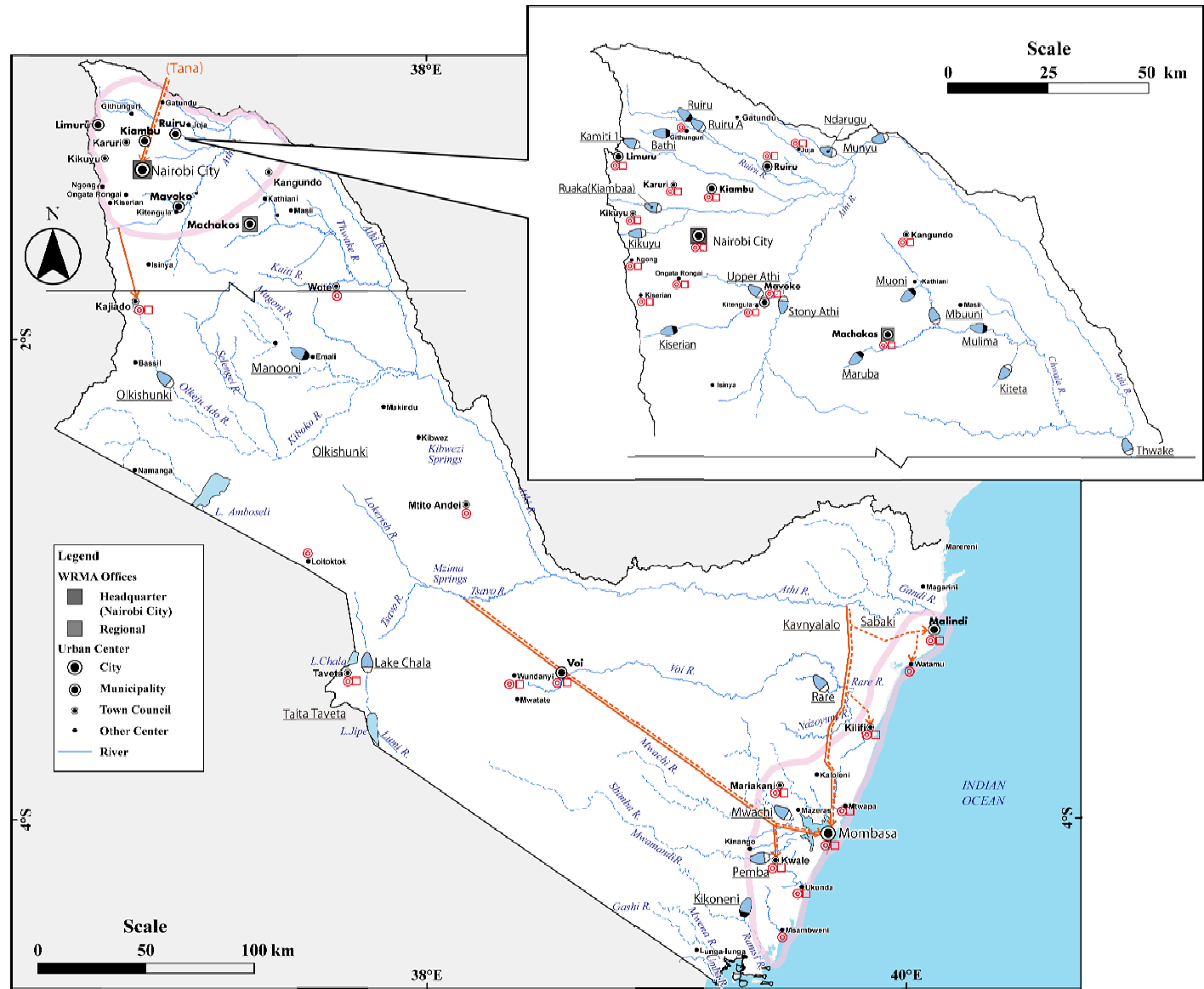
