	Task Name	Duration	ar '11 Apr '11 May '11 Jun '11 Jul '11 Aug '11 Sep '11 C
- -	PRELIMINARY ASSESSMENT STAGE	9 days	
_	PRE FEASIBILITY STAGE (CIDB 'Assessment')	15 days	
	A. Situational Analysis including influent characteristics and treatment plant assessment:	6 days?	
	i) Analyze raw water flows (average daily flows, peak flows and demands);	0.5 days	L L L L L L L L L L L L L L L L L L L
	ii) Analyze raw water characteristics.	0.5 days	L L L L L L L L L L L L L L L L L L L
	iii) Analyze existing treatment plant capacities	1 day	i i i i i i i i i i i i i i i i i i i
,	iv) Analyse treatment processes	1 day	
1	v) Analyze and assess existing unit treatment process capacity and plant management.	1 day	
2	vi) Confirm legislative and environmental requirements	2 days	
3	vii) Comment on seasonal raw water quality fluctuations and risk.	2 days	
4	viii) Comment on staffing levels and current plant classification	0.5 days	
5	ix) Obtain copies of existing allocation and comment on compliance & sufficiency.	1 day	
6	B. Future Treatment capacity assessment	7 days	
7	i) Assess the catchment demographic profile	1 day	F F
3	ii) Confirm development plans (residential and industrial)	2 days	
Э	iii) Consider raw water assumptions and quality fluctuation	1 day	
0	iv) Recommend remedial action of quality and risk factors	0.5 days	
	v) Assess the expected changes in raw water quality.	1 day	
2	vi) Assess the different changes in raw water from different sourses if applicable.	1 day	
3	vii) Assess back wash, chemical wash, sludge treatment and raw water disposal requirements	0.5 days	
4	C. Effluent sample testing	10 days	
5	In the likely event that no recent and reliable data already exists	10 days	
6	D. Problem statement	2 days	
7	Meetings with client municipality etc.	2 days	



© Ukulungisa Project Preparation Fund 2010.

Wa	Water Treatment Works Toolkit Example Gantt Chart									
ID	0	Task Name	Duration	ar '11 Apr '11 May '	'11 Jun '11	Jul '11	Aug '11	Sep '11 C)ct '11	
28	-	FEASIBILITY STAGE (CIDB 'Concept')	138 days		132223 3 12 13			5 4 11 10 25 2		
29		A. Assessment of upgrading options, recommendations and decision on preferred concept:	6 days							
30		i) Assessment of infrastructure upgrading such as modification or extensions of existing plant components	2 days							
31		ii) Assessment of upgrading of treatment processes,	2 days	5						
32		iii) Assessment of peak demand; and management issues - includes meetings / workshop with client municipality	1 day							
33		iv) Assessment and resolution of Waste Management, Water and other licensing requirements.	1 day							
34		B. Geotechnical assessment: (where extensions / new build is required)	5 days							
35		C. Geotechnical samples and tests	5 days	5						
36		D. Survey	5 days							
37	1	E. Conceptual design of preferred upgrading options	5 days							
38		i) Process modifications, new site, new process, re-cycle streams etc.	2 days	5						
39		ii) First stage sizing of new plant components incl. upgrading of mechanical and electrical infrastructure, etc.	3 days							
40		F. Logistical assessment & plan:	4 days							
41		i) logistics and plan for implementation (e.g. material suppliers, transport, road access)	1 day							
42		ii) operational logistics (e.g. long term conveyance of residue such as screening, grit and sludge etc).	1 day							
43		iii) maintenance logistics (e.g. access to M&E equipment, removal and re-instatement etc.)	2 days	s 🏅						
44		G. EPWP / local job creation:	7 days	•	-					
45		i) plan for creation of local skills development and work opportunities during construction	5 days	5	ĥ					
46	1	ii) classification of the proposed works and assessment of operator training needs	1 day		Ť					
47	1	iii) identification of formalised training needs and facilitation thereof	1 day		F					
48		H. Preliminary environmental Assessment:	1 day	/ 4						
49		Determine if a listed activity is triggered	1 day							
50		I. Community participation and consultation	60 days			<u> </u>				
51	1	J. Environmental Approvals:	120 days	•						

Water Treatment Works Upgrade Project Preparation : Illustrative Gantt Chart (Timetable)



© Ukulungisa Project Preparation Fund 2010.

Water Treatment Warks Tealkit Example Centt Chart													
ID	0	Task Name	Duration	ar '11	Apr '11	Ma	y '11 8 15 22'	Jun '11	Jul '11	Aug '11	Sep '11	Oct '1	1
52	1	i) Basic Environmental Assessment for minor works, or	20 days			<u></u>			10 10		20 4 11 10	20 2 10 1	
53		ii) Environmental Impact Assessment where required on major changes (e.g. expansions, sludge handling, const	20 wks					—					
54	1	K. Implementation Estimates & Programme:	6 days			•							
55		i) Estimates for capital costs,	2 days				۲ ۲						
56		ii) Operation and maintenance costs (10 to 15 year life span),	1 day	1			Į						
57	1	iii) Financial viability and socio economic analysis	2 days	•			۲.						
58	1	iv) Detailed programme (timetable) for implementation	1 day	7			ř						
59		L. Final report & MIG/MIS Application Form:	5 days									I	•••
60	1	Follow up on required approvals	5 days	•									

Water Treatment Works Upgrade Project Preparation : Illustrative Gantt Chart (Timetable)



© Ukulungisa Project Preparation Fund 2010.