

PALESTINIAN HYDROLOGY GROUP

Water & Environmental Resources Development



مجموعة الهيدرولوجيين الفلسطينيين
لتطوير مصادر المياه والبيئة

Project funded by:



EUROPEAN COMMISSION
EUROPEAN COMMUNITY HUMANITARIAN OFFICE (ECHO)



OXFAM-GB

**In Coordination With:
Palestinian Water Authority (PWA)**

**Water and Sanitation, Hygiene (WaSH)
Monitoring Project:
Impact of the Current Crisis in the West Bank and Gaza Strip
Survey Report # 17
15 - 31 October / 2004**

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Introduction

The **first section** of this report presents a summary of urgent needs in some of the Palestinian communities in the West Bank and Gaza Strip.

The **second section** includes summary of results of the information and update for communities surveyed during the previous two weeks. The section includes five major tables with brief comments on the data presented in these tables.

Section one: Urgent needs in Palestinian communities

Infrastructures destructions at Gaza city treatment plant

Monday 25 October 2004, the Israeli occupying army launched an operation of destruction on the Gaza city treatment plant site, about 1 km north of Netzarim settlement.

This treatment plant was intended (in 1996) to receive about 18,000 m³/d. The daily flow it is now receiving is about 40,000 to 50,000 m³/d, with peaks of 70,000 m³/d during summer. The actual flows are well over the design flow, which degrades wastewater treatment performance. The plant is receiving wastewater from almost all Gaza City, 600,000 to 650,000 inhabitants. Part of the treated wastewater is infiltrated through infiltration basins, the rest being sent to the sea.

When the employees tried to reach the station on Tuesday 26 October, they found the access road destroyed; the municipality has been working as a first step to fix this road.

Only on Wednesday 27, the technicians reached the station. They discovered the following situation:

- 1- Destruction of the mainline, which brings the raw wastewater from Gaza city to the treatment plant. This 36" line (92 cm) diameter, which was 1 meter buried, receives a daily flow of 25 000 m³/d from about 300 000 inhabitants. The raw sewage created a temporarily river, flooding the agricultural areas around (200 dunums), contaminating soils, crops, wells, and last but not least resulting in a major sanitary threat for the neighborhood.
- 2- Destruction of a 32" diameter line (about 82 cm) that brings the water from the sand removal pound to the anaerobic pound. The breaking of the pipe emptied the anaerobic pond, leading to a sudden 1m flood of raw wastewater in a cultivated area. This pipe was about 1.5 to 2 meter buried.
- 3- Destruction of the line that brings treated sewage toward the seashore. This 18" pipe (46 cm) is the only pipe that allows sea outfall.

4- Laboratory analysis ransacking. Many laboratory tools and scientific devices essential for the sewage treatment management have been wrecked. All the offices have been forced and ransacked.

5- Demolition of parking and a tractor used on the treatment plant site.

Upon treatment station managers' statement (Husain Abu Zaid, Deputy Director and Jaoudat Eldalou, laboratory director), the first priority is to fix the pipe that connects the sand removal pound and the anaerobic pound. Indeed, the sand removal basins are almost full, and if the pipe is not fixed on time, all the inlet flow, about 50,000 m³/d, will flood the neighborhood.

The next emergency step is to run the hydraulic system, in order to store the wastewater, and send it to the sea. Setting up the pipes is complex, as the city-station pipe's material is very specific, and getting the necessary pieces may result difficult.

Finally, protecting the laboratory undestroyed devices, and replacing the destroyed ones should be done as soon as possible in order to insure the treatment process once the hydraulic circuit is running.

Section two: Summary of information and update for the surveyed communities during the past two weeks (October 15th through October 31st).

The WaSH MP has been updating the data collected during the past two years. The new survey focuses upon rapidly or significantly changed or changing data and collects and analyzes Mekorot Company supply during year 2003 and 2004

37 communities of the WB and GS have been surveyed during the past two weeks. A new questionnaire has been prepared to illustrate significant changes and elements of interest to key stakeholders.

Collected data is presented in the following tables at the end of this section.

General comments:

Table 1: Water Supply by Tankers for Communities Surveyed during the past two weeks (October / 2004).

Comparisons of prices of tankers water before and after the current Intifada are presented. Most of the communities suffered from the noticeable increase in the price of water, reflecting the effect of closures and curfews on water transport. Effect of checkpoints, fixed and mobile, earth mounds and curfew is estimated in this table, 2 indicates a “severe” effect on water transport and the location is completely blocked, 1 indicates an “intermediate” effect i.e. delays between 1 and 6 hours, and 0 indicates no effect on the water transport.