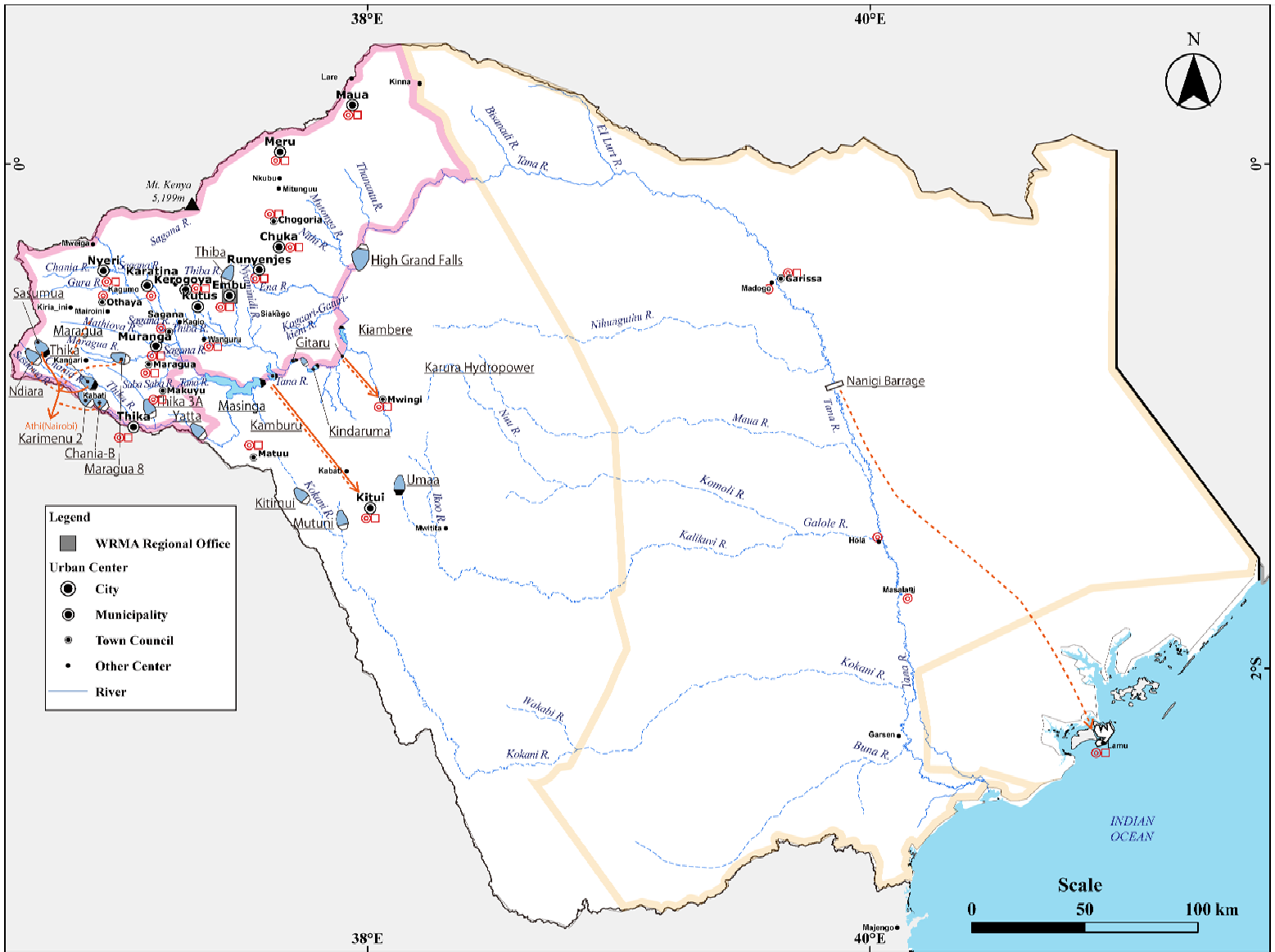


