

ÖZKARTALLAR CAMPAK JOINT VENTURE

**Solid Waste  
Management Plan for  
Rehman Pura (UC-107)**

2015

*By:*

*M Ali Saleem  
Deputy Manager Operations*

5TH FLOOR, SHAHEEN COMPLEX, EGERTON ROAD, LAHORE

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## Özkartallar Campak Joint Venture

### 1. Facts

SR.N	Description	
1	Phase	C
2	UC	107 –Rehman Pura
3	Deputy Manager Operations	M. Ali Saleem
4	Zonal Officer LWMC	Tayyab
5	Population	62019
6	UC Area	1167340 m <sup>2</sup> (middle income)
7	Waste Generation (estimated)	40.31 Tons/day

### 2. Operational Arrangements / Resources Deployed

#### 2.1 1<sup>st</sup> Shift Arrangement – 6 AM to 2 PM

<b>Manual Sweeping</b>		
Sanitary Supervisors	4	
Sanitary Workers	46	
Wheelie Bins	3	
Hand Carts	29	
<b>Special Gang</b>		
Sanitary Workers	33	
Sanitary Supervisor	1	
<b>Note:</b> Special Gang solely on Deputy Manager disposal to attend important complaints and to work for absent workers beats of the day		
<b>Containers Collection</b>		
Containers Placed	84	
Containers Points	52	
Compactors	C-1034	1 trip, approx. 10 tons
	C-1055	1 trip, approx. 10 tons
Drivers	2	
Helpers	4	
<b>D-T-D Collection</b>		
Mini Dumpers – Suzuki Pickup	1	MD-22
Driver	1	
Helper	1	
<b>Note:</b> Compactor also collecting waste if waste bags found on road or in front of home or shop		

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### 2.2 2<sup>nd</sup> Shift Arrangement - 2 PM to 10 PM

<b>Manual Sweeping - Special Gang</b>		
Shift In-charge	1	
Sanitary Workers	4	
<b>Note:</b> for taking care of whole UC-107, attending major roads, markets, 1139 complaints and to coordinate compactors and ensure containers collection.		
<b>Containers Collection</b>		
Compactors	1	C13-1075, 1 trip (approx. 8 to 10 tons)
Note: attending UC-107		

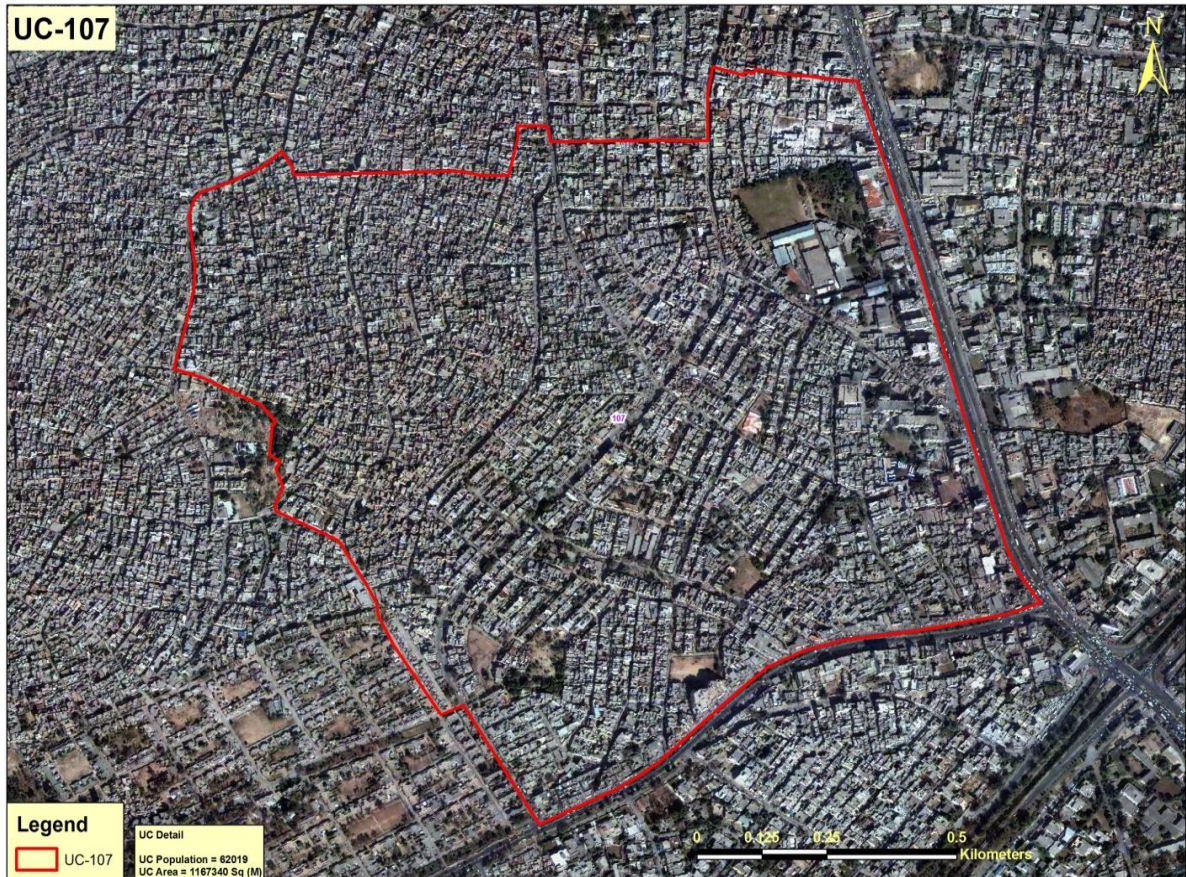
### 2.3 3<sup>rd</sup> Shift Arrangement – 10 PM to 6 AM

