

UNHCR WASH SAFETY AND SECURITY CHECKLIST

- UNHCR and WASH actors must ensure that all WASH programmes in refugee settings have been designed to protect users from physical safety related risks.
- While undertaking the assessment it is important for the assessor to assess each piece of WASH infrastructure for potential risks from the individual perspective of each type of vulnerable user in particular women, children, infants, the elderly, and refugees with disabilities.
- Please note that the list of questions is not exhaustive and is merely intended to focus attention on potential safety and security issues related to trip, crush, pinch, pierce, cut, splinter, burn, drowning, and gender based violence. Common sense should be used at all times and if there is a safety or security issue that is not included on the sheet it should be noted in the additional comments section for corrective action.
- Following the assessment, it is essential to prioritise risks into high, medium and low and establish a clear plan of action to immediately address the most critical risks.
- This safety and security checklist and action plan should be referenced in the annex of the site's WASH strategy/plan.

UNHCR WASH SAFETY AND SEC	URITY CHECKLIST			
A. General Information				
Location: Camp	Sector	Block	Community _	
GPS Long:°'"	GPS Lat:°	· "	Site Population :	
Contact Person:	Position:		Organisation:	
Telephone: Email: _		_ Date of Ase	sessment:/	/
B. Risk of SGBV				Risk Factor
1. Lack of consultation of women w	<i>i</i> th regards to			
The design and siting of the second sec	toilets?			Υ□/Ν□
 The design and siting of I 	bathing areas?			$Y \Box / N \Box$
The design and siting of I	aundering areas?			Y D / N D
The design and siting of the design and siting of the design and siting and site and siting and siting and siting and siting and siting an	water collection points	3?		
I he design and siting or v	waste collection points	S?		
2. Lack of household or snared (on	e per 4 tamilies) tollet	. or bathing ta	acilities?	
3. Public toilet or bathing cubicle co	overage greater than o	one cubicie p	er 20 persons?	
4. Public toilet or bathing blocks are	e used by more than δ	30 persons (1	6 families)?	
5. Public toilet or bathing facilities the	urther than 50m from	users?		
6. Lack of at least two layers of priv	acy at public, shared	or household	J bathing and	Y 🗆 / N 🗆
addition to a lack of individual cu	k of privacy wail at lease bicle privacy).	ast 1.8m arou	and facility in	
7. Inadequate privacy of individual	toilet or shower cubic	les?		Υ□/Ν□
(for example – privacy exists but	material is inadequat	te or ripped)?)	
8. Inadequate or non-functional doe	or on any of the cubic'	les?		Υ□/Ν□
(inadequate door = lacking a sol	id frame, poorly fitting	, with gaps)		
 Inadequate, missing, or non-func cubicles? (inadequate = less that 	ctional cubicle locking in 100kgs static holdir	mechanism	in any of the	Υ□/Ν□
10. Lack of adequate night-time sec	urity lighting at WASH	I facilities?		Υ□/Ν□
(inadequate lighting = less than ²	100 lumens / m ² up to	3m around h	olock)	
		Tota	al score of risks	/ 10

The UN Refugee Agency

UNHCR WASH SAFETY AND SECURITY CHECKLIST

~	Disk of twin, shin, on fall when weine WACH infractionations	
С. /	Risk of trip, slip, or fall when using WASH infrastructure	. <i></i>
1.	Risk of wet or slippery surfaces at water collection, laundering, bathing, toilet, or waste disposal areas?	ΥШ/ΝЦ
2.	Risk of tripping over steps, kurbs, or raised objects when accessing WASH services or infrastructure?	Υ□/Ν□
3.	Risk of falling from elevated structures? (raised toilets, open well etc.)	Υ□/Ν□
4.	Lack of hand-rails to provide additional support when climbing steps or stairs to WASH infrastructure? (raised toilets, open well etc.)	Υ□/Ν□
5.	Lack of hand-rails to provide additional support in potentially wet or slippery areas?	Υ□/Ν□
6.	Lack of anti-slip floor surfaces in potentially wet or slippery areas?	Υ□/Ν□
7.	Solid waste pits (or latrine pits under construction) without adequate fencing or clear and visible warning tape and signs?	Υ□/Ν□
8.	Any other risks of trip, slip, or fall at the site?	Υ□/Ν□
	Total score of risks	/ 8
	Pick of out pipeb pierce cruch or colinter when using WASH infractructure	
ש. ⊿	Risk of cut, pinch, pierce, crush, or splinter when using wASH intrastructure	
1.	water collection or lifting equipment?	Y LI / N LI
2.	Risk of cut, pinch, pierce, crush, or splinter when using solid waste containers?	$Y \Box / N \Box$
3.	Risk of cut, pinch, pierce, crush, or splinter when using toilet or bathing cubicles?	Υ□/Ν□
4.	Any other risks of cut, pinch, pierce, crush, or splinter at the site?	Y 🗆 / N 🗆
	Total score of risks	/ 4
E	Pick of drowning when using WASH infrastructure	
∟.	Risk of drowning when using wASH initiastructure	
1.	Surface water collection (river, stream, lake, pond) taking place at the site?	
Ζ.	Open wells are not equipped with locked covers / metallic grills?	Y LI / N LI
3.	Open well neadwalls are lower than 70cm?	Y LI / N LI
4.	Septic tanks are not equipped with locked covers?	Y LI / N LI
5.	I ollet slab or support structure at risk of collapse?	Y LI / N LI
6.	Blocked drainage canals or risk of poorly managed drainage?	Y LI / N LI
7.	Any other risks of drowning at the site?	Y 🗆 / N 🗆
	Total score of risks	/ 7
F.	Risk of burning when using WASH infrastructure	
1	Hot water provided for bathing or laundering is greater than $50 ^{\circ}\text{C2}$	
1. 2	Burning of solid wastes taking place at the site?	
2. 2	Any other risks of hurning at the site?	
5.		
	I otal score of risks	/ 3
Sig	gnature of Inspector Community representative	
No	tes	
INU	nes	



WASH ORGANISATIONAL CAPACITY ASSESSMENT

- Capacity building of national public, private, or refugee-based WASH service providers is an
 essential element in ensuring there is a long-term durable strategy for WASH service provision in
 refugee settings. It should be carried out in parallel with activities to switch to appropriate and
 affordable low-cost WASH technologies for the setting, making WASH service provision as costeffective as possible to facilitate handover.
- Capacity building activities should focus on reinforcing technical skills, ensuring the organisation has the financial and material resources (e.g. office furniture, computers, printers, waste collection trucks, containers, water pumps etc.) to carry out effective WASH programming, in addition to reinforcing administrative systems (finance, admin, logistics). Any interventions to hand over WASH service provision should be carried out slowly and carefully with continued support and capacity building. Once WASH services are handed over, UNHCR and WASH actors should continue to work with national regulatory authorities to ensure that the quality of services is being carried out to defined standards.
- This tool has been designed to help obtain a snapshot capacity of national public, private, or refugee-based WASH service providers and understand the type of interventions that can be carried out to build capacity. Please note that the list of questions is not exhaustive and is merely intended to focus attention on areas of potential organisational capacity support. Common sense

should be used at all times and if there is a clear capacity building need that is not included on the sheet it should be noted in the additional comments section for support.