Source: JICA Study Team



LEGEND OF PLANS	Urban Water Supply Development	Water Transfer (Existing)	High Population Density Area	Dam (Existing)
	Sewerage Development	Water Transfer (Proposed)		Dam (Proposed)

Figure 3.6.1  
Proposed Urban Water Supply and  
Sewerage Development Plans (ACA)



**Legend**

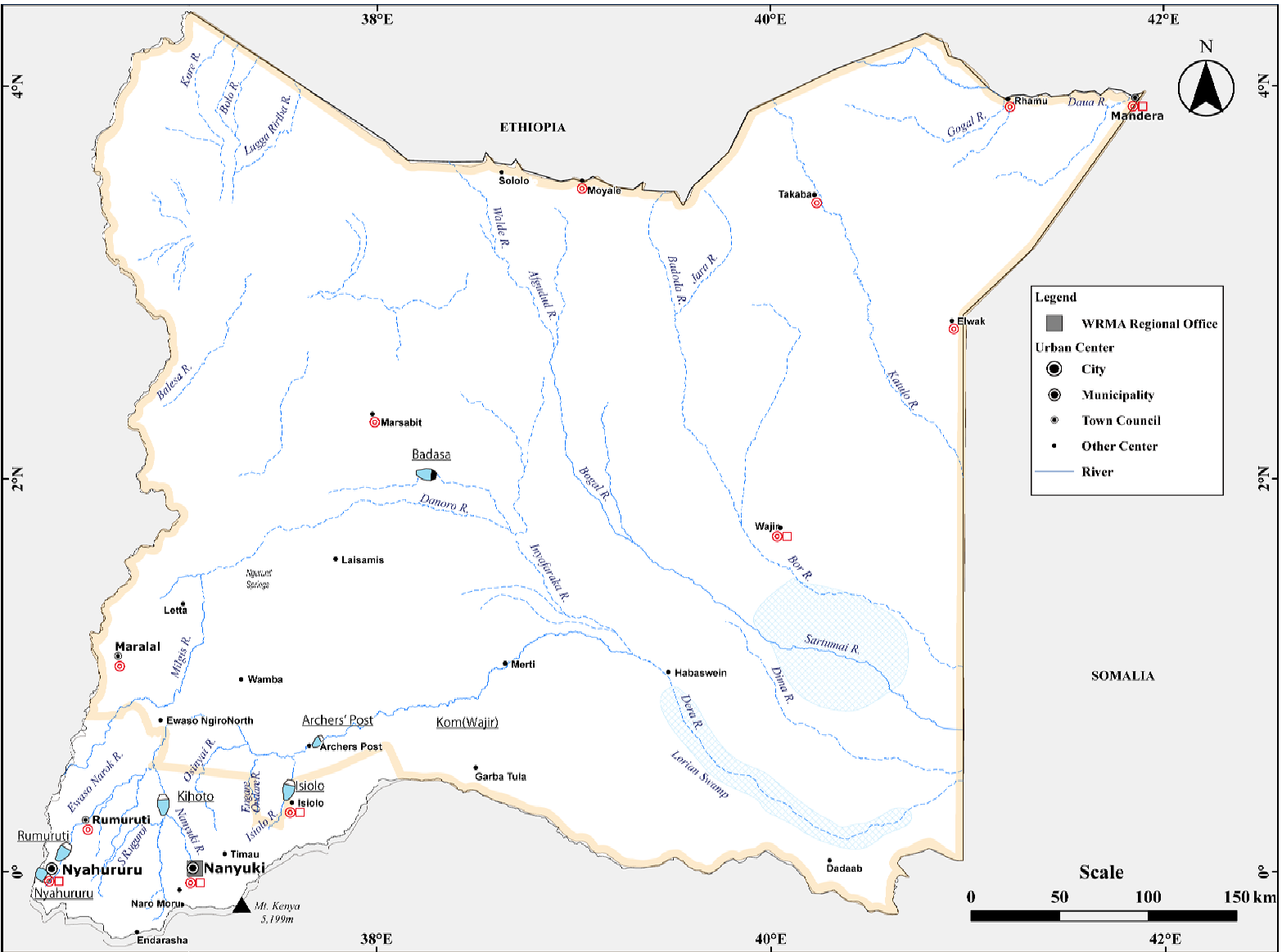
- WRMA Regional Office
- Urban Center
- City
- Municipality
- Town Council
- Other Center
- River

<b>LEGEND OF PLANS</b>	⊙ Urban Water Supply Development	→ Water Transfer (Existing)	⊖ High Population Density Area	■ Dam (Existing)
	□ Sewerage Development	⋯ Water Transfer (Proposed)	⊖ Arid Area	■ Dam (Proposed)

Source: JICA Study Team

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Figure 3.7.1  
 Proposed Urban Water Supply and  
 Sewerage Development Plans (TCA)



Source: JICA Study Team

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**Figure 3.8.1**  
**Proposed Urban Water Supply and Sewerage Development Plans (ENNCA)**

<b>LEGEND OF PLANS</b>	Urban Water Supply Development	Water Transfer (Existing)	Arid Area	Dam (Existing)
	Sewerage Development	Water Transfer (Proposed)		Dam (Proposed)