<b>Containers Collection</b>		
Compactors	1	C-1019 1 trip, approx. 10 tons
Driver	1	
Helper	2	
<b>Note:</b> Attending All UC's		

### 3 Introduction

Union Council – 107 (Rehman Pura) is located in Samanabad Town. Total area of the UC is 1167340 m<sup>2</sup> with population of 62019<sup>1</sup>. This area is predominantly middle income area with planned settlement.

Figure 1: Map of UC 107 Rehman Pura



### 4 Solid Waste Generation

Estimated solid waste generation is 40.31 tons per day @ waste generation rate of 0.65 kg/person/day.

### 5 Solid Waste Management Practices

This area is under control of M/s. OZPak J.V for solid waste management. Existing arrangements for SWM based upon actual operations are as follows:

<sup>1</sup> Punjab Development Statistics – 2011, Bureau of Statistics, Govt. of the Punjab

## 6 Street Sweeping and Waste Collection by Sanitary Workers

### 6.1 Team Division

Teams are divided according to equivalent sweeping length of the area which is as follows:

Teams/Block	Street Length (m)	Length per Worker (m)
1	15900	1060
2	12700	1154
3	15300	1020
<b>Total</b>	<b>43900</b>	<b>Avg. (1078)</b>

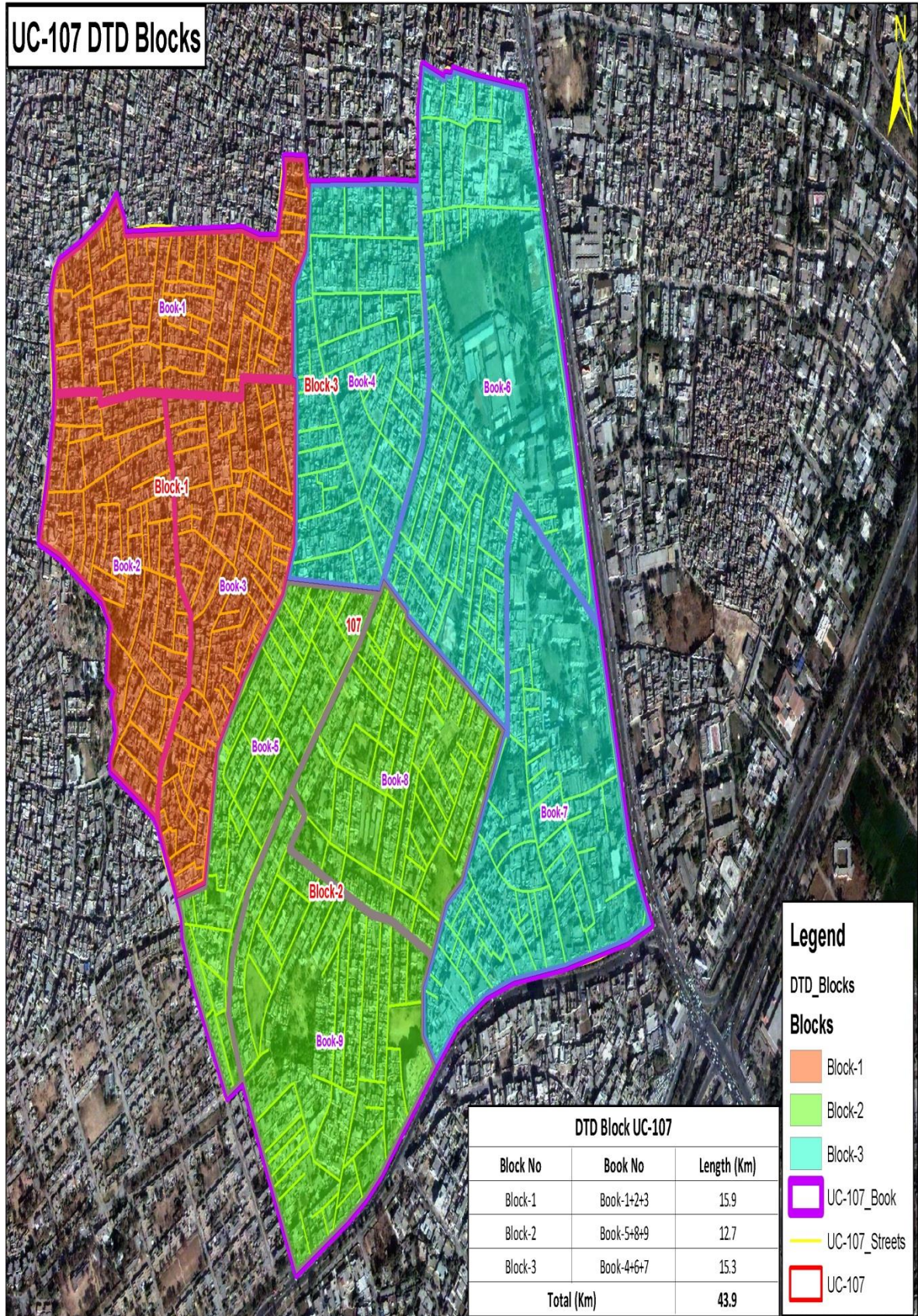
- Approximately 15 sanitary workers deployed in each Team and each sanitary worker has his own defined beat.
- Solid waste is collected by sanitary workers from streets & households and hauled to container by wheelie bins / hand carts.
- Waste bags also used for roads sweeping

## 7 Human Resource

Teams	Supervisor/Sargent	Sanitary workers
1	Sergeant 1	15
2	Sergeant 2	11
3	Sergeant 3	15
<b>Total</b>	<b>3</b>	<b>46</b>

<b>Overall In-Charge Manual Sweeping</b>	ABUBAKAR (0323-4826176)
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Figure 2: Map of System Blocks/Teams

