

Annex 1: Questionnaire

1

Form ESS-WQT (2016)



CENTRAL STATISTICAL AGENCY 2015/16 ETHIOPIAN SOCIOECONOMIC SURVEY



WATER QUALITY TESTING MODULE

COVER

1	2	3	4	6	7
Region	Zone	Woreda	Geographic Status	Kebele	EA
Code	Code	Code	Code	Code	Code
8	9	10	11	12	
Household ID	Village name where the HH lives	Water ID	Household Head Name	Respondent Name	
Code		Code			

TEAM DETAILS	NAME	ID	Date		
20. Enumerator			DD	MM	YY
21. Coordinator	(Recorded by the survey solutions program)				
22. HQ review					

15. DATE: DD/MM/YY	FIRST VISIT	SECOND VISIT	Questionnaire Status (CODE)
16. TIME STARTED (hh:mm)	(Recorded by the survey solution program)		1. Complete
17. TIME ENDED (hh:mm)			2. Partially Complete
18. Questionnaire Status (CODE)			3. The respondent is not at home
			4. The respondent refused
			5. Household Not Located
			6. Household Moved Away

19. GPS COORDINATES OF THE DWELLING (UTM READING).

LATITUDE (N)					
LONGITUDE (E)					

COMMENTS DURING FIELDWORK

(In survey solutions, remarks can be entered under each individual question)
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HH INTERVIEW DAY

1	2	3	4	4b	5	6
Please provide me with a glass of water that you would give to a child to drink.	REASON WHY WATER SAMPLE NOT COLLECTED. FILL AND END SURVEY	Did you or anyone in your household do anything to this water to make it safer to drink? NOTE: REFERS TO GLASS OF WATER THEY GAVE YOU.	What did you/household member do to make this water safe for drinking?	When did you fetch this water?	What is the source of this glass of water?	Where is the source mentioned in Q5 located?
Water sample PROVIDED... 1 >>3	NO DRINKING WATER CURRENTLY IN HOUSE ...1 REFUSDE ...2 HH NOT HOME...3 HH NOT LOCATED...4 HH MOVED AWAY...5 OTHER, SPECIFY...6	Yes.... 1 No 2 >> 4b	BOIL.....1 ADD CHLORINE/ OTHER CHEMICALS...2 USE A WATER FILTER...3 SOLAR DISINFECTION...4 LET IT STAND AND SETTLE.....5 STRAIN IT THROUGH A CLOTH6 OTHER, SPECIFY.....7	TODAY1 YESTERDAY2 LESS THAN A WEEK AGO3 OVER 1 WEEK AGO 4	PIPED WATER INTO DWELLING.....1 ▶6b PIPED WATER INTO YARD/PLOT.....2 ▶6b PIPED WATER PUBLIC TAP/STANDPIPE...3 ▶6b TUBEWELL/BOREHOLE.....4 PROTECTED DUG WELL.....5 UNPROTECTED DUGWELL.....6 UNPROTECTED SPRING.....7 UNPROTECTED SPRING.....8 RAINWATER COLLECTION.....9 PIPED WATER KIOSK/RETAILER...10 ▶6b BOTTLED WATER.....11 ▶6b CART WITH SMALL TANK/DRUM.....12 ▶6b TANKER-TRUCK.....13 ▶6b SURFACE WATER (RIVER, DAM, LAKE, POND, STREAM, CANAL, IRRIGATION CHANNELS).....14 OTHER, SPECIFY.....15	IN THE DWELLING.....1 PRIVATE YARD/PLOT.....2 NEIGHBOR'S YARD/SHARED COMPOUND.....3 PUBLIC SPACE...4
Water sample NOT PROVIDED... 2						