A comparison of supplied quantities now and before the Intifada is presented.

- The price of tanker water is highest in Mazari’ an Nubani and ‘Arura communities / Ramallah Governorate, Wadi Umm Qal’a and Kherbit an Nahla / Bethlehem Governorate, and Qalqas / Hebron Governorate. Price is 20 NIS per cubic meter of water. In the Gaza Strip, tanker water is usually used on emergency situations and it costs about 35 NIS per cubic meter.
- The effects of fixed and mobile checkpoints, earth mounds and curfews on water transport are presented in the table, with the numbers indicating the extent of closures as above. Its effect is very clear in the Gaza Strip where it was divided into three major parts and is affecting all aspect of people’s life; the same applies at Nablus Governorate.
- Supplies of tanker water before and after Intifada are also presented in the same table. Communities that do not have defined quantities in the table do not rely on tankers as a source of water supply for the community. In general, the table shows that quantities of water supplied by tankers to communities in Hebron and Bethlehem Governorates increased during the current Intifada. Communities in the Gaza Strip are forced during the past period to rely on tankers water as an alternative source of water after the water network destructions during the past incursions of the Gaza Strip.
- One water tanker was partially damaged during the past period in Biddu community / Ramallah Governorate.

Table 2: Water supply by Mekorot Company for communities surveyed during the past two weeks (October / 2004).

In Table 2, total water quantities supplied to the communities are collected, and more specifically, quantities supplied by Mekorot Company now and before the Intifada are collected from local councils of these communities. In this table, “water supplies from all sources” include all water supplied from all sources in that community including supply from Mekorot Company. 16 out of the 37 surveyed communities get all or a considerable part of their supplied quantities from Mekorot Company as a main source of domestic water.

Supplies are reduced in 15 of the communities that get water from Mekorot Company, and 1 community is not affected by reduction.

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the Wet Bank and Gaza Strip.

In this table, summary of effects of fixed and/or mobile checkpoints, earth mounds, and curfews on access to services including access of water tankers, access of maintenance teams, and access to Public Health Centers (PHC). In Nablus , Tubas Khan Yunis and Rafah Governorates fixed points are major obstacle to reaching (PHC) in addition to the effect of mobile checkpoints, earth mounds and curfews on those communities.

Table 4: Damages in water infrastructure during the past two weeks.

This table summarizes damages in water infrastructure in the surveyed communities during the past two weeks. Major damages in the water networks by Israeli Forces during incursions in the past period affected supply of water to some communities especially (North Gaza, Khan Yunis and Rafah Governorates). Roof tanks and cisterns remain a major target for Israeli soldiers in many Palestinian Governorates especially in the Gaza Strip. Details are available in the table below.

Table 5: Water supply for the surveyed communities and its major problems.

Table 5 summarizes major problems in the surveyed communities.

In the Ramallah Governorate, several cases of Jaundice and Ameba were registered in the surveyed communities during this year. It is thought that the cause is related to water quality.

One of the major needs that is worth mentioning is the problem of in Wadi al Far'a and Tayasir in Tubas Governorate: Wadi al Far'a has many water resources which include springs, ground water wells but the community do not have water network because it could not get a water network license. On the other hand, Tayasir has a new water network but is not connected to a water source. Licenses are usually provided through the Palestinian Water Authority (PWA) but have to have the approval of the Joint Water Committee, therefore the approval of the Israelis.

Table 1: Water Supply by Tankers for Communities Surveyed during the past two weeks (October/ 2004).