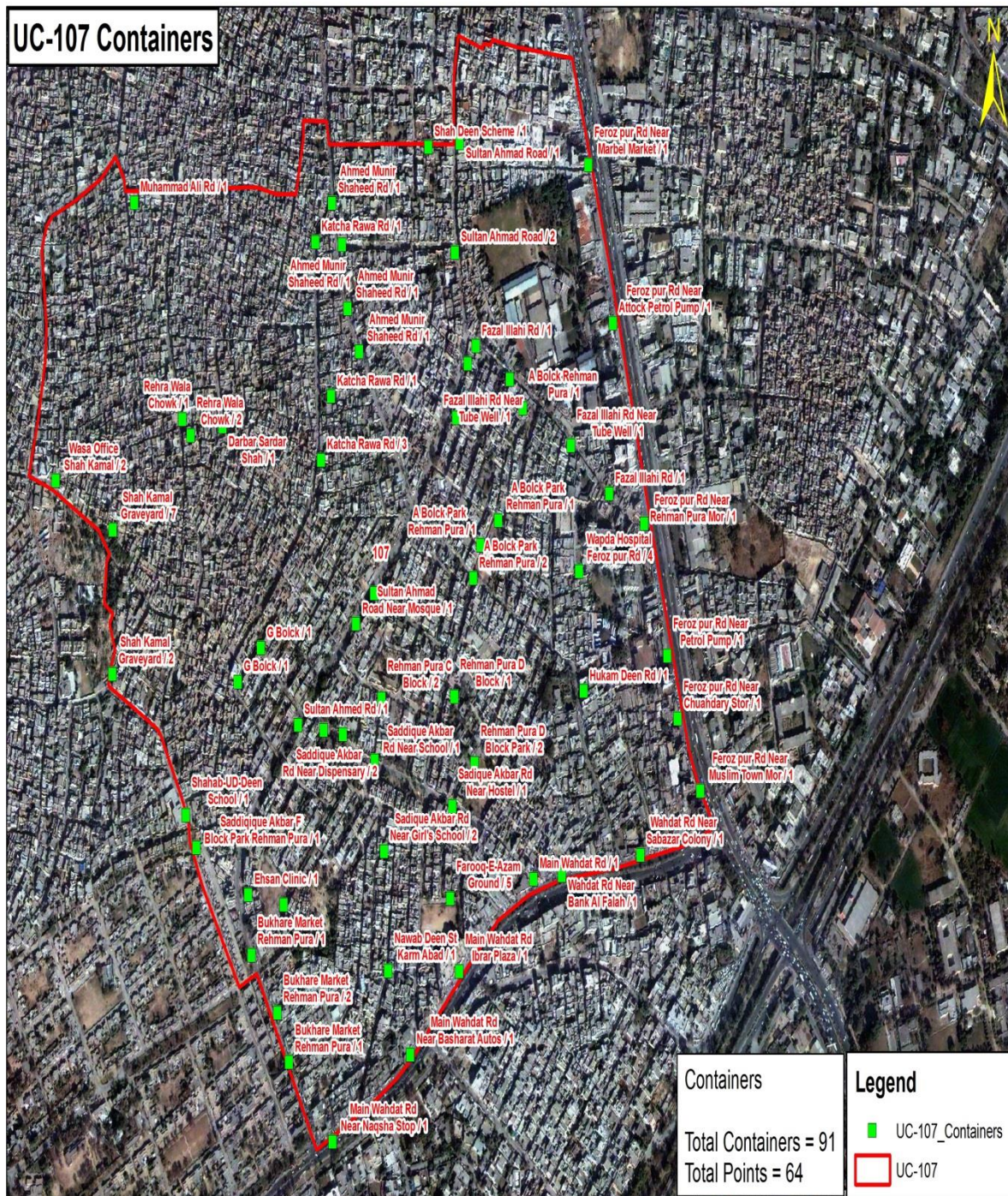


8 Solid Waste Storage

8.1 Waste Storage Facility

- Currently 84 waste storage containers are placed at 52 different points.
- Storage capacity is 21 tons in one time lifting
- Lifting is operational in 3 times

Figure 3: Location of Containers





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### 8.2 Points of Containers