WRMA Catchment	No.	Urban Centre	F/S Status	Capacity to be developed (m <sup>3</sup> /day)			Implementation Schedule																			
							Short Term					Medium Term					Long Term									
				Total	Initial Develop.	Ratio	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
							13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31		
LVN	1	Bondo	WSB, D/D	12,838	3,851	30%	■	■	■						■	■	■									
	2	Siaya	WSB, D/D	5,495	2,000	36%	■	■	■						■	■	■									
	3	Malaba	WSB, F/S	8,238	2,471	30%				■	■	■				■	■	■								
	4	Moi's Bridge	WSB, F/S, MTP	4,440	5,000	100%				■	■	■														
	5	Matunda	WSB, F/S, MTP	2,868	3,600	126%				■	■	■														
	6	Kapenguria	MTP	13,059	3,918	30%				■	■	■					■	■	■							
	7	Eldoret	-	79,439	23,832	30%				■	■	■					■	■	■							
	8	Vihiga	-	45,529	13,659	30%				■	■	■					■	■	■							
	9	Kitale	-	39,931	11,979	30%				■	■	■					■	■	■							
	10	Mumias	-	38,353	11,506	30%						■	■	■						■	■					
	11	Kimilili	-	36,412	10,924	30%						■	■	■						■	■					
	12	Kakamega	-	32,500	9,750	30%						■	■	■						■	■					
	13	Kapsabet	-	30,796	9,239	30%						■	■	■						■	■					
	14	Bungoma	-	16,929	16,929	100%									■	■	■									
	15	Busia	-	16,939	16,939	100%										■	■	■								
	16	Luanda	-	18,928	18,928	100%										■	■	■								
	17	Item/Tambach	-	16,230	16,230	100%										■	■	■								
	18	Webuye	-	13,159	13,159	100%										■	■	■								
	19	Malakisi	-	6,553	6,553	100%											■	■	■							
		Nambale	WSB, F/S							■	■	■														
	Rehabilitation Works for 7 Urban Centres					■	■	■	■	■	■															
	Total		438,636	200,466	46%																					

Note: As for "Project Status", "WSB" means a project proposed by WSB, "MTP" means a flagship project proposed in the First Medium Term Plan (2008 – 2019) of Kenya Vision 2030, and "F/S" means a project proposed in completed F/S.

Source: JICA Study Team

<b>THE DEVELOPMENT OF THE NATIONAL WATER MASTER PLAN 2030</b>	<b>Figure 6.3.1 Implementation Schedule of Proposed Sewerage System Development Plan (LVNCA)</b>
<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	





WRMA Catchment	No.	Urban Centre	F/S Status	Capacity to be developed (m <sup>3</sup> /day)			Implementation Schedule																	
							Short Term					Medium Term					Long Term							
				Total	Initial Develop.	Ratio	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
							13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31
1	Ruiru	WSB, MTP, D/D	79,868	40,000	50%																			
2	Juja	WSB, MTP, D/D	79,868	40,000	50%																			
3	Kikuyu	WSB, D/D	66,693	20,000	30%																			
4	Nairobi	WSB, MTP, F/S	376,367	60,000	22%																			
5	Limuru	WSB, MTP, F/S	12,742	20,000	157%																			
6	Mombasa	WSB, MTP, F/S	229,905	55,325	30%																			
7	Mavoko	WSB, MTP, F/S	26,276	10,000	38%																			
8	Karuri	WSB, MTP	30,802	30,802	100%																			
9	Kiambu	WSB	14,064	24,064	100%																			
10	Ngong	WSB, F/S	36,131	7,500	24%																			
11	Kiserian	WSB, F/S	36,131	7,500	24%																			
12	Kajiado	WSB, F/S	5,700	500	9%																			
13	Kangundd-Tala	WSB	62,497	62,497	100%																			
14	Machakos	WSB, MTP	55,552	57,552	100%																			
15	Ukunda	WSB	17,880	7,880	100%																			
16	Malindi	-	33,818	33,818	100%																			
17	Kitengela	-	16,633	16,633	100%																			
18	Wundanyi	-	14,107	14,107	100%																			
19	Kilifi	-	13,962	13,962	100%																			
20	Mtwapa	-	13,905	13,905	100%																			
21	Ongata Rongai	-	11,489	11,489	100%																			
22	Taveta	-	7,620	7,620	100%																			
23	Mariakani	-	6,879	6,879	100%																			
24	Voi	-	6,579	6,579	100%																			
25	Kwale	-	5,662	5,662	1																			
	Kibwezi	WSB, F/S (additional)	0																					
	Makindu	WSB, F/S (additional)	0																					
	Mtito Andei	WSB, F/S (additional)	0																					
	Emali	WSB, F/S (additional)	0																					
	Sultan Hamud	WSB, F/S (additional)	0																					
	Loitokitok	WSB, F/S (additional)	0																					
	Wote	WSB, F/S (additional)	0																					
	Rehabilitation Works for 5 Urban Centres																							
	Total		1,145,133	526,776	46%																			

Note: As for "Project Status", "WSB" means a project proposed by WSB, "MTP" means a flagship project proposed in the First Medium Term Plan (2008 – 2019) of Kenya Vision 2030, and "F/S" means a project proposed in completed F/S.