- The tool should be used to guide a conversation (approximately an hour long) with the most senior representatives of the organisation. It should be made clear that the aim of the tool is not to identify weaknesses within the organisation but to understand where the organisation can most benefit from additional support and strengthening.
- At the end of the tool, the results may be plotted on a radar plot (or simple bar chart) as follows..



Α.	TECHNICAL SERVICE DELIVERY	
1.	WASH sectoral expertise	
a.	Relevant WASH sectoral expertise and experience (water supply, excreta management, hygiene promotion, solid waste management, disease vector control) exists within the organization.	0123456
b.	The organization is able to carry out WASH related technical design, build, operate, train, transfer, and regulate related activities to national WASH quality standards.	0123456
C.	WASH expertise is distributed throughout the organisation and does not rest with one or two individuals.	0123456

2.	Geographical coverage	
a.	The WASH organisation has a programmatic presence in areas affected by displaced population or has the ability to expand WASH programming into these areas.	0123456
3.	WASH assets and resources	
a.	The WASH organisation currently has the required staffing, assets, and resources (e.g. pumps, tankers, reservoirs, surveying equipment, water quality testing equipment, tankers, drilling equipment, waste collection equipment, vector control equipment etc.) to carry out WASH program delivery to relevant standards, or has a demonstrated ability to procure these assets?	0123456
4.	Stakeholder consultation	
a.	WASH programs currently undertaken by the organization are based on real prioritized needs and are designed and implemented in association with stakeholders. Accountability mechanisms are in place and functional.	0123456
5.	Value for money	
a.	WASH programs currently undertaken by the organization are efficient, adequate, cost effective, timely, and responsive.	0123456
6.	Programmatic sustainability	
a.	The WASH programs carried out by the organization have clear exit strategies and systems of sustainable operation, maintenance and cost-recovery in the medium and long-term.	0123456
В.	GOVERNANCE	
1.	Board / advisors	
a.	The WASH organisation has a board or list of advisors composed of elected and capable members who carry out key roles such as policy formulation, fund raising, public relations, or financial oversight.	0123456
2.	Clearly defined mission and goals	
a.	The WASH organisation has clearly articulated mission/goals and clearly defined objective statements aligned with a mission	<u> </u>
3.	statement.	
	Legal status	
a.	Legal status The WASH organisation is registered according to relevant legislation.	0123456
а. 4 .	Legal status The WASH organisation is registered according to relevant legislation. Leadership	0123456
а. 4. а.	Legal status The WASH organisation is registered according to relevant legislation. Leadership Board / advisors, and senior management have a clear understanding of their respective roles and responsibilities.	0123456
a. 4. a. b.	Legal status The WASH organisation is registered according to relevant legislation. Leadership Board / advisors, and senior management have a clear understanding of their respective roles and responsibilities. Leadership style of senior management is participatory.	0123456 0123456 0123456
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2.	Planning	
a.	The WASH organisation has short, medium and long-term plans that are used and are updated regularly.	0123456
3.	Administrative procedures	
a.	Administrative procedures and manual exist.	0023456
4.	Monitoring, evaluation and reporting	
a.	The WASH program carried out by the organisation incorporates monitoring, evaluation and reporting activities	0123456
b.	Systems exist to collect, analyse and report data and information.	0123456
c.	The organisation has the ability to produce a range of appropriate reports.	0123456
D.	HUMAN RESOURCES	
1.	Human resources management	
a.	Recruitment processes are transparent and competitive.	0023456
b.	Job descriptions are documented and updated.	0123456
c.	Salaries are clearly structured and competitive.	0123456
2.	Human resources development	
a.	Job appraisals are performance based and equitable.	0123456
b.	Staff training is based on capacity, needs and strategic objectives.	0123456
3.	Human resources management	
a.	The WASH organisation has short, medium and long-term plans that are used and are updated regularly.	0123456
4.	Work organisation	
a.	Staff meetings are held regularly and team work is encouraged.	0123456
Ε.	FINANCIAL AND PROCUREMENT	
1.	Accounting	
a.	Appropriate financial procedures and reporting systems are in place. Account categories exist for separating project funds.	0123456
2.	Budgeting	
a.	Budgeting process is integrated into annual implementation plans.	0123456
b.	A financial unit responsible for the preparation, management and implementation of the annual budget exists and budgetary control is carried out on an ongoing basis.	0123456
3.	Procurement	
a.	Appropriate stock control systems exist.	0023456
b.	Appropriate procurement systems are in place.	0123456
c.	Internal and external audits are conducted on a regular basis.	0123456
d.	The organization has the ability to prepare, launch, analyse and award competitive tenders	0123456
4.	Financial reporting	
a.	Annual financial report is prepared by a registered firm of auditors.	0123456

5.	Diversification of income base	
a.	The organization has multiple funding sources.	0123456
b.	The organization has the ability to tender for contracts.	0123456
F .	EXTERNAL RELATIONS	
1.	Stakeholder relations	
a.	The organization is seen as credible by stakeholders and funders.	0123456
2.	Inter-organisation collaboration	
a.	The organisation networks and shares resources with other national WASH organisations.	0123456
3.	Government collaboration	
a.	The organisation has contacts with government policy and decision makers.	0123456
4.	Funder collaboration	
a.	The organisation has diversified contacts within the funding community.	0123456
5.	Public relations	
a.	The organisation engages in public relations. Activity information disseminated.	0123456
6.	Local resources	
a.	The organisation has relations with the private sector for technical expertise, material and/or human resources.	0123456
7.	Media	
a.	The organisation has media strategy and has attracted positive media attention.	0123456
G.	SUSTAINABILITY	
1.	Program/benefit sustainability	
a.	Programs are supported by those being served.	0123456
b.	The organisation has developed systems for continuation of its program in the medium and long-term.	0123456
c.	The organisation has developed programmatic phasing-out strategies.	0123456
2.	Organizational sustainability	
a.	The organisation has linkages with international NGOs, education institutions, government entities, research institutes, and the private sector.	0123456
3.	Financial sustainability	
a.	The organisation has the ability to access diversified resources.	0123456
b.	The organisation has a fee for services and/or other cost recovery mechanisms built into service delivery where appropriate.	0123456
C.	The organisation has a fund raising strategy.	0123456
d.	The organisation has capacity to develop proposals and respond to tenders and calls for proposals.	0123456



UNHCR field staff and their partners must ensure that a drilling log, development log, constant discharge pump test, and step drawdown pump test are completed for every borehole. Copies must be kept by the drilling agency, the WASH partner, national regulatory authorities, and UNHCR.