Sr. No.	Location of Containers	No. of Containers
<b>C13-1034</b>		
1	Naqsha Stop Wahdat Road	1
2	Karmabad near Warid Office	1
3	Abrar Centre Wahdat Road	1
4	Mian Saeed Colony Wahdat Road	1
5	Sabzazar Colony Wahdat Road	1
6	218 Ferozpur Road	1
7	216 Ferozpur Road	1
8	Jawa Hotel Ferozpur Road	1
9	Abu Yousif Ferozpur Road	1
10	Marble Market Ferozpur Road	1
11	Aziz Street MPA Road	2
12	Al-Bilal Real Estate	2
13	Gourmet Bakery Sultan Ahmad Road	1
14	Outside A Block Sultan Ahmad Road	1
15	Bilal Masjid Fazal Elahi Road	1
16	Ambessedor Factory Fazal Elahi Road	1
17	WASA Filtration Plant Fazal Elahi Road	1
18	Infront of Bilo Pan Shop Fazal Elahi Road	1
19	17-A B Block	1
20	Hukam Din Road Qadri Ground A Block	2
21	Backside of Qadri Ground A Block	2
22	Pakistan Government School C Block	2
23	WASA Office Siddique Akbar Road	2
24	Government School Siddique Akbar Road	2
25	E Block Siddique Akbar Road	1
26	BATA Shop Siddique Akbar Road	1
27	Farooq-e-Azam Ground	6
28	D Block Ground	2