Source: JICA Study Team

<b>THE DEVELOPMENT OF THE NATIONAL WATER MASTER PLAN 2030</b>	<b>Figure 6.3.4 Implementation Schedule of Proposed Sewerage System Development Plan (ACA)</b>
<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	

WRMA Catchment	No.	Urban Centre	F/S Status	Capacity to be developed (m <sup>3</sup> /day)			Implementation Schedule																	
							Short Term					Medium Term					Long Term							
				Total	Initial Develop.	Ratio	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
							13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31
Tana	1	Embu	WS, D/D	22,587	6,387	27%	█	█	█															
	2	Maua	WSB, MTP, D/D	6,608	1,982	30%		█	█	█														
	3	Kitui	WSB, MTP, F/S	42,028	5,000	23%					█	█	█											
	4	Meru	WSB, F/S	19,570	10,000	50%			█	█	█													
	5	Lamu	MTP	95,250	26,145	30%					█	█	█											
	7	Thika	WSB, F/S	19,152	40,000	153%			█	█	█													
	6	Chuka	WSB, MTP, F/S*	16,674	3,000	18%			█	█	█													
	7	Garissa	WSB, F/S	9,923	1,561	17%					█	█	█											
	8	Chogoria	F/S*	10,899	3,270	30%			█	█	█													
	9	Runyenjes	WSB, F/S*	7,498	2,249	30%				█	█	█												
	10	Kerugoya/Kutus	WSB, F/S*	7,450	2,235	30%						█	█	█										
	11	Nyeri	WSB	37,681	5,000	11%						█	█	█										
	12	Matuu	MTP	19,467	19,467	100%										█	█	█						
	13	Makuyu	WSB	16,880	16,880	100%										█	█	█						
	14	Muranga	-	9,476	11,037	100%													█	█				
	15	Maragua	-	10,116	10,116	100%													█	█				
	16	Wanguru	-	9,199	9,199	100%													█	█				
	17	Mwingi	-	6,126	6,126	100%													█	█				
Rehabilitation Works for 6 Urban Centres							█	█	█															
Total				366,585	179,655	49%																		

Note: As for "Project Status", "WSB" means a project proposed by WSB, "MTP" means a flagship project proposed in the First Medium Term Plan (2008 – 2019) of Kenya Vision 2030, and "F/S" means a project proposed in completed F/S.

Source: JICA Study Team

<b>THE DEVELOPMENT OF THE NATIONAL WATER MASTER PLAN 2030</b>	<b>Figure 6.3.5 Implementation Schedule of Proposed Sewerage System Development Plan (TCA)</b>
<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	



WRMA Catchment	No.	Urban Centre	F/S Status	Capacity to be developed (m <sup>3</sup> /day)			Implementation Schedule																	
							Short Term					Medium Term					Long Term							
				Total	Initial Develop.	Ratio	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
							13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31
ENN	1	Nyahururu	WSB, F/S	11,364	3,347	29%																		
	2	Mandera	WSB, D/D	8,235	4,000	49%																		
	3	Isiolo	MTP	15,640	4,692	30%																		
	4	Wajir	MTP	7,776	2,333	30%																		
	5	Nanyuki	-	14,652	4,396	30%																		
	Rehabilitation Works for 2 Urban Centres																							
Total				57,667	18,767	33%																		

Note: As for "Project Status", "WSB" means a project proposed by WSB, "MTP" means a flagship project proposed in the First Medium Term Plan (2008 – 2019) of Kenya Vision 2030, and "F/S" means a project proposed in completed F/S.

Source: JICA Study Team

<b>THE DEVELOPMENT OF THE NATIONAL WATER MASTER PLAN 2030</b>	<b>Figure 6.3.6 Implementation Schedule of Proposed Sewerage System Development Plan (ENNCA)</b>
<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	