A) Agei	ncy inf	ormation							
Drilling	Agency	:		Drilling rig r	Drilling rig make and model:				
Drilling	Officer:			Drilling fluid	Drilling fluid used:				
Contact	details	:		Drilling bit s	sizes:				
Name o	of Geolo	ogist:		Date starte	d:				
Drilling	method	:		Date comp	leted:				
B) Bore	ehole lo	ocation							
District:				Coordinate	s:				
Sub-dis	trict:			Latitude:					
Village /	/ Camp	:		Longitude:					
Location	n:			Elevation:					
Depth (m)	Time (hh: mm)	Description (geology, colour, density, hardness, gradations, angularity, odour, fragments, lamination etc.)	Acid test (reaction to 5% HCI acid)	Conductivity (µS/cm)	Water struck (est. of yield)	Observations (bit diameter, use of mud additives, foam etc.)	Casing plan		
0m									
2m									
4m									
6m									
8m									
10m									
12m									
14m									
16M									
18111 20m									
2011 22m									
22111 24m									
24m 26m									
28m									
30m									
32m									
34m									
36m									
38m									
40m									
42m									
44m									
46m									
48m									
50m									



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C) Borehole construction details					
Borehole diameter:		mm			
Casing / screen diameter:		mm			
Screen / slot size:		mm			
Sediment formation					
Head casing length:		m			
Casing length:		m			
Screen length:		m			
Gravel pack length:		m			
Gravel pack volume		litres			
Gravel pack size:		mm			
Gravel pack type:					
Grout seal length:		m			
Total borehole depth:		m			
Hard rock formation					
Head casing length:		m			
Casing length:		m			
Screen length:		m			
Grout seal length:		m			
Total borehole depth:		m			
Yield					
Static water level:		m			
Dynamic water level:		m			
Production yield		m³/hr			
Conductivity		μS/cm			
Equipping					
Pump type:					
Pump setting depth:		m			
Centralizers		Y/N			
Rising main material					
Rising main diameter		mm			



UNHCR field staff and their partners must ensure that a drilling log, development log, constant discharge pump test, and step drawdown pump test are completed for every borehole. Copies must be kept by the drilling agency, the WASH partner, national regulatory authorities, and UNHCR.

D) Remarks

E) Sketch plan of borehole location (show any nearby buildings/features and the north direction)



UNHCR field staff and their partners must ensure that a drilling log, development log, constant discharge pump test, and step drawdown pump test are completed for every borehole. Copies must be kept by the drilling agency, the WASH partner, national regulatory authorities, and UNHCR.

F) Borehole construction sketch (show dimensions)



UNHCR field staff and their partners must ensure that a drilling log, development log, constant discharge pump test, and step drawdown pump test are completed for every borehole. Copies must be kept by the drilling agency, the WASH partner, national regulatory authorities, and UNHCR.

G) Borehole development

	Dept	h (m)	Time	Measured	Dynamic	Observations	Conductivity
	Pipe	Hose	(min.)	yield (l/s)	water level (m)	(presence of sand, clay etc.	(µS/cm)
Pumping							
Flushing							
Pumping							
Pumping							
Flushing							
Pumping							
Pumping							
Flushing							
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Pumping							
Compresso	size:			F	Remarks:		
Compresso	make:						
Compressor	model:						



H) Constant duration pumping test

Boreholes that will be equipped with handpumps need only be subjected to a constant discharge pump test for 12 hours. Production boreholes that will be motorized must be tested for 48 hours.

PUMPING				RECOVERY				
Time	Pumping time (minutes)	Water level (m)	Drawdown (m)	Discharge (l/s)	Time	Recovery time (minutes)	Water level (m)	Residual drawdown (m)
	0							
	3							
	5							
	10				,			
	15	1						
	20			I	1			
	30							
	40							
	50							
	(1H) 60							
	80							
	100							
	(2H) 120							
	140							
	160							
	(3H) 180							
	210							
	(4H) 240				ſ <u> </u> '			
	270							
	(5H) 300							
	330							
	(6H) 360							
	(7H) 420							
	(8H) 480							
	(9H) 540							
	(10H) 600				[
	(11H) 660							
	(12H) 720							
	(13H) 780							
	(14H) 840				ſ <u> </u> '			
	(16H) 960							
	(18H) 1080							
	(20H) 1200	[]			ſ'			
	(22H) 1320							
	(24H) 1440							
	(32H) 1920							
	(40H) 2400							
	(48H) 2880				,			
Dischar	rge rate (l/s):				Observa	ations:		
Duratio	n (hours):							



I) Step drawdown pumping test

Three constant discharge steps must be selected with the third step being 20% greater than the design yield. The duration of each step is 2 hours.

STEP I	n°: 1	Discha	rge rate (l/s)	:	Pumpir	ng duration :			2 hours
PUMPING					RECOVERY				
Time	Pumping time (minutes)	Water level (m)	Drawdown (m)	Discharge (l/s)	Time	Recovery time (minutes)	Wate leve (m)	er el	Residual drawdown (m)
	0								
	1								
	2								
	3								
	5								
	10								
	15								
	20								
	30								
	40								
	50								
	(1H) 60								
	80								
	100								
	(2H) 120								

STEP I	า°: 2	Discha	rge rate (l/s)	:	Pumping duration :				2 hours
PUMPING				RECOVERY					
Time	Pumping time (minutes)	Water level (m)	Drawdown (m)	Discharge (l/s)	Time	Recovery time (minutes)	Wat leve (m	er el)	Residual drawdown (m)
	0								
	1								
	2								
	3								
	5								
	10								
	15								
	20								
	30								
	40								
	50								
	(1H) 60								
	80								
	100								
	(2H) 120								



STEP n° : 3		Discharge rate (I/s) :			Pumping duration :			2 hours	
		PUMPING			RECOVERY				
Time	Pumping time (minutes)	Water level (m)	Drawdown (m)	Discharge (l/s)	Time	Recovery time (minutes)	Wate leve (m)	er Residu el drawdo) (m)	ual own
	0								
	1								
	2								
	3								
	5								
	10								
	15								
	20								
	30								
	40								
	50								
	(1H) 60								
	80								
	100								
	(2H) 120								

Observations:



UNHCR field staff and their partners must ensure that a drilling log, development log, constant discharge pump test, and step drawdown pump test are completed for every borehole. Copies must be kept by the drilling agency, the WASH partner, national regulatory authorities, and UNHCR.