No.	Comm. ID	Comm. Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m ³ /month)		Damaged tankers (No.)	
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	Comp.	Partial
1	50550	Tayasir	Tubas	19/10/2004	12.0	12.0						2400	2400		
2	50740	Wadi al Far'a	Tubas	17/10/2004	10.0	10.0						2000	2000		
3	50755	Tammun	Tubas	21/10/2004	12.0	10.0			1			22000	22000		
4	150990	Tell	Nablus	24/10/2004	10.0	10.0	2	Sarra	2	2	1	5000	5000		
5	151095	'Asira al Qibliya	Nablus	21/10/2004	15.0	12.0			2	2	2				
6	151385	Majdal Bani Fadil	Nablus	20/10/2004	13.0	10.0	2	Howwara	2	2	1				
7	200995	Khirbet Sir	Qalqiliya	18/10/2004	15.0	15.0			1		1	100	100		
8	201100	'Azzun	Qalqiliya	19/10/2004	17.0	17.0						1000	1000		
9	301460	Mazari' an Nubani	Ramallah	18/10/2004	20.0	17.0			1			450	400		
10	301475	'Arura	Ramallah	18/10/2004	20.0	17.0			1			600	600		
11	301535	'Abud	Ramallah	20/10/2004											
12	301565	'Atara	Ramallah	18/10/2004	15.0	12.0	1	'Atara				500	450		
13	301570	Deir Abu Mash'al	Ramallah	18/10/2004	15.0	10.0			1	2	2	300	450		
14	301610	Silwad	Ramallah	19/10/2004											
15	301630	Jammala	Ramallah	21/10/2004											
16	301670	Abu Shukheidim	Ramallah	16/10/2004											
17	401995	Biddu	Jerusalem	17/10/2004	9.0	6.0					1	1200	1000		1
18	452180	Al 'Ubeidiya	Betlehem	20/10/2004	15.0	10.0			1	1		1000	500		
19	452225	Dar Salah	Betlehem	21/10/2004	15.0	20.0			1	1		200	100		
20	452285	Ash Shawawra	Betlehem	11/10/2004	15.0	10.0			1			500	200		

No.	Comm. ID	Comm. Name	District	Date	Tanker W. price (NIS / m ³)		Check Points (CP) effect on tankers					W.Tankers Supply (m3/month)		Damaged tankers (No.)		
					During Intifada	Before Intifada	Fixed CP	Fixed CP name	Mobile CP	Earth mounds effect	Curfew effect	Current	Regular	Comp.	Partial	
21	452290	Ras al Wad	Betlehem	12/10/2004	15.0	10.0			1				400	200		
22	452310	Wadi Umm Qal'a	Betlehem	13/10/2004	20.0	10.0			1				100	50		
23	452340	Khirbet an Nahla	Betlehem	14/10/2004	20.0	10.0							10	5		
24	502675	Khirbet al Hasaka	Hebron	18/10/2004	15.0	10.0			1	1			50	20		
25	502680	Beit 'Einun	Hebron	17/10/2004	15.0	10.0			1	2			500	200		
26	502720	Al 'Uddeisa	Hebron	18/10/2004	15.0	10.0			1	1			500	300		
27	502855	Qalqas	Hebron	19/10/2004	20.0	10.0				2			100	50		
28	552681	Al Qaraya al Badawiya al Maslakh	North Gaza	12/10/2004	35.0	35.0			2	2	1					
29	602775	Ash Shati' Camp	Gaza	14/10/2004	35.0	35.0										
30	602825	Gaza	Gaza	11/10/2004	35.0	35.0										
31	602945	Al Mughraqa (Abu Middein)	Gaza	14/10/2004	35.0	35.0										
32	703415	Al Mawasi (Khan Yunis)	Khan Yunis	23/10/2004	35.0	35.0	2	Gush Qatif settlement area	2	2	2		1200			
33	703480	Umm al Kilab	Khan Yunis	11/10/2004	35.0	35.0	2	Morag settlement	2	2	2		300			
34	753435	Al Mawasi (Rafah)	Rafah	23/10/2004	35.0	35.0	2	Gosh Qatif Settlements	2	2	2		1200			
35	753460	Tall as Sultan Camp	Rafah	23/10/2004	35.0	35.0					1					
36	753490	Rafah	Rafah	23/10/2004	35.0	35.0				1	1					
37	753495	Rafah Camp	Rafah	23/10/2004	35.0	35.0	0		0	0	0					

Table 2: Water supply by Mekorot Company for communities surveyed during the past two weeks (October/ 2004).

