

Environmental Assessment of Ogoniland Site Specific Fact Sheets

GUILEEH- KOROKORO



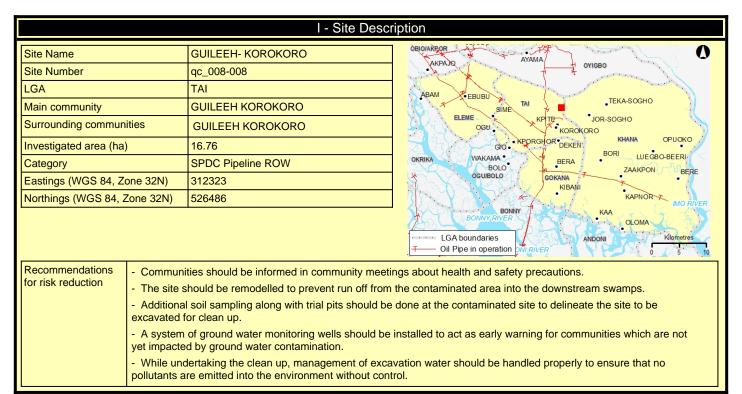
This fact sheet is part of a series prepared as part of the Environmental Assessment of Ogoniland by the United Nations Environment Programme (UNEP). It provides the observations and results from one of the individual sites studied in detail, plus the specific risk reduction measures for follow-up action.

This fact sheet should be read in conjunction with the main assessment report available at: www.unep.org/nigeria.



Site fact sheet

See Guide to content and terminology on last page.



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		_			
II - Oilfield Infrastructure Type					
Wells	No				
Flowstations	No				
Manifolds	No				
Flaresites	No				
Oil pipeline in operation	No				
NNPC crude line	No				
NNPC product line	No				
	III - Spill History				
Spills reported by SPDC	No				
Spill reported by community	Yes				
	IV - Data Screenir	ng			
Assessment criteria					
Soil contamination Nigerian standards EGASPIN (intervention value 5000 mg/kg; target value 50 mg/kg)					
Groundwater contamination	Nigerian standards EGASPIN (intervention value 600 µg/l; target value 50 µg/l)				
Sediment contamination	Nigerian standards EGASPIN (intervention value 5000 mg/kg; target value 50 mg/kg)				
Drinking water contamination	WHO guidelines (benzene: 10 μg/l)				
	Nigerian drinking water standards (mineral oils:	3 µg/l)			
Number of soil samples		45			
Deepest investigation (m)		5			
Maximum soil TPH (mg/kg)		567.000			
Number of soil measurements greater than EGASPIN intervention value		0			
Deepest sample greater than EGASPIN (m)		0			
Number of soil measurements below 1m		33			
Number of soil measurements bel	ow 1m greater than EGASPIN intervention value	0			
Number of ground water samples		4			
Maximum groundwater TPH (µg/l)		10			
Number of groundwater measurements greater than EGASPIN intervention value		0			
Number of community well samples		0			
number of community well sample					
Presence of hydrocarbons in com		Not applicable			