6b	7	8a	8b	9	10	10b
Has it rained in the past TWO days?	In the past two weeks , was the water from this source not available for at least one full day?	Has there been any time in the last month when you did not have water in sufficient quantities?	What was the main reason that you did not have water in sufficient quantities?	THE HOUSEHOLD SAMPLE IS BEING TESTED ...	COLLECT DRINKING WATER SAMPLE FOR HOUSEHOLD EC TEST IF Q9=1:POUR SAMPLE DIRECTLY FROM DRINKING GLASS IF Q9=2:LABEL WHIRL-PAK WITH CODE: H+WATER ID AND THEN FILL WITH WATER	COLLECT DRINKING WATER SAMPLE E FOR HOUSEHOLD ETC TEST IF Q9=1:POUR THE SAMPLE DIRECTLY FROM DRINKING GLASS IF Q9=2:LABEL WHIRL-PAK WITH CODE: H+WATER ID AND THEN FILL WITH WATER
Yes1 No2	Yes.... 1 No 2	Yes.... 1 No 2 >>9	WATER NOT AVAILABLE FROM SOURCE1 WATER TOO EXPENSIVE2 SOURCE NOT ACCESSIBLE/TO FAR.....3 OTHER, SPECIFY ...4	NOW AT HH ...1 LATER, AT FIELD BASE (TEAM'S TEMPORARLY SITE)2	DONE..1 NOT DONE...2 >>15	DONE..1 NOT DONE...2

11	UPON CONDUCTING EC TEST: WHO CONDUCTED THIS HH TEST?	12	UPON CONDUCTING EC TEST: FOR 100 mL TEST, APPROX WHAT PORTION OF WATER WAS FILTERED?	13	UPON CONDUCTING EC TEST: REGISTER INCUBATION START TIME NOTE: TEST SHOULD BE WITHIN 30 MINUTES OF WATER SAMPLE COLLECTION	14	RECORD CHLORINE RESIDUAL RESULT (TEST ONLY IF Q5=1, 2, 3, 10) IF Q9=1: POUR SAMPLE DIRECTLY FROM DRINKING GLASS IF Q9=2: USE WATER FROM WHIRL-PAKS	15	Can you please show me the source of this glass of water , so that I can also take a water sample from there?	16	TAKE PHOTO OF THE WATER SOURCE IF SOURCE IS PRIVATE, REQUEST PERMISSION FROM OWNER	17	GPS COORDINATE OF SOURCE [ONLY IF SOURCE IS NOT IN RESPONDENT'S DWELLING OR YARD/PLOT]	18	THE SOURCE SAMPLE IS BEING TESTED ...	19	COLLECT SAMPLE FOR CENTRAL LAB TESTING WRITE ON LABEL S +WATER-ID, THEN FILL BOTTLE
	SELF ... 1 TEAM MATE... 2	ALL 1 MORE THAN HALF 2 HALF 3 LESS THAN HALF 4	HH:MM Day...1 Night...2 [Amharic time]	— . — —	COLLECT SAMPLES 1 COLLECTED WITH OTHER HH DATA 2 > 25 NOT COLLECTED 3 > 26											SCAN BARCODE	
20	COLLECT WATER SAMPLE FOR SOURCE EC TEST IF Q18=1: POUR SAMPLE DIRECTLY FROM SOURCE IF Q18=2: LABEL WHIRL-PAK WITH CODE: S +WATER ID AND THEN FILL WITH WATER BEFORE COLLECTING SOURCE SAMPLES, COORDINATE WITH TEAM TO ENSURE ONLY ONE SAMPLE PER SOURCE	21	RECORD CHLORINE RESIDUAL TEST RESULT [NOTE: CHLORINE TEST ONLY IF Q5=1, 2, 3, 10]	22	RECORD TURBIDITY TEST RESULT IF RESULT IS 'H' OR OVER 1000 THEN RECORD 999.99	23	UPON CONDUCTING EC TEST: FOR 100 mL TEST, APPROX WHAT PORTION OF WATER WAS FILTERED?	24	UPON CONDUCTING EC TEST: REGISTER INCUBATION START TIME. NOTE: EC TEST SHOULD BE WITHIN 30 MINUTES OF COLLECTION OF WATER SAMPLE ANSWER >> 27	25	ENTER THE WATER-ID UNDER WHICH SAMPLES ARE COLLECTED NOTE: S +OTHER HH WATER ID ANSWER >> 27	26	REASON WHY WATER SAMPLE NOT COLLECTED	27	CONDUCT BLANK EC TEST USING STERILE SAMPLE YOU WERE PROVIDED POUR 100 ml FROM THE STERILE SAMPLE LABEL WITH CODE: B +waterID NOTE: ONLY FOR HH SELECTED FOR BLANK TEST WHO CONDUCTED THE TEST:		
DONE...1 NOT DONE...2	0.00 - 9.99 — . — —		ALL 1 MORE THAN HALF...2 HALF3 LESS THAN HALF ...4	HH:MM Day...1 Night...2		OTHER HH WATER-ID	WATER SOURCE TOO FAR1 SOURCE LOCATION NOT KNOWN ..2 SOURCE NOT FUNCTIONAL3 UNABLE TO ACCESS SOURCE4 OTHER, SPECIFY...5	SELF ... 1 TEAM MATE... 2									