No.	Comm. ID	Comm. Name	District	Date	Water supply (m3/month)		
					From all sources	Mekorot Supply (current)	Mekorot Supply (regular)
1	50550	Tayasir	Tubas	19/10/2004	3200		
2	50740	Wadi al Far'a	Tubas	17/10/2004	5000		
3	50755	Tammun	Tubas	21/10/2004	25000		
4	150990	Tell	Nablus	24/10/2004	10000		
5	151095	'Asira al Qibliya	Nablus	21/10/2004	5000	3500	4000
6	151385	Majdal Bani Fadil	Nablus	20/10/2004	4000	3000	3500
7	200995	Khirbet Sir	Qalqiliya	18/10/2004	1300		
8	201100	'Azzun	Qalqiliya	19/10/2004	28000		
9	301460	Mazari' an Nubani	Ramallah	18/10/2004	3500		
10	301475	'Arura	Ramallah	18/10/2004	7000		
11	301535	'Abud	Ramallah	20/10/2004	2500	6500	6500
12	301565	'Atara	Ramallah	18/10/2004	3000		
13	301570	Deir Abu Mash'al	Ramallah	18/10/2004	3000	2000	2800
14	301610	Silwad	Ramallah	19/10/2004	11000		
15	301630	Jammala	Ramallah	21/10/2004	2000	2800	3000
16	301670	Abu Shukheidim	Ramallah	16/10/2004	4000		
17	401995	Biddu	Jerusalem	17/10/2004	10000	8000	9000
18	452180	Al 'Ubeidiya	Betlehem	20/10/2004	10000	9000	12000
19	452225	Dar Salah	Betlehem	21/10/2004	1100	900	1100
20	452285	Ash Shawawra	Betlehem	11/10/2004	3000	2000	3000
21	452290	Ras al Wad	Betlehem	12/10/2004	1000	600	1000
22	452310	Wadi Umm Qal'a	Betlehem	13/10/2004	300	200	350
23	452340	Khirbet an Nahla	Betlehem	14/10/2004	40	30	50
24	502675	Khirbet al Hasaka	Hebron	18/10/2004	200	150	250
25	502680	Beit 'Einun	Hebron	17/10/2004	3000	2000	3000
26	502720	Al 'Uddeisa	Hebron	18/10/2004	2000	1500	2500
27	502855	Qalqas	Hebron	19/10/2004	1000	700	1000
28	552681	Al Qaraya al Badawiya al Maslakh	North Gaza	12/10/2004	16800		
29	602775	Ash Shati' Camp	Gaza	14/10/2004	754451		
30	602825	Gaza	Gaza	11/10/2004	1760385		
31	602945	Al Mughraqa (Abu Middein)	Gaza	14/10/2004	17000		
32	703415	Al Mawasi (Khan Yunis)	Khan Yunis	23/10/2004	15000		
33	703480	Umm al Kilab	Khan Yunis	11/10/2004	6000		
34	753435	Al Mawasi (Rafah)	Rafah	23/10/2004	15000		
35	753460	Tall as Sultan Camp	Rafah	23/10/2004	112900		
36	753490	Rafah	Rafah	23/10/2004	282250		
37	753495	Rafah Camp	Rafah	23/10/2004	169350		

Table 3: Effect of checkpoints, earth mounds, and curfews on access to services in the surveyed communities (October 2004).

No.	Comm. ID	Comm. Name	District	Date	Fixed check point effect on						Mobile check point effect on			Earth mounds effect on			Curfew effect on		
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
1	50550	Tayasir	Tubas	19/10/2004															
2	50740	Wadi al Far'a	Tubas	17/10/2004					2	Beit Eba			2			2			2
3	50755	Tammun	Tubas	21/10/2004					2	Beit Iba / Shavi Shamron	1		2						
4	150990	Tell	Nablus	24/10/2004	2	Sarra	2	Sarra	2	Sarra and Beit Iba	2	2	2	2	2	2	1	1	1
5	151095	'Asira al Qibliya	Nablus	21/10/2004					2	Howwara	2		2	2		2	2		2
6	151385	Majdal Bani Fadil	Nablus	20/10/2004	2	Howwara			2	Howwara	2	2	2	2		2	1	1	1
7	200995	Khirbet Sir	Qalqiliya	18/10/2004			1	Qalqiliya	1	Qalqiliya	1	1	1				1	1	1
8	201100	'Azzun	Qalqiliya	19/10/2004			1	Qalqiliya and 'Azun gate	1	Qalqiliya and 'Azun gate		1	1						
9	301460	Mazari' an Nubani	Ramallah	18/10/2004							1								
10	301475	'Arura	Ramallah	18/10/2004							1								
11	301535	'Abud	Ramallah	20/10/2004			1							1				1	1
12	301565	'Atara	Ramallah	18/10/2004	1	'Atara	1	'Atara	1	'Atara			1						
13	301570	Deir Abu Mash'al	Ramallah	18/10/2004							1	1	1	2	2	2	2	2	2