J) Hydrogeologist's report (include graphs of constant discharge and step drawdown tests)



TOILET INFRASTRUCTURE ASSESSMENT FORM

COMMUNAL TRENCH LATRINE				
A. General Information				
Location: Camp	Sector	Block	Community	
GPS Long:°'	GPS Lat:°	"	Number of toilet cu	ubicles:
Contact person:	_ Position:		Date of visit:/	/
	10			
1. Are the pit walls visibly cracked / bro	oken / leaking / flood	ed?		
2. Is the toilet pit full? (less than 0.5m	remaining space in the	ne pit)?	facilities)?	$Y \square / N \square$
 Is there any evidence of fly infestation 	on?		Tacinities) !	
(presence of one or more flies in the	e cubicle during the a	ssessment perio	od)?	
 Is there evidence of open defecation 	n anywhere around t	ne toilet block?		Y D / N D
7. Is there a lack of a privacy screen a 8. Is there a lack of privacy inside any	round the toilet block of the toilet cubicles	?		
(for example - is any of the plastic s	heeting missing or ri	oped)?		,
 9. Are any of the toilet cubicles missing 10. Is there a lack of adequate night-time 	g a functional securit ne security lighting wi	y lock? thin 3m of the toi	ilet block?	
(adequate lighting = at least 100 lun	nens / m^2)			,
(functional = soap + handwashing w	wasning station withi /ater + drainage)	n 10m of the toile	917	Υ Ц / N Ц
12. Is there a lack of handrails for vulne	rable groups (elderly	/ infirm / disable	d / children)?	Y D / N D
		Tota	i score of risks	/ 12
Signature of Inspector	Co	ommunity repres	sentative	

Note: Risk score: 9-12 = very high, 6-8 = high, 3-5 = intermediate, 0-2 = low



EXCRETA MANAGEMENT INFRASTRUCTURE ASSESSMENT TOOL

- This assessment tool has been designed to assist UNHCR field staff and their partners collect data on excreta management during a needs assessment. The main purpose of this tool is to identify problems related to excreta management and identify actions to bring conditions to UNHCR standards.
- This tool attempts to capture most of the common problems encountered with excreta management, however the user should apply common sense and document any additional problems that may not be covered.
- It is good practice to discuss the results of this assessment with members of the displaced community before departing. Matters of extreme urgency should be addressed immediately.

EXCRETA MANAGEMENT INFRASTRUCTURE ASSESSMENT TOOL				
Assessor(s): (Contact details: Date of assessment :///////			
Site information Site location (District, Town, Village etc.): GPS Long:°' GPS Lat: _ □ Planned camp □ Unplanned camp □ Urban coll □ Rented accommodation □ Public buildings □ Ot Contact person: Position	Number of men:			
Toilet coverage information □ Number of cubicles □ Total daily users □ Estimated % of population defecating in the open	Coverage rate(persons/toilet)			
Privacy structure type □ Wood frame / plastic sheeting □ Wood frame / co □ Concrete Block □ Brick □ Cement □ Wood	orrugated iron sheeting D Wood frame / grass covering Other (<i>tick all that apply</i>)			
Toilet type Plastic squatting slab Wooden squatting slab Concrete sanplat Ceramic pour flush slab Non-reinforced dome concrete slab Urine diverting toilet Ceramic cistern flush toilet Bucket latrine Non-flush pedestal type toilet Oil drum latrine Storage tank latrine Plastic bag latrine Portable toilet Trench latrine Defecation field Other				
Privacy structure / toilet problems Broken privacy structure? Lack of or Toilet block unsanitary (faeces visible on toilet surface, or inside facilities)? Lack of or Toilet block flooded? Lack of or Insufficient number of toilets? Insufficien Lack of privacy screen around toilet block? Evidence Lack of privacy inside toilet Inadequation Lack of security (lack of functional lock or lighting)? Inapproprint	ledicated cleaning nt (buckets / mops, detergent etc.)? <pre>Fly infestation (flies observed during assessment period)?</pre> ledicated cleaning t? Difficult access / usage for vulnerable groups (elderly / infirm / disabled / children)? nt water for adequate n or anal-cleansing? Lack of personal protective equipment for cleaners (gloves, aprons, overalls, boots)? ate cleaning (< four lay or strong smell of or urine)? <pre>Lack of functional hand-washing station within 5m / 15ft of toilet?</pre> riate design? <pre>Lack of personal protective equipment for cleaners (gloves, aprons, overalls, boots)?</pre>			
Collection / storage system □ Offset pit □ Double pit □ Raised pit □ Dehydrating vault □ Composting vault □ Septic tank □ Sewage holding tank □ Transfer station □ Biogas vault □ Other				
Toilet capacity information □ Vault / pit capacity(m ³) □ Used volume(%)				
Excreta collection / storage problems Excreta containment structure inadequately covered or sealed? Containment structure < 1.5m / 5ft of groundwater table?	ment structure <30m			