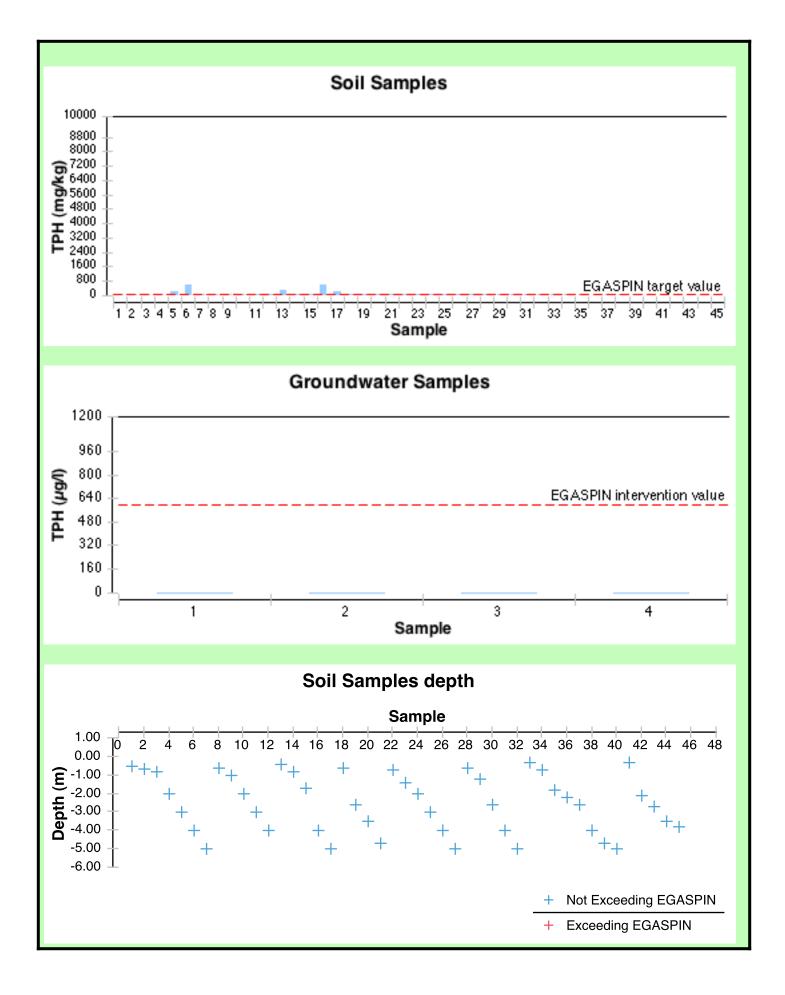
Not applicable

Not applicable

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Maximum CL sediment TPH (mg/kg)

Number of CL sediment measurements greater than EGASPIN intervention value Presence of hydrocarbons in sediment above EGASPIN intervention value



