

Successful Stories:

(1) Mohammad Mousa Mohammad Hasasnah - Ash Shuyukh Village - Hebron Governorate:

Mr. Mohammad used to consume considerable quantities of domestic drinking water for irrigation of his fruit trees; at the same time, he used to face a big problem with the wastewater generated from his house (domestic activities). The level of wastewater was always high at his cesspit, polluting the soil surface and surroundings of his house and putting him and his neighbors' kids at risk of exposure to direct contact to wastewater. The periodic removal of this wastewater by means of vacuum tankers is very costly, since the removal of 7 cubic meters of wastewater (A typical vacuum tanker capacity load) costs between 80 to 100 NIS, which means, if he consumes 30 cubic meters of potable water per month, he will need to hire the services of a vacuum tanker weekly, and so, the expenses will be between 320 to 400 NIS if not more. Therefore, Mr. Mohammad's decision to have a waste water treatment plant installed in his land helped in lowering the expenses and finding a new source of water (the treated waste water) that can help him irrigate his fruit trees and preserve a healthy environment for him and his neighbors' kids.



Photo 1: Polluted land at Mohammad Mousa Mohammad Hasasnah's House - Ash Shuyukh Village - Hebron Governorate



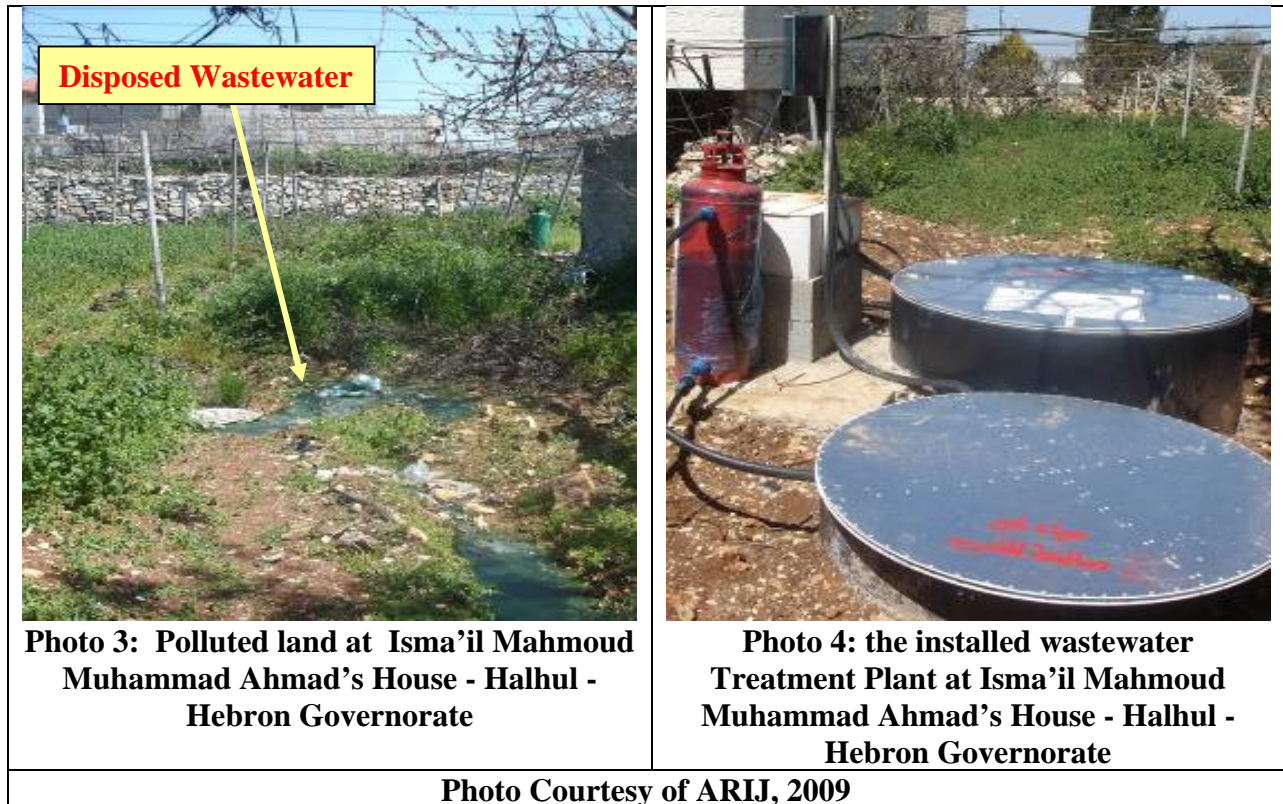
Photo 2: the installed wastewater Treatment Plant at Mousa Mohammad Hasasnah's House - Ash Shuyukh Village - Hebron Governorate

Photos Courtesy of ARIJ, 2009

(2) Isma'il Mahmoud Muhammad Ahmad - Halhul Village - Hebron Governorate:

Mr. Isma'il's house is not connected to a sewage network collection system and he used to depend on a cesspit to dispose the waster water generated from his house. At the same time, his cesspit clogs and has almost no infiltration to the ground, causing this wastewater to pollute the soil surface of his backyard ,and where he uses to cultivate to generate income that helps him in supporting his family. The atmosphere where he uses to cultivate was a real environmental catastrophe due to the green polluted material on the soil surface due to wastewater on the soil

surface. The installed system actually came to solve the problem and to preserve a healthier environment to this family; At the same time, provided a better management of the water resources by reusing the treated wastewater for irrigation purposes. See Photos 3-4



(3) Akram Mohamad Abu Rayyan, Halhul- Hebron Governorate:-

Mr. Akram didn't get the possibility to connect to a sewage collection network service neither could he make benefit of using vacuum tanker to dispose the generated wastewater because it is an expensive service for him and his family budget; rather, he decided to dispose the wastewater generated by his house in a cesspit that he made in his house backyard; later on, the cesspit faced clogging problems and as a consequence, the wastewater was most of the time on the surface .This became a source of pollution, bad odors and insects, especially in summer time. The installed System gave him the ideal solution to his problem and contributed to his family sustainability, since the installed system is actually irrigating his grapes trees, thus increasing his productivity of grapes and economizing in his domestic water consumption bill.



(4) Yaser Ahmad Udah Hamamreh , Husan Village – Bethlehem Governorate :

Mr. Yaser didn't get the possibility to connect to a sewage collection network service neither could he make benefit of using vacuum tanker to dispose the generated wastewater because it is an expensive service for him and his family budget; rather, he only used a four inch drainage pipe to convey the domestic wastewater few meters from his house, where the wastewater is discharged to the ground surface, polluting the soil surface of his backyard and exposing his family to this polluted environment. This became a source of pollution, bad odors and insects, especially in summer time. The actually installed System gave him the ideal solution to his environmental problem and will contribute in his family sustainability, since the installed system is actually irrigating his fruit trees, thus economizing his domestic water consumption bill by reusing the treated wastewater. **See Photos 7 & 8**





Bethlehem Governorate	house , Husan Village – Bethlehem Governorate
Husan Village – Bethlehem Governorate Photos Courtesy of ARIJ, 2010	

(5) Nasri Hussein Ahmad Sukkar, Wadi Fukin Village – Bethlehem Governorate:

Mr. Nasri’s house is not connected to a sewage network collection system .He uses a drainage pipe to convey the domestic wastewater few meters from his house, where the wastewater is discharged to the ground, where he has dug a space to gather the wastewater and where he covered with a number of trees cut branches to cover the polluted cavity .His backyard not only exposed his family to this polluted environment ,but also exposed his kids of falling in the covered cavity that he had done to dispose the wastewater . Now the installed wastewater treatment system at his house will improve his house environment, and generate a source of water that will make him able to plant fruits trees that will contribute in his family support.



Photos 9 & 10

Disposed Wastewater	Installed Wastewater Treatment System
	
Photo 9: Polluted land at Nasri Hussein Ahmad Sukkar’s house, Wadi Fukin Village – Bethlehem Governorate,	Photo10: the installed wastewater Treatment Plant at Nasri Hussein Ahmad Sukkar’s house, Wadi Fukin Village – Bethlehem Governorate
Husan Village – Bethlehem Governorate Photos Courtesy of ARIJ, 2010	

(6) Fayek Saleh Esliman Hurub Wady Fukin Village – Bethlehem Governorate:

Mr. Fayek’s house is not connected to a sewage collecting system .As well the generated wastewater, used to pollute his surrounding environment putting at risk not only his kids but also all kids that attend the school that is neighboring his house. The installed wastewater system at

this house not only will protect the environment and kids from contamination but also, will generate a new water resource that will help him increase the surface of planted fruit trees at his home garden. **See Photos 11 & 12**

	
<p>Photo 11: Polluted land at Fayek Saleh Esliman Hurub's house - Wadi Fukin Village – Bethlehem Governorate</p>	<p>Photo 12: the installed wastewater Treatment Plant at Fayek Saleh Esliman Hurub's house - Wadi Fukin Village – Bethlehem Governorate</p>
<p>Photos Courtesy of ARIJ, 2010</p>	

(7) Jamal Mohamad Mahmoud El Rabaiaa ‘Ubeidiya Village – Bethlehem Governorate:

Mr. Jamal's house is not connected to a sewage collecting system .As well the generated wastewater, used to pollute his surrounding environment. At the same time it is important to mention that Al‘Ubeidiya Village is almost a desert locality and that suffers from water scarcity. The installed wastewater system at this house not only will protect the environment from direct pollution but also, will generate a new water resource that can make a change, increasing the fruit trees surface at this locality where planted fruit trees are scarce due the local nature. **See Photos 13 – 16**



Photos 13 to 16: Before and After Pictures of Jamal Mohamad Mahmoud El Rabaiaa water reuse system- Al ‘Ubeidiya village- Bethlehem Governorate, demonstrating the growth of the fruit trees and which are irrigated with treated wastewater in an arid area, Photos Courtesy of ARIJ, 2010

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