29	316 D Block	1
30	Ali Factory Shahid Colony	1
31	Masjid Nawab Din Karmabad	1
<b>Sub Total</b>		<b>44</b>
<b>C13-1055</b>		
32	Naqsha Stop Sultan Ahmad Road	2
33	Bukhari Market Sultan Ahmad Road	2
34	F Block Sultan Ahmad Road	1
35	Outside Wahdat Colony Sultan Ahmad Road	2
36	Berry Wala Chowk Sultan Ahmad Road	2
37	Jam-e-Qasmia Sultan Ahmad Road	2
38	Noble Hospital Sultan Ahmad Road	2
39	Munir Shaheed Road near Asim Pan Shop	1

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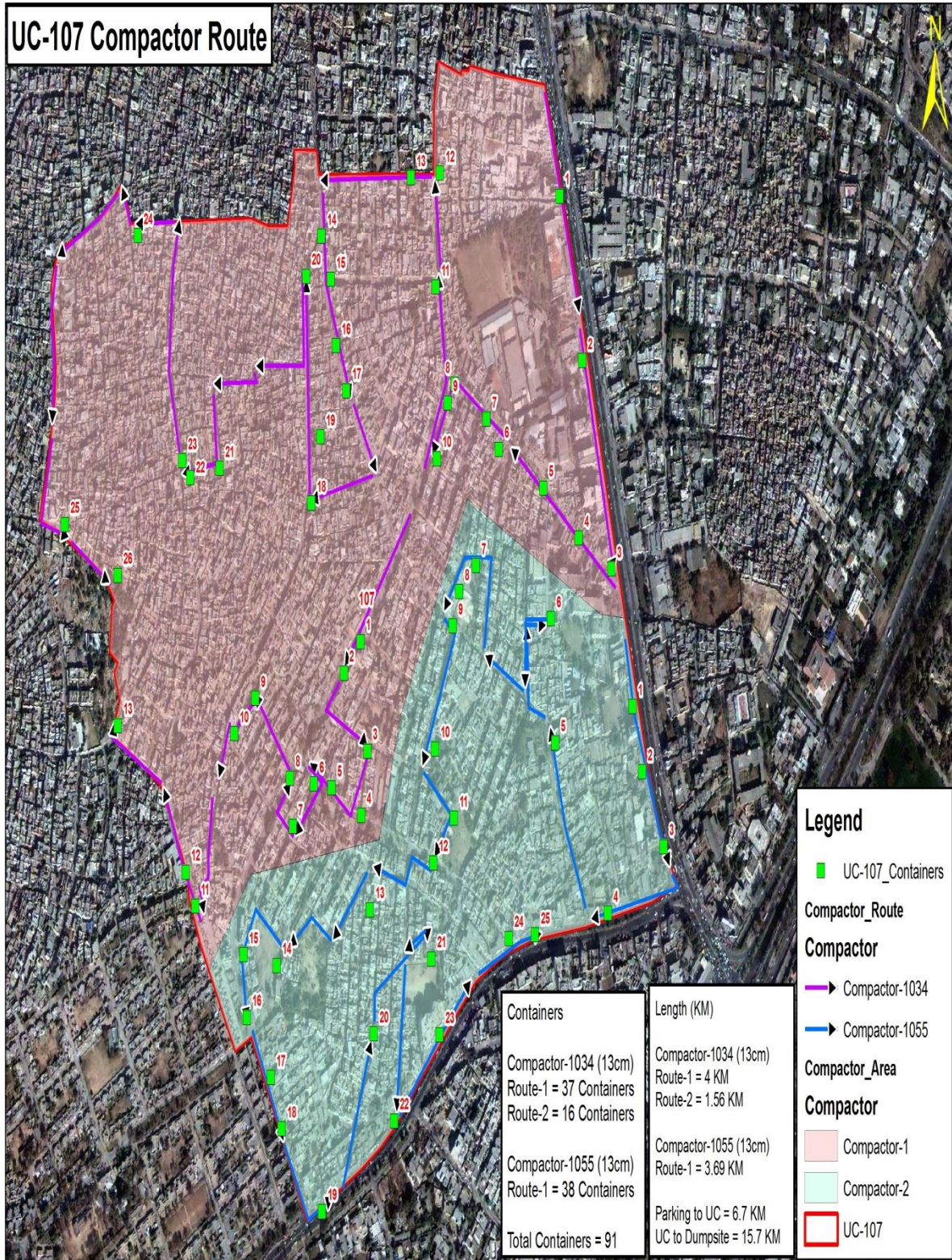
40	Sher Afgan Street Munir Shaheed Road	1
41	Infront of Mosque Munir Shaheed Road	1
42	Shah Din Scheme Munir Shaheed Road	2
43	Qadri Chowk Munir Shaheed Road	1
44	G.R Medicos Kacha Ravan Road	2
45	Beauty Saloon Kacha Ravan Road	2
46	Shah Kamal Qabristan	9
47	Shahbuddin School	1
48	400 G Block	2
49	UC Office F Block	1
50	280 F Block	1
51	380 F Block	2
52	Triangular Ground F Block	1
	<b>Sub Total</b>	<b>40</b>
	<b>Grand Total</b>	<b>84</b>