Excreta handling / desludging operations				
Excreta desludging device specifications				
Excreta handling / desludging problems Excreta leakage? Desludging equipment or vehicles inadequately cleaned or and personnel? Lack of personal equipment for de lack of on-site stander Visible traces of excreta on equipment during transportation or storage? Inadequate disposal of desludging cleaning water? Inadequate disposal of desludging cleaning water?	protective esludging staff? howers for			
Excreta transportation information I Sludge tankers I Sludge carts I Sludge tankers I Sludge carts I Solution				
Excreta transportation problems Image: Secreta transportation tank Image: Secreta tank Image: Secret	ies observed ent period)? capacity?			
Presence and use of sewers □ Conventional sewer □ Simplified sewer □ Interceptor sewer □ Vacuum sewer □ Other □ Sewer pipe material □ Sewer lengths(m) □ Sewer diameters(mm)				
Sewer related problems Sewer pipes or inspection Sewer pipes exposed or buried Fly infestation (o observed on inspection (o observed on inspection chambers or rodding eyes inadequately sealed? Insufficient retention times? Inspection chambers or rodding eyes inadequately sealed? Image: Construction (chambers or rodding eyes inadequately sealed)	ne or more flies pection)?			
Excreta treatment practice Off site sewage treatment works Waste stabilization ponds Anaerobic digester Constructed wetlands / reed beds Septic tank Trickling filter Activated sludge Thickening ponds Drying beds Composting Other (tick all that apply) Width (m) Height (m) Volume (m ³) Flow rate (I/s)				
Excreta treatment related problems Excreta containment structures Inadequate protection from Lack of personal cracked, broken, overflowing, surface water? equipment for word leaking, flooded, inadequately Poor maintenance schedule /	protective orkers?			
Excreta final disposal practice □ Fill And Cover □ Leach Field □ Other (tick all that apply)				
Excreta final disposal problems Untreated disposal of excreta into water bodies? Fly infestation (flies observed during the assessment period)? Lack of personal equipment? Excreta disposal location less than 1.5m / 5ft above groundwater level? Application of untreated excreta to directly to land, or inadequate soil cover depth?	protective			
Toilet programme operation and maintenance information No. of toilet attendants No. of maintenance crew Cleaning stocks (weeks) # Shovels # Wheelbarrows # Buckets # Brushes # Mops # Backpack sprayers # Overalls # Thick soled boots # Thick gloves # Aprons # Eye protection # Masks # Chlorine(kg) Detergent(l)				
Operation and maintenance related problems Insufficient cleaning and maintenance staff? Poor routine cleaning and maintenance schedule? Lack of consuma Lack of on-site staft Staff insufficiently trained? Lack of personal protective equipment? sanitation worker	ables? howers for rs?			

































PROJECT Project Name, Country SCALE 1:30

DATE PUBLISHED 02/02/14



General Layout PROJECT Project Name, Country B. Harvey - 11/12/13 APPROVED BY D. Porteaud - 15/01/14 SCALE 1:30

SHEET 2 of 4 DATE PUBLISHED 02/02/14





PROJECT Project Name, Country D. Porteaud - 15/01/14 SCALE 1:30

3 of 5 DATE PUBLISHED 02/02/14



Assembly Front



Plan View





TITLE **Communal Trench Latrine** General Layout **PROJECT** Project Name, Country DRAWN BYUNITSB. Harvey - 11/12/13metresAPPROVED BYSHEETD. Porteaud - 15/01/144 of 5SCALEDATE P1:3002/02/

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A.05

TITLE Communal Trench Latrine

General Layout

Project Name, Country

PROJECT

DRAWN BYUNITSB. Harvey - 11/12/13metresAPPROVED BYSHEETD. Porteaud - 15/01/145 of 5SCALEDATE P1:3002/02/

UNITS metres SHEET 5 of 5 DATE PUBLISHED 02/02/14





HOUSEHOLD LATRINE DIGGING PROGRAMME KIT

Description:

This kit is intended to provide tools to support a household pit latrine programme at the block level (1 block = 16 communities = 256 households = 1,250 persons).

Dimensions:

Gross weight:	632 kg
Volume:	2.9 m ³
Length, width, height:	367 × 76 × 74 cm
Approximate unit cost:	USD\$ 1,982



Item:	Qty:	Specification:
1.	32	Pointed trenching shovels with handles, pressed from high steel, fitted with graded wooden shaft. Stock polished for comfort in use. Weatherproofed handle. Size no. 2. Round mouth with T-type hilt, shovel size. 28" shaft × 12 × 9.1/2" blade.
2.	32	Flat trenching spades with handles, pressed from high quality steel, fitted with 28" graded wooden shaft and PY-type hilt. Socket polished for comfort in use. Weatherproofed handle. Blade type: square mouth. Blade size: 12" × 10", size no. 2
3.	32	Pickaxes (chisel and point) with handles. 3.2 kg pick axe head. Eye size 70 × 50 mm. Will accept standard pick axe shafts. Weight 3.2 kg. Hardwood pick/mattock shaft, 900 mm, sanded and waxed. For pick axes and mattocks with eye size 78 × 54 mm.
4.	32	13.5 litre buckets (galvanised)
5.	16	Roll of site marking tape, red/white (100m)
6.	16	Contractors' rakes with handles, 12-tooth head with epoxy-coated finish. Head securely fixed to tubular steel handle. With black plastic hand grip with hang hole. Blade width 280 mm.
7.	16	Miners' bars, one end chisel, one end point, 3 cm dia., length 1.5 m
8.	16	Cold chisels, length 225 mm, blade width 75 mm
9.	16	4 lb lump hammers, forged head from fine high carbon, correctly hardened and tempered. Shaft from first-quality straight-grained hickory. Weight 1.8 kg (4 lb).
10.	16	Measuring tape, length 30 m, width 13 mm
11.	16	8 mm polypropylene rope, 30 m coils

Technical Considerations:

- □ If this kit is used to set up a household pit latrine programme it is recommended that it is procured in conjunction with the household concrete latrine slab mould kit.
- □ Pits should be as deep as possible (up to 2.5 m) but never so deep as to risk pit collapse and injury to personnel. Round pits are more stable than square or oblong pits, so round pit digging should be encouraged.
- □ This kit can also be used to provide tools to set up defecation zones, trench latrines, or VIP latrines in which case it is recommended that the kit is procured in conjunction with the self-supporting plastic squatting plate kit.



EXCRETA MANAGEMENT KEY INFORMANT / FOCUS GROUP PRIMER QUESTIONS

- This assessment tool has been designed to assist UNHCR field staff and their partners collect data on excreta management. The aim of the tool is to help collect background information on excreta management issues that may not be obvious from direct observation, in particular any underlying non-technical causes.
- If the questions are used during key informant interviews, try to interview a number of key different individuals (community leaders, teachers, religious leaders, medical staff, women, men and any other knowledgeable individuals) and triangulate responses.
- If the questions are used during focus groups, try to keep the group as small as possible (max 8 persons) of the same sex, age and social standing. Try to triangulate response between different focus groups.
- The list of questions is not exhaustive and is merely intended as a conversation primer.
- The questions have been designed as an aide memoire so try not to simply read the questions directly off the list. Instead use the themes as conversation starters.
- Additional questions should be formulated based on the replies received and the emergency context.
- Try to keep questions as open-ended as possible. Ask staff for their opinions. Keep asking 'why?'.
- Try to avoid overburdening respondents concentrate on factors that pose the greatest health risk first.
- It is often better to carry out interviews after any infrastructure assessments and observation walks have been completed so the questions can be directly related to what has been observed.