No.	Comm. ID	Comm. Name	District	Date	Fixed check point effect on						Mobile check point effect on			Earth mounds effect on			Curfew effect on		
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
14	301610	Silwad	Ramallah	19/10/2004														2	2
15	301630	Jammala	Ramallah	21/10/2004															
16	301670	Abu Shukheidim	Ramallah	16/10/2004								1							
17	401995	Biddu	Jerusalem	17/10/2004													1		
18	452180	Al 'Ubeidiya	Betlehem	20/10/2004							1	1	1	1	1	1			
19	452225	Dar Salah	Betlehem	21/10/2004							1	1	1	1	1	1			
20	452285	Ash Shawawra	Betlehem	11/10/2004							1		1						
21	452290	Ras al Wad	Betlehem	12/10/2004							1	1	1						
22	452310	Wadi Umm Qal'a	Betlehem	13/10/2004							1	1	1						
23	452340	Khirbet an Nahla	Betlehem	14/10/2004															
24	502675	Khirbet al Hasaka	Hebron	18/10/2004							1	1	1	1	1	1			
25	502680	Beit 'Einun	Hebron	17/10/2004							1	1	1	2	1	1			
26	502720	Al 'Uddeisa	Hebron	18/10/2004							1	1		1	1	1			
27	502855	Qalqas	Hebron	19/10/2004										2		2			
28	552681	Al Qaraya al Badawiya al Maslakh	North Gaza	12/10/2004			1	Netsanet settlement	1	Netsanet settlement	2	2	1	2	2	2	1	2	2
29	602775	Ash Shati' Camp	Gaza	14/10/2004															
30	602825	Gaza	Gaza	11/10/2004															

No.	Comm. ID	Comm. Name	District	Date	Fixed check point effect on						Mobile check point effect on			Earth mounds effect on			Curfew effect on		
					Tankers	Ch. Point name	Maintenance teams	Ch. Point name	PHC access	Ch. Point name	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access	Tankers	Maintenance teams	PHC access
31	602945	Al Mughraqa (Abu Middein)	Gaza	14/10/2004			2	Netzareem				1			2			1	
32	703415	Al Mawasi (Khan Yunis)	Khan Yunis	23/10/2004	2	Gush Qatif settlement area	2	Gush Qatif settlement area	2	Gush Qatif settlement area	2	2	2	2	2	2	2	2	2
33	703480	Umm al Kilab	Khan Yunis	11/10/2004	2	Morage settlement	2	Morage settlement	2	Morage settlement	2	2	2	2	2	2	2	2	2
34	753435	Al Mawasi (Rafah)	Rafah	23/10/2004	2	Gosh Qatif Settlements	2	Gosh Qatif Settlements	2	Gosh Qatif Settlements	2	2	2	2	2	2	2	2	2
35	753460	Tall as Sultan Camp	Rafah	23/10/2004			1	Gosh Qatif settlements group	1	Gosh Qatif settlements group		1				1	1	2	2
36	753490	Rafah	Rafah	23/10/2004			1	Gush Qatif settlements					1	1	2	1	1	1	1
37	753495	Rafah Camp	Rafah	23/10/2004	0		1	Border towers / Tal Zouroub	NA		0	1	NA	0	1	NA	0	1	NA

Table 4: Damages in water infrastructure during the past two weeks (October 2004).

No.	Comm. ID	Comm. Name	District	Date	Wells		Springs		Tankers		Roof Tanks	Cisterns	Reservoirs		Water Network Destruction		
					Comp.	Part.	Comp.	Part.	Comp.	Part.			Comp.	Part.	Main Lines	Secondary Lines	% of affected population
1	50550	Tayasir	Tubas	19/10/2004								1			No	No	
2	201100	'Azzun	Qalqiliya	19/10/2004		1						30			No	No	
3	301570	Deir Abu Mash'al	Ramallah	18/10/2004							15				No	No	
4	301610	Silwad	Ramallah	19/10/2004							18	1			No	No	
5	401995	Biddu	Jerusalem	17/10/2004					1		12	1			No	No	
6	552681	Al Qaraya al Badawiya al Maslakh	North Gaza	12/10/2004							50				Yes	No	100
7	602945	Al Mughraqa (Abu Middein)	Gaza	14/10/2004							20				No	No	
8	703415	Al Mawasi (Khan Yunis)	Khan Yunis	23/10/2004							30				No	No	
9	703480	Umm al Kilab	Khan Yunis	11/10/2004		2					40				No	Yes	20
10	753435	Al Mawasi (Rafah)	Rafah	23/10/2004							30				No	No	
11	753460	Tall as Sultan Camp	Rafah	23/10/2004							150				No	No	
12	753490	Rafah	Rafah	23/10/2004							50				No	No	
13	753495	Rafah Camp	Rafah	23/10/2004							120				No	Yes	25

Table 5: Water supply for the surveyed communities and its major problems.