<b>Overall In-charge Container Collection</b>	ABUBAKAR (0323-4826176)
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9 Solid Waste Collection & Transportation

9.1 Route for Compactor

Figure 3: Route for Compactor Vehicle (little variation possible)



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**9.2 Staff Deployment for Compactor Vehicle**

<b>Conservancy Staff Zone-20</b>						
<b>Overall In-charge =M Ali (0333-8309550)</b>						
<b>Supervisor = Liaqat Suroya (0323-4690682)</b>				<b>Supervisor = Zafar Iqbal (0321-4835525)</b>		
<b>1st shift</b>				<b>2nd shift</b>		
<b>UC</b>	<b>Vehicle No.</b>	<b>Driver Name &amp; Mobile No.</b>	<b>Helpers</b>	<b>Vehicle No.</b>	<b>Driver Name &amp; Mobile No.</b>	<b>Helpers</b>
103	1089	Ashfaq Hamid (0322-8439732)	Nazar Laal Nadeem Younas	1098	Nasir Munir (0311-4414151)	Waqas
	1012	Farooq Hussain (0322-4221120)	Aslam Bashir khuram Georange			Mushtaq
104	1075	Shahid Mehmood (0341-4000142)	Adnan Riaz Liaqat Shir	1089	Nadeem Butt (0322-8065612)	Pervaiz
	1098	Nadeem Rashid (0315-6939439)	Amin Sama Riaz			Ashraf
107	1034	Asrar Ghulam (0300-4612488)	Javaid Daniyal Azeem Boota	1075	Sarwer (0323- 864085)	Baber
	1055	Muzamal Peer (0344-4065213)	Son Natha Javaid Laba			Fiaz
108	1043	Asif Siddique (0300-8810736)	Salim Sadiq safdar dogar	1098	Nasir Munir (0311-4414151)	Waqas
	1036	Qaiser Masih (0304-4651052)	Rafique Hadyat Qaiser josaph			Mushtaq
109	1097	Akmal Akbar (0344-7841179)	Baga Karamat Ali Riaz	1091	Muhammad Tariq (0300- 4820350)	Sunny
	1024	Adnan George (0315-4688438)	Sadiq Saraj & Azmat			Shahbaz
115	1040	Illyas Hamid (0311-4944290)	Daniyal sabar Kramat Manha	1066	Heera (0314- 4976088)	Sohail
	1091	Bola Mangta (0331-4718543)	Naeem Salim Ishaq			Nadeem
<b>All UC's Main Roads</b>	1064	M. Maalik (0306-4010063)	Karamat Kala Inayat			
<b>Multan Road</b>	1066	Amanat Laba (0302-4832052)	Imran Fiaz			