MICROBIAL RESULTS REGISTER

Following 24-48 hours of incubation the results from the water quality tests should be recorded.

1	2	3	4	5	6	7	8	9	10
HOUSEHOLD E.COLI TEST AND INCUBATION COMPLETED? [ASK IF a10a=1]	TAKE PHOTO OF TEST RESULT	Number of red/pink colonies in 1 mL sample	Number of blue colonies in 1 mL sample	Number of red/pink colonies in 100 mL sample	Number of blue colonies in 100 mL sample	HOUSEHOLD ENTEROCOCCI TEST AND INCUBATION COMPLETED? [ASK if a10b=1]	TAKE PHOTO OF TEST RESULT	Number of blue/green colonies in 1 mL sample	Number of blue/green colonies in 100 mL sample
		CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101			CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101
		COUNT 0-101	COUNT 0-101	COUNT 0-101	COUNT 0-101			COUNT 0-101	COUNT 0-101
TESTED AND HAS RESULTS...1						TESTED AND HAS RESULTS...1			
TESTED, RESULTS LOST/NOT READABLE.... 2>>7						TESTED, RESULTS LOST/NOT READABLE.... 2>>11			
NOT TESTED.... 3>>7						NOT TESTED.... 3>>11			

11	12	13	14	15	16	17	18	19	20	21	22
SOURCE WATER SAMPLE E.COLI TEST AND INCUBATION COMPLETED? [ASK IF a15=1 & a20=1 [ASK if a15=2]	TAKE PHOTO OF TEST RESULT	Number of red/pink colonies in 1 mL sample	Number of blue colonies in 1 mL sample	Number of red/pink colonies in 100 mL sample	Number of blue colonies in 100 mL sample	BLANK E.COLI TEST AND INCUBATION COMPLETED? [ASK if a27=1or2]	TAKE PHOTO OF TEST RESULT	Number of red/pink colonies in 1 mL sample	Number of blue colonies in 1 mL sample	Number of red/pink colonies in 100 mL sample	Number of blue colonies in 100 mL sample
		CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101			CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101	CONFIRM "EC" ON PLATES. IF MORE THAN 100 REGISTER 101
		COUNT 0-101	COUNT 0-101	COUNT 0-101	COUNT 0-101			COUNT 0-101	COUNT 0-101	COUNT 0-101	COUNT 0-101
TESTED AND HAS RESULTS...1						TESTED AND HAS RESULTS...1					
TESTED, RESULTS LOST/NOT READABLE.... 2>>17						TESTED, RESULTS LOST/NOT READABLE.... 2>>END					
NOT TESTED.... 3>>17						NOT TESTED.... 3>>END					