No.	Comm. ID	Comm. Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
1	50550	Tayasir	Tubas	19/10/2004	3200	There is a water network in the community since 1997 but is not connected to a water source since then. Water is brought from Al Fara'a by tankers and it is thought that water is polluted; cisterns are another source of water in the community.
2	50740	Wadi al Far'a	Tubas	17/10/2004	5000	This community has many sources of water but does not have water network because it does not have a license for it. 2000 m3 / month are supplied through tankers, 2000 m3/month through agricultural water network and 1000 m3 / month from cisterns.
3	150990	Tell	Nablus	24/10/2004	10000	No network is available in the community. Main sources of water are tankers from the Mekorot connection in Sarra, in addition to local springs and cisterns which is not chlorinated.
4	151095	'Asira al Qibliya	Nablus	21/10/2004	5000	Chlorination of water is until the source of water.
5	151385	Majdal Bani Fadil	Nablus	20/10/2004	4000	No water network, water is brought from a Mekorok connection through tankers. Water from the Mekorot connection is chlorinated and tablets are used for cisterns.
6	200995	Khirbet Sir	Qalqiliya	18/10/2004	1300	About 1000 m3 / month are brought from 'Azzon well which is owned by the municipality.
7	201100	'Azzun	Qalqiliya	19/10/2004	28000	Water is supplied through 'Azzun well which is owned by the municipality.
8	301460	Mazari' an Nubani	Ramallah	18/10/2004	3500	Water is supplied from the Ein Samya wells through the Jerusalem Water Undertaking (JWU).
9	301535	'Abud	Ramallah	20/10/2004	2500	60 cases of Jaundice and Ameba were registered in the community in 2004. It is thought that it is related to water. High % of water losses in the water network (60%). Israeli forces caused huge destruction in the network but were rehabilitated last month.
10	301565	'Atara	Ramallah	18/10/2004	3000	More than 800 cases affected by "Jaundice" disease were registered in the community during 2004. Live stock is a main source of income for the community, about 1000 m3 / month is consumed by animals.
11	301570	Deir Abu Mash'al	Ramallah	18/10/2004	3000	300 cases of Jaundice and Ameba were registered in the community during 2004. It is thought that because the network is very old, water is easily polluted causing water related diseases in the community.

No.	Comm. ID	Comm. Name	District	Date	Supply from all sources (m ³ / month)	General Comments for the community
12	301610	Silwad	Ramallah	19/10/2004	11000	The community is invaded several times in addition to imposing curfew on it for long time. In each incursion, roof tanks are considered main target for Israeli forces.
13	301630	Jammala	Ramallah	21/10/2004	2000	Springs in the community are used mainly for agricultural use where agriculture is a main source of income in the community, and water is transported through animals.
14	301670	Abu Shukheidim	Ramallah	16/10/2004	4000	Water meters are shared between groups of households.
15	552681	Al Qaraya al Badawiya al Maslakh	North Gaza	12/10/2004	16800	The area is very close to pollution sources which are affecting the environment; this includes Jabalya, Beit Lahiya and Beit Hanun sewage ponds.
16	602825	Gaza	Gaza	11/10/2004	1760385	Water is provided to households through Municipal wells.
17	602945	Al Mughraqa (Abu Middein)	Gaza	14/10/2004	17000	Water is provided to households through Municipal wells.
18	703480	Umm al Kilab	Khan Yunis	11/10/2004	6000	Water is provided to households through agricultural water networks.
19	753435	Al Mawasi (Rafah)	Rafah	23/10/2004	15000	Water is provided to households through agricultural water networks.
20	753460	Tall as Sultan Camp	Rafah	23/10/2004	112900	Source of water is through Municipal wells
21	753495	Rafah Camp	Rafah	23/10/2004	169350	Source of water is through Municipal wells. Large destruction including houses in the eastern and western part of the camp to build the "security zone".