UNHCR PRIMER QUESTIONS - EXCRETA MANAGEMENT IN DISPLACED SETTINGS

General background information and population numbers.

- □ How many displaced women, men, children and families are present?
- Have you seen the number increase as a result of the emergency or do you expect it to increase?

General perceptions of excreta management in the displaced population

- □ Are there any existing toilet facilities?
- □ If so are they used? Are they sufficient? Is there sufficient space for toilets?
- Are they being operated successfully? Can they be adapted, improved or extended?
- Do you like the design of the toilets? Is it culturally acceptable? Comfortable? Safe to use?
- □ What designs are the displaced population familiar with back home?
- Are people familiar with the design and construction of toilets?
- □ What local materials are available for constructing toilets?
- □ Is there any existing toilet infrastructure nearby (e.g. sewer networks or treatment facilities)?
- How many communal toilet facilities exist and how many households have their own toilets?
- □ If open defecation is practiced, is there a designated area?
- □ Are there any threats from defecation to water supplies or living areas?
- □ Would the community be willing to move directly to shared toilets or are communal facilities preferred?
- □ Is there permission from the land owner to construct toilets?
- □ Where in the displaced community are the biggest sanitation related hazards in the community?
- □ What do you feel are the solutions?

Discussion concerning protection of users at toilet facilities.

- Do users feel safe using the toilet facilities during the day? How about at night time?
- Have there been any security problems related to use of the toilet facilities?
- □ Is there sufficient privacy? Do the locks on the doors function adequately?
- □ Is there sufficient night time lighting? Would the use of night-time community patrols be beneficial?
- □ What do you think can be done to improve the security of toilet facility users?

Perceptions concerning water availability for toilet facilities.

- □ What is the practice for anal cleansing? Is water preferred?
- □ How much water is needed for toilet flushing, handwashing and cleaning of toilet facilities?
- □ How much water is available for toilet flushing, handwashing and cleaning of toilet facilities?
- □ What do you feel could be done to increase the availability of water?
- □ What are the main sources of water for toilet facilities?
- □ How far are these water sources? What recommendations do you have to improve the situation?

Discussion concerning geographical conditions

- □ What is the level of the groundwater table?
- □ What is the soil like? Is the ground hard and difficult to dig?
- □ Is there sufficient soil infiltration capacity? Is there sufficient soil bearing capacity?
- Does the soil have a high sand content? Is there a risk of pit collapse?
- □ When does the winter season start and end? Are temperatures below zero?
- □ What excreta management difficulties are encountered during the winter season?
- □ What solutions do you propose for the winter season?

Discussion concerning operation and maintenance.

- Are there any toilet facilities with problems (e.g. full, leaking, fly infestation, cleanliness)?
- □ Who is responsible for cleaning the toilets and how often are they cleaned?
- □ Whose responsibility is it to get the system working when it breaks down?
- Do you feel there are enough staff to operate and maintain the toilet systems?
- Do you feel they have sufficient tools, materials, and training?

Discussion concerning public health hazards from toilet facilities.

- □ Where along the sanitation chain do you feel are the biggest public health hazards?
- □ Is any part of the system leaking or open to the exterior?
- Are there any high risk activities such as excreta conveyance, handling, tankering, lagooning?
- □ Where is the excreta finally disposed?

Discussion concerning universal access, disabled users, and child friendly designs

- Do you think the toilet design is generally acceptable to children, the elderly, the infirm, disabled users?
- Do you have any suggestions for improving the design?

Discussion concerning handwashing.

- How is water stored for handwashing and cleaning of toilet facilities?
- Do you feel there is enough water storage? Does water ever run out?
- □ Are there handwashing points in every toilet block?
- Do you feel that generally there are enough handwashing points?
- Do any of the handwashing points have problems (e.g. low flowrates, blockages, lack of soap)?
- □ Can you suggest any ways that handwashing operation and maintenance can be improved?

Discussion concerning the management of children's faeces.

- □ How and where are children's faeces disposed?
- Does the population require potty, trowels or chamber pots?

Discussion concerning surface water management.

- □ When it rains, are there any problems with surface water intrusion around toilet facilities?
- Do you have any suggestions for improving surface water management?

Discussion concerning disease vectors.

Do you have any problems with the presence of disease vectors in and around the toilets (such as vermin, bats, birds, mosquitoes, ants, cats, dogs)?

Use this section for any notes or recommendations



SAMPLE COMMUNITY AGREEMENT

UNHCR COMMUNITY AGREEMENT – COMMUNAL TOILET FACILITIES						
- COMMUNITY AGREEMENT -						
	BETWEEN					
	, BLOCK	, SECTOR	, CAMP			
		AND				
(Implementi	ng partner of the	United Nations Ref	ugee Agency)			
The community within camp non-governmental organisation (UNHCR) organisation" - have agreed on	residi , he implementing the following artic	ng in block reinafter referred to partner of the Uni , herein cles	, and sector as "the community" – and the ted Nations Refugee Agency nafter referred to as "the			
1. Whereas both the commun well managed toilet facilities	ity and the organ with accompanyi	nisation recognises tl ng hygiene promotior	ne public health importance of interventions.			
2. Whereas the organisation governmental organisation (is a non-politica NGO), which end	al, non-religious and eavours to bring hum	non-profit humanitarian non- anitarian assistance.			
 Whereas the organisation h owners and relevant national 	as previously ob I authorities to ca	tained all the necess rry out the activities d	ary agreements from the land escribed below;			
CONTRIBUTIONS AND RESP	ONSIBILITIES					
The contribution and responsib	ilities of the orgar	isation and the comm	nunity are as follows:			
Contributions and responsib	ilities of the com	imunity:				
 To hold a meeting with all r vs. shared vs. communal face 	nembers of the c ilities in addition	community to discuss to any cultural design	the acceptability of household requirements.			
If the community decides the must reach a decision on the	nat household ar e following:	nd shared toilets are	unacceptable, the community			
 A) Identification for suitable locations for communal facilities that poses the minimum security risk for all users in particular women and girls. B) Identification of a focal person living within 50m of the communal toilet facilities with the following responsibilities: a. Cleaning of the toilet facilities with detergent and 0.2% chlorine solution (during times of risk of epidemics) at least four times a day. b. Ensuring that handwashing facilities are continuously topped up with soap and water and that waste water is safely removed. c. Ensuring toilet flushing or anal cleansing water is available (if required). d. Undertaking small-scale minor repairs as required. e. Informing the organisation at least seven (7) days in advance of the need for major repairs or desludging activities. 						
Contributions and responsib	lities of the orga	anisation:				
 To ensure the community facilities to ensure that de comfortable, transparently m 	is empowered t signs are to the anaged, and safe	o make their own d e greatest degree p e to use.	lecisions concerning the toilet ossible, culturally appropriate,			