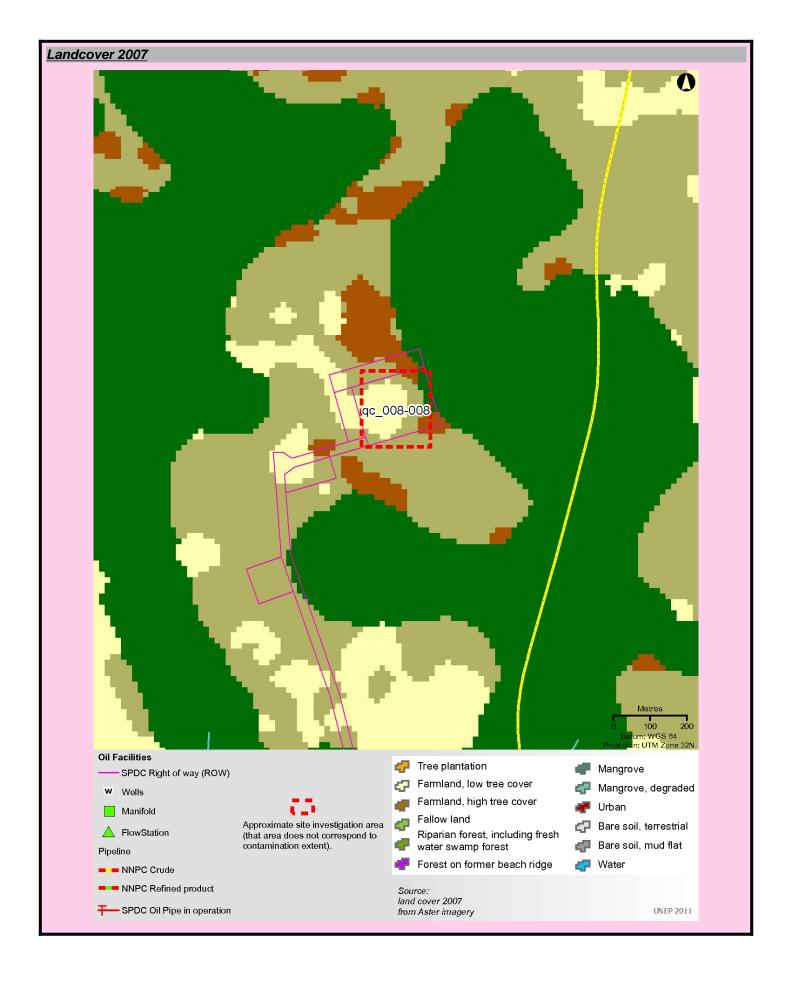
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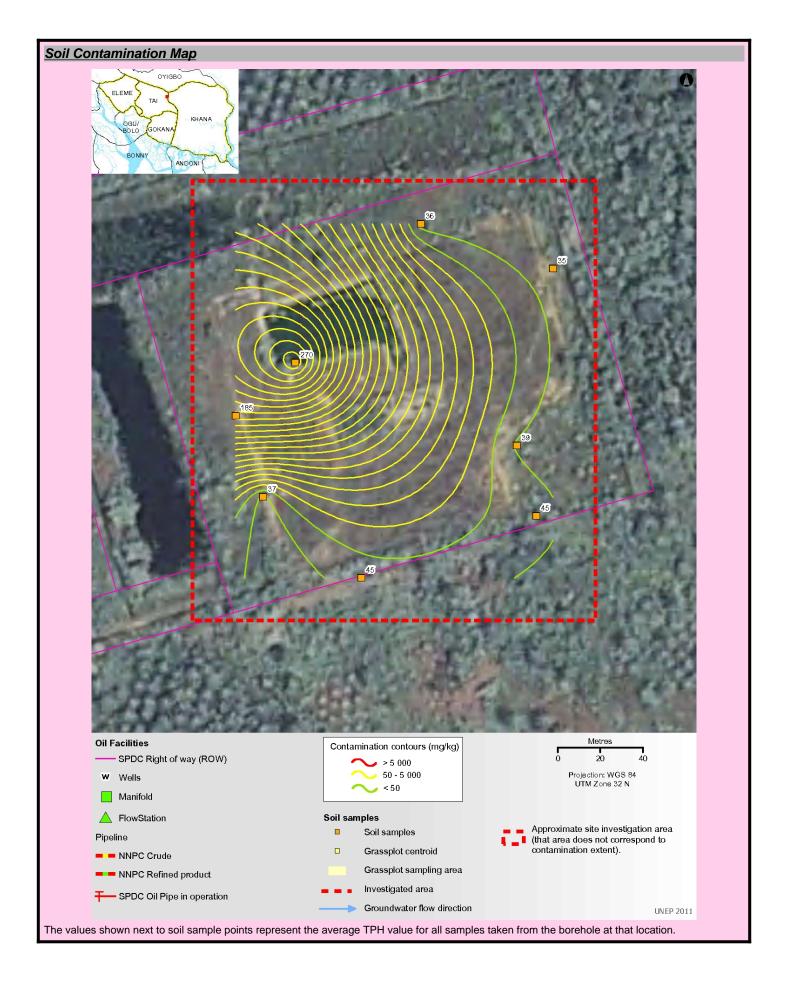
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	VII - Sar	nple List				
I sample list						
Sample Identifier	Total petroleum hydrocarbon (mg/kg)	Depth (m)	Easting	Northing		
2361544	22.000	1.80	312380	526465		
2361583	82.200	4.70	312380	526465		
2361613	41.000	2.60	312380	526465		
2361644	92.100	0.70	312380	526465		
2361693	not analyzed for TPH	5.00	312380	526465		
2361732	36.600	2.10	312397	526548		
2361761	12.900	3.50	312397	526548		
2361792	44.800	3.80	312397	526548		
2361827	47.100	2.70	312397	526548		
2361891	35.800	3.00	312389	526432		
2361916	45.600	4.00	312389	526432		
2361960	69.900	1.40	312389	526432		
2361995	54.600	0.70	312389	526432		
2362025	38.000	5.00	312389	526432		
2362079	30.900	2.60	312335	526569		
2362109	22.900	3.50	312335	526569		
2362131	51.000	0.60	312335	526569		
2362187	47.200	4.70	312335	526569		
2362246	43.800	1.00	312261	526441		
2362346	40.500	3.00	312261	526441		
2362364	27.200	4.00	312261	526441		
2362406	64.000	0.65	312248	526479		
2362429	561.000	4.00	312248	526479		
2362452	21.600	5.00	312248	526479		
2362561	71.700	0.50	312248	526479		
2362585	59.500	0.80	312248	526479		
2362608	186.000	3.00	312248	526479		
2362644	86.300	2.00	312248	526479		
2362711	62.900	0.60	312307	526403		
2362745	33.500	1.20	312307	526403		
2362777	45.100	2.60	312307	526403		
2362882	43.600	4.00	312307	526403		
2362914	41.200	5.00	312307	526403		
2362954	35.100	2.00	312261	526441		
2362961	48.600	0.60	312261	526441		
2362983	245.000	0.40	312276	526504		
2363001	32.700	0.80	312276	526504		
2363021	40.500	1.70	312276	526504		
2363186	567.000	4.00	312276	526504		
2363196	194.000	5.00	312276	526504		