**10 Door To Door Waste Collection**

**10.1 System for D-T-D Waste Collection**

- 1 Mini-Dumper for door to door waste collection
- Waste collected by pickup will be unloaded into nearby Compactor or transfer station.
- Compactors are also collecting waste if found in waste bags on road or in front of home or shop

<b>Mini Dumper / Suzuki Pickup</b>			
Block 1	6:30 AM to 9:00 AM	Block 2	9:00 AM to 11:00 AM
Block 3	11:00 AM to 1:00 PM		

<b>Blocks</b>	<b>Major Areas/ Muhallas</b>
<b>Block 1</b>	Nawab Pura Complete, G Block
<b>Block 2</b>	A Block, B Block, C Block
<b>Block 3</b>	D Bock, E Block F Block

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Figure: 5 Door-to-Door Maps

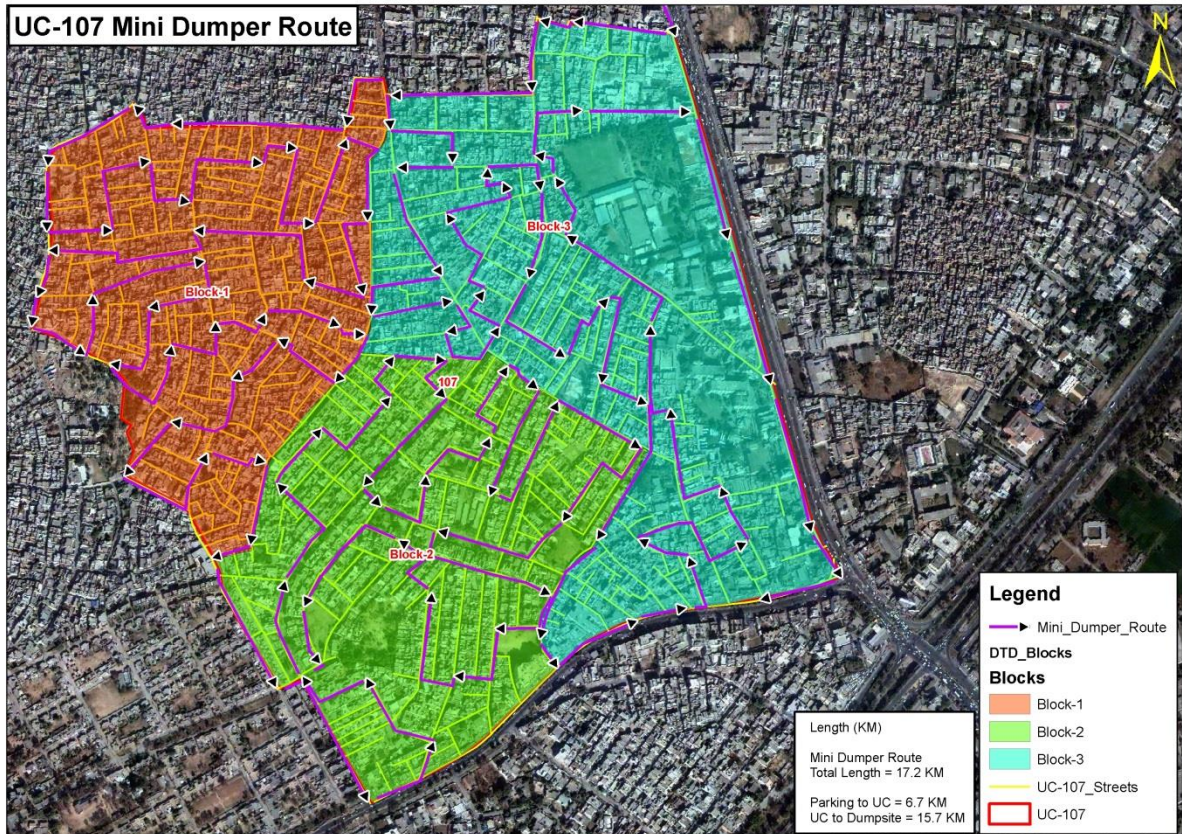
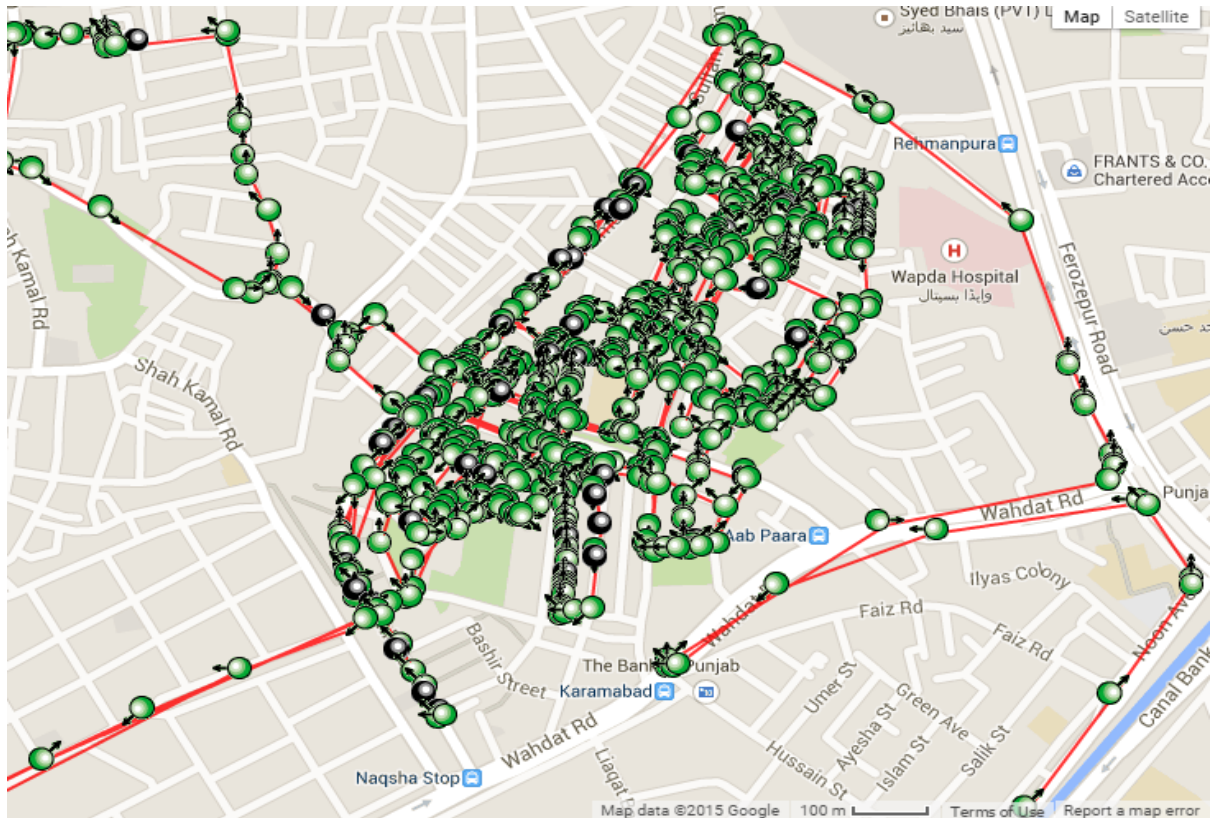


Figure: 6 Mini-Dumper Screen Shot



**11 Major Roads**

- Wahdat Road
- Ferozpur Road
- Sultan Ahmad Road
- MPA Road
- Fazal Elahi Road
- Hukam Din Road
- Kacha Ravan Road

**12 C & D Points**

- Farooq-e-Azam Ground
- Qadri Ground A-Block
- Fazal Elahi Road

**13 Problematic Points**

- Shah Kamal Qabristan
- Farooq-e-Azam Ground
- Sultan Ahmad Road