- 2. To provide materials for the construction of _____ household toilet cubicles, _____ shared toilet cubicles, and _____ communal toilet cubicles, fabricated from _____ materials, equipped with _____ hand washing units, and _____ accessories.
- 3. To provide routine maintenance and desludging services for communal toilet facilities as required.
- 4. To provide _____ mops, _____ buckets, _____ brushes, _____ wheelbarrows, _____ jerry cans, _____ shovels, _____ handwashing dispensers with drainage, _____ pairs of gloves, _____ backpack sprayers, _____ pairs of boots and _____ overalls to support the daily cleaning and maintenance of the communal toilet facilities.
- 5. To provide a monthly provision of _____ bars of soap, ____ litres of chlorine, ____ litres of detergent, and _____ rolls of toilet paper to support the daily use of the communal toilet facilities.
- 6. To provide a system of security lighting, door locks, and privacy screen for the communal toilet facilities and _____ padlocks for shared and household toilets.
- 7. To support and train a communal toilet attendant identified by the community.
- 8. To support the community through a programme of hygiene promotion in particular the linkages between excreta and disease.
- 9. To keep the community and national authorities informed about the implementation progress of the programme.

MISCELLANEOUS

- This Community Agreement is the unique basis of collaboration between the community and the organisation. All amendments, alterations and termination need to be elaborated in writing and duly signed and agreed by both parties. The community agreement is made in the following languages ______and _____.
- 2. In case a dispute related to operational or administrative issues for the activities envisaged under terms of this Community Agreement arises between the community and the organisation, the resolution of such kind of difficulties shall be negotiated through open discussion and in good faith in order to find mutually agreeable solutions before having an impact on the programme beneficiaries.

This Community Agreement is entered into effect on the following date:		
The community representent is chered into encot on the following date.	///////	

Signed on behalf of the community...

Representative 1:		-
Representative 2:		-
Representative 3:		-
Signed on behalf of the o	janisation	
Name:	Title:	

The sample should be used as a guide only. It can and should be adapted to meet locally specific conditions.



SOLID WASTE KEY INFORMANT INTERVIEW PRIMER

- □ These key informant primer questions have been compiled as an aide memoire to help collect information related to solid waste management practices in particular:
 - *i).* What key informants from the displaced population feel are the key problems related to solid waste management including their underlying causes?
 - ii). What key informants from the displaced population feel are the solutions?
- □ In order to obtain a complete picture, interview a number of key informants (e.g. Community Leaders, Teachers, Medical Staff, and Religious Leaders) and triangulate responses.
- □ Note that the questions are intended merely as a conversation primer and are not exhaustive.
- □ Additional questions should be formulated based on the replies received and the context.
- □ Try not to simply read the questions directly, instead use the questions as reminders.
- □ There is no need to ask all questions, choose only the themes that are relevant to the context.
- Try to keep questions as open as possible. Ask the key informants for their personal opinions?
- □ Try not to overburden respondents concentrate on the factors that pose the greatest risk first.

A. General Information				
Name of displaced setting:	Population Size:			
Key informant undertaken by: Organisation:				
Date:// Email:	Contact Phone:			
B. Key Informant Information				
Name of key informant:				
Title of key informant:				
Address of key informant:				
Email: Co	ontact Phone:			
C. Key Informant Primer Questions				
 C. Key Informant Primer Questions Current practice related to solid waste management How is solid waste currently managed? Are there designated waste collection points? How frequently is waste collected? Are wastes handled or transferred manually in any way during collection and disposal? Where is waste taken and how is it disposed? Are there any locations with uncontrolled dumping of wastes? Are there any problems of festering wastes? How can this be prevented? Is the waste service accessible to children, the elderly, the infirm, or disabled users? What are current solid waste management related beliefs and practices? How did people manage solid waste in their place of origin? Is there evidence of any open burning of wastes? How can this be prevented? General perceptions of solid waste management related public health risks What do you feel are the biggest challenges in ensuring that the community is free from waste? What do you feel are the biggest hazards related to solid waste? Are current waste management practices a threat to water supplies or living areas? Where in the displaced setting are the biggest hazards located? 				
Estimation of waste types and volumes ☐ What types and volumes of wastes are being produced ○ Paper and cardboard ○ Plastics and rubber ○ Metals and Glass ○ Organic wastes ○ Market, slaughter and animal wastes □ What are the most optimal systems for collection, and r	each day?			

Capacity assessment of local solid waste service providers

- □ Who is responsible for waste collection and disposal within the displaced or host population?
- □ Can the organizations responsible for waste management cope?
- □ What resources (excavators / trucks / staff) do they have?
- Do you have any suggestions for improving the waste management services provided?

Existing resources for waste management

- □ What resources are available locally for waste management (excavators / trucks / staff)?
- □ Are there existing landfill sites? Who owns the site? Is there a tipping fee? Is the site operating successfully? Can they be improved, extended or adapted?
- □ Is there sufficient space for a new landfill? What is the slope of the terrain? What is the level of the groundwater table? Are geological conditions suitable for landfill?

Reduction, recycling, reuse and composting

□ What activities are being undertaken to reduce, recycle or reuse solid wastes? Are there any recycling companies? Is composting of organic wastes being undertaken?

Waste collection from public spaces

- □ Who is responsible for cleaning public spaces and how often are they cleaned?
- Do you feel there are enough street cleaners considering the size of the displaced setting?
- Do you feel the waste collection staff have the correct tools, cleaning equipment, and personal protective equipment?

Hazardous wastes

- □ How are the following hazardous wastes managed? Where are these wastes created or situated?
 - Used batteries
 - o Used engine oils
 - Paints, solvents, and varnishes
 - o Broken electrical equipment
 - Medical waste sharps
 - o Medical waste infectious
 - Medical waste non-sharp, non-infectious

Market waste management

- □ What sorts of wastes are created in market areas?
- □ Who is responsible for wastes from market areas and how often are they managed?
- How can waste management in market places be improved?

Medical waste management

- □ How are sharps, infectious waste, and non-sharp non-infectious waste managed?
- Do you feel there are enough appropriate waste collection containers?
- Do you feel health-care wastes are adequately separated and managed?
- Do you have any suggestions for improving current practices?
- □ How is the health-care waste transported within the facility?
- □ Is health-care waste stored anywhere while it waits for treatment, collection or final disposal?
- □ What do you feel could be done to improve the transport or storage of wastes?
- Do you have any suggestions for improving how health-care waste is treated or disposed?