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Sample Identifier	Total petroleum hydrocarbon (mg/kg)	Depth (m)	Easting	Northing
2363211	34.400	2.00	312389	526432
2363227	31.900	4.00	312380	526465
2363261	45.900	0.30	312380	526465
2363297	55.200	0.30	312397	526548
2363366	not analyzed for TPH	2.20	312380	526465

Groundwater sample list

Sample Identifier	Total petroleum hydrocarbon (µg/l)	Easting	Northing
2697511	BDL	312398	526555
2697512	BDL	312309	526476
2697514	BDL	312326	526530
2697515	BDL	312335	526454

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The Site Fact Sheets present more detailed data from UNEP's environmental assessment of Ogoniland on a site-by-site basis. Note that all data is based on the analysis of samples taken during the fieldwork period. The period of most intensive fieldwork ran from April to December 2010. The final sampling visit was completed in January 2011.

Here is a guide to the terms and abbreviations used. Please refer to the Environmental Assessment of Ogoniland report for details of EGASPIN target and intervention values.

Terminology

Site number Reference number allocated by UNEP to identify a study site

Area (ha) Estimated surface area (in hectares) of a given study site

Well Oil well, also referred to as a production well

Fugro well installed by Fugro at UNEP's request to enable scientific

sampling and monitoring

Community well Wells belonging to communities which are used to collect water for

drinking and sanitation needs

Contamination contour Maps that display the geographical distribution of oil contamination

concentrations in an analyzed receptor

Flare site Indicates whether the burning of unwanted gas through a pipe (or flare)

takes place at a given site

Flow station Separation facilities (also called gathering centres) which separate

natural gas and water from crude oil extracted from production wells

Incident number Numbers as supplied from the SPDC oil spills database

Manifold An arrangement of piping or valves designed to control, distribute and

often monitor fluid flow

Abbreviations

BDL Below Detection Limit
CL Contaminated Land

EGASPIN Environmental Guidelines and Standards for Petroleum Industries in

Nigeria

GW groundwater

LGA Local Government Area mbgs metre/s below ground surface

NNPC Nigerian National Petroleum Corporation

SPDC Shell Petroleum Development Company of Nigeria

TPH total petroleum hydrocarbons

UNEP United Nations Environment Programme

Explanatory Note

- The recommendations given are for initial risk reduction. Final clean up would need significant additional site specific engineering as well as consultation work.
- 2. Spill reported by SPDC has the date format YYYYMMDD
- 3. Assessment is done based on a screening of the measured value against a Nigerian or international standard
- 4. In the soil sample maps, the highest value has been cut-off to 2 times the intervention value. This was done to visually express the excedences above intervention values. Actual values are given in the sample tables.

5. The values of soil contamination listed in the Soil Contamination Maps are average values of all samples taken at that sampling location

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