
44	Vishal Tyagi	Sh. Radheshyam	IX	
45	Sandeep	Sh. Krishan	IX	
46	Rahul Tyagi	Sh. Hawa Singh	IX	“Yamuna Sevak”
47	Joni Tyagi	Sh. Nand Ram Tyagi	IX	
48	Vikram	Sh. Sahi Ram	IX	
49	Ashish	Sh. Karan Singh	IX	
50	Sanjeev	Sh. Naresh	IX	

51	Farookh	Sh. Nafish	IX	
52	Manoj	Sh. Narsi	IX	
53	Sanjay Dahiya	Sh. Rajpal	IX	
54	Kuldeep	Sh. Ghanshyam Dass	IX	
55	Tasleem Khan	Sh. Ikbal Khan	IX	
56	Om Prakash	Sh. Balwan	IX	
57	Deepak Arora	Sh. Satpal Arora	IX	
58	Rakesh	Sh. Balbir	IX	
59	Mohan Singh	Sh. Ramesh	IX	
				"Yamuna Sevak"
60	Sachin	Sh. Duli Chand	IX	
61	Gulshan	Sh. Banarasi	IX	

62	Sonu	Sh. Suresh	IX	
63	Farooq	Mohd. Alim	XII	
64	Manoj Kumar Rohilla	Sh. Rampal	XII	
Teacher's Name				
1	Sh. K.L. Tyagi	Lect. in Hindi		
2	Sh. Sanjeev Kumar	SC Master		
3	Sh. Surender Kumar	Lect. In English (Guest)		
4	Sh. Atma Ram	Math Master (Guest)		
5	Sh. Sandeep Kumar	Computer Teacher		
6	Sh. Yogender Kumar	P.T.I.		

**Amar Jyoti Sr. Sec. School
Sanauli Khurd (Panipat)**

Name of Students	Father's Name	Class	Contact No.	
Neeraj Kumari	Sh. Krishan Phour			
Sarita Dhiman	Sh. Ramkaran Dhiman			
Sheetal Tyagi	Sh. Mahender Tyagi			
Soniya Tyagi	Sh. Omkar Tyagi			
Jyoti Bajaj	Sh. Laxman Bajaj			
Jyoti Dhiman	Sh. Sumerchand			
Seema	Sh. Nawab Rawal			
Nancy	Sh. Sanjay Varhist			
Prachi	Sh. Virendra Tyagi			
Balwan	Sh. Om Parkash Sharma			
Shalu	Sh. Sanjeev Kumar			
Govind	Sh. Suresh Sharma			
Abhishek	Sh. Sethpal Rawal			
Deepak	Sh. Maman Singh			
Mustasa	Mh. Guyyur			
Munesh	Sh. Inder Phour			
Teacher's Name & Contact No.				
Sh. Satyawan Sharma				
Sh. Harvinder Kumar				

Govt. Sr. Sec. School Khurd, Panipat

S.No.	Students Name	Father's Name	Roll No.	Class	Mob. No.
1	Pardeep Chauhan	S/o Ompal Singh	09	XII(A)	
2	Deepak Panchal	S/o Subhash	02	XII(A)	
3	Anil Sharma	S/o Raghubir	48	XII(A)	
4	Sushil Kumar	S/o Rohtas Kanwar	29	XII(A)	
5	Sonu Sharma	S/o Chram Singh	17	XII(A)	
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Group Leader & Teacher

1.	Satpal (Lect. In Hindi)				