Disease vector control

- □ Is solid waste creating problems with disease vectors (such as vermin, bats, birds, mosquitoes, flies, ants, cats, or dogs)?
- □ Are landfills covered daily with at least 20cm soil cover?
- □ Is solid waste creating problems of stagnant water, or, blocked ditches?
- Do you have any suggestions how vector populations can be reduced?

Leachate management

- □ Are there any problems of leachates from waste dumps or landfills contaminating local water supplies or the local environment?
- □ Are groundwater supplies effectively protected from waste dumps
- □ When it rains, are landfills protected from surface waters with diversion canals?

Solid waste legislative environment

□ What national or local legislation exists for waste management and environmental protection?



SOLID WASTE ASSESSMENT TEMPLATE

UNHCR field staff and their partners must conduct a waste survey within the first three months and then at least once a year. Activities must be revaluated and reorganised according to the findings of the survey (see Section 7.26).

A. General Information Name of displaced setting: Waste survey undertaken by: Contact Phone:				
B. Displaced setting waste creation r	ates	Waste survey	date	<u></u>
Waste constituent	(tons/week)	(kg/pers/week)	%	(kg/m ³)
1. Paper / cardboard				
2. Glass				
3. Metals				
4. Plastic				
5. Rubber				
6. Misc. combustible				
7. Misc. incombustible				
8. Organic matter > 50mm				
9. Organic matter 10–50mm				
10. Organic matter <10mm				
11. Lead-acid batteries				
12. Household batteries				
13. Used engine oils				
14. Paints, solvents, & varnishes				
15. Broken electrical apparatus				
16. Other toxic wastes				
17.				
18.				
TOTALS			100%	

TYPE OF WASTE:			Kgs per week		
a) Description of current practice for this waste type □ Reduce □ Reuse □ Recycle □ Recover □ Uncontrolled dumping □ Controlled dumping □ Sanitary landfill □ Other					
<i>b) Description of medium te</i> □ Reduce □ Reuse □ Recyc □ Controlled dumping □ San	<i>b) Description of medium term strategy (< 6 months)</i> □ Reduce □ Reuse □ Recycle □ Recover □ Uncontrolled dumping □ Controlled dumping □ Sanitary landfill □ Other				
<i>c) Description of longer terr</i> □ Reduce □ Reuse □ Recyc □ Controlled dumping □ San	n strategy (> 6 months) le □ Recover □ Uncontrollec tary landfill □ Other	d dumping			
PUBLIC HEALTH AND EN	VIONMENTAL HAZARD	ASSESSI	MENT		
Summarize the waste managem Note the top three hazards for e or insignificant consequences.	nent chain from point of creation ach step. Do not include hazard	n to point o ds that are	f final disposal or reuse. unlikely or that have minor		
Waste Management Chain	Current / Potential Hazards	Level	Control Measures		
↓	1 [2 [3 [∃High □N]High □N]High □N	Ned 1 Ned 2 Ned 3		
	1 [2 [3 [∃High □N ∃High □N]High □N	Ned 1 Ned 2 Ned 3		
	1 [2 [3 [∃High □N ∃High □N]High □N	Ned 1 Ned 2 Ned 3		
	1 [2 [3 [∃High □N ∃High □N]High □N	Ned 1 Ned 2 Ned 3		



SOLID WASTE INFRASTRUCTURE ASSESSMENT FORMS

LANDFILL SANITARY SURVEY FORM	1								
A. General Information									
Location: Camp	Sector		Community						
GPS Long:°'	GPS Lat:°	"	" Number of toilet cubicles:						
Contact person:	Position:	C	Date of visit:/	/					
Cell perimeter bund Stockpile of cover material Moveable electric fence for controlling goats									
Prevailing Moveable office	e site First cell		RATES						
Entrance	TH ONE TH	LOW	101 10 GA	→					
PROVIS	E DOT OR Cell	ln di	iitial working area [see iagram (b) below]	a					
TO BE REFERENCE RISK	FAC	G	agram (b) below]						
EACH OF THE Wire mesh fence for trapping litter									
	чши	· · · · · · · · · · · · · · · · · · ·							
	~0		=						
Moveable barrier Stockpiled soil from excavation Stockpiled so									
B. Identification of risk factors				Risk					
 Is there evidence of uncontrolled du 	l area?	Y D / N D							
2. Are there any natural water bodies of	of the landfill?	Y 🗆 / N 🗖							
3. Are there any residential houses or a		$Y \square / N \square$							
 Is there a lack of a surface water div 									
6. Is the landfill missing an impermeab	leaching of wastes	Y D / N D							
into groundwater supplies?									
7. Is the landfill cell visibly cracked / broken / leaking / flooded in any way? Y									
9 Is there any evidence of fly infestation	e or more flies)?	УП/NП							
10. Are hazardous wastes allowed to er	Y D / N D								
broken electrical equipment, medical wastes)?									
11. Is there evidence of any open burnin	$Y \square / N \square$								
12. Are wastes nandled of transferred in 13. Do waste collection staff lack basic									
14. Is the landfill full? (less than 0.5m re									
15. Is there a lack of a functional hand-washing station and shower at the landfill site? $Y \Box /$									
(tunctional = soap + water + drainag	e)	Тс	otal score of risks	/ 15					
				· · ·					
Signature of Inspector Community representative									

Note: Risk score: 10-15 = very high, 6-9 = high, 3-5 = intermediate, 0-2 = low

WHO MONITORS?	NGO / Camp Committee										
WHO PAYS?	NGO										
APPROX. COST? (USD\$)	300 USD\$										
UNSKILLED LABOR REQUIRED? (man-days)	7 man-days										
SKILLED LABOR REQUIRED? (man-days)	1 man-day										
MATERIALS / CONSUMMABLES REQUIRED? (e.g. cement, pipes, soap, chlorine)	Metallic containers, information boards, fence posts, gates, nails, hinges, barbed wire										
TOOLS / EQUIPMENT REQUIRED? (e.g. spades, wheelbarrows)	Spade, pick, wheelbarrow, hammer, spirit level, measuring tape										
BY WHEN?	End of week										
BY WHOM?	Camp Committee										
WHAT? (List of priority activities)	e.g. Establishment of 5 hazardous domestic waste collection points	1.	2.	3.	4.	5.	.9	7.	8.	6	10.

SOLID WASTE ACTION PLAN











