

Environmental Assessment of Ogoniland Site Specific Fact Sheets

SIBARI- GBE



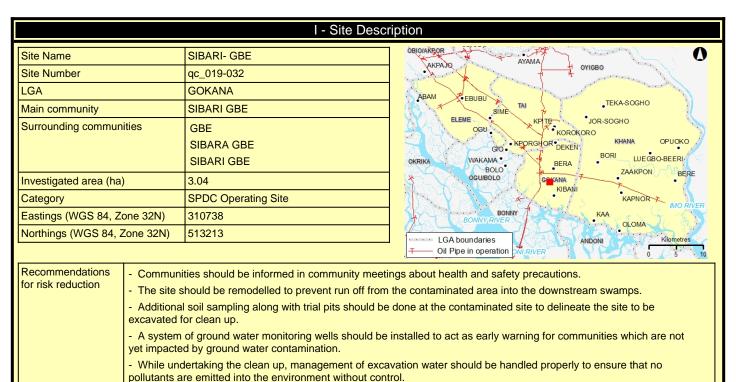
This fact sheet is part of a series prepared as part of the Environmental Assessment of Ogoniland by the United Nations Environment Programme (UNEP). It provides the observations and results from one of the individual sites studied in detail, plus the specific risk reduction measures for follow-up action.

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.



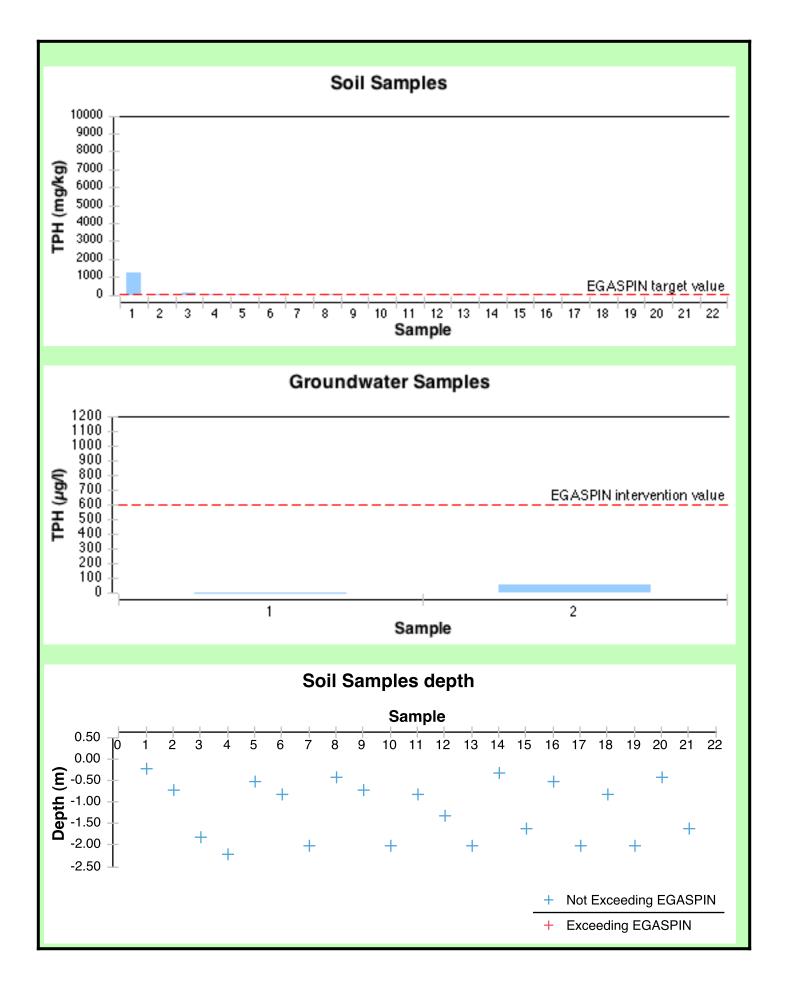
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	II - Oilfield Infrastructur	е Туре		
Wells	BOMU-033 (closed in)			
Flowstations	No			
Manifolds	No			
Flaresites	No			
Oil pipeline in operation	No			
NNPC crude line	No			
NNPC product line	No			
	III - Spill History			
Spills reported by SPDC	Incident Number	Incident Date		
	1986_0059	19860218		
Spill reported by community	Yes			
	IV Data Carrania			
	IV - Data Screenir	19		
Assessment criteria				
Soil contamination	Nigerian standards EGASPIN (intervention valu	e 5000 mg/kg; target value 50 mg/kg)		
Groundwater contamination	Nigerian standards EGASPIN (intervention valu	rds EGASPIN (intervention value 600 μg/l; target value 50 μg/l)		
Sediment contamination	Nigerian standards EGASPIN (intervention valu	tandards EGASPIN (intervention value 5000 mg/kg; target value 50 mg/kg)		
Drinking water contamination	WHO guidelines (benzene: 10 µg/l)	0(1)		
	Nigerian drinking water standards (mineral oils:	3 µg/i)		
Number of soil samples		22		
Deepest investigation (m)		2.2		
Maximum soil TPH (mg/kg)		1,220.000		
	eater than EGASPIN intervention value	0		
Deepest sample greater than EG/		0		
Number of soil measurements be	low 1m	10		
Number of soil measurements be	low 1m greater than EGASPIN intervention value	0		
Number of ground water samples		2		
Maximum groundwater TPH (µg/l)				
Number of groundwater measure	ments greater than EGASPIN intervention value	0		
Number of community well sample	es	0		
Presence of hydrocarbons in com		Not applicable		
Number of CL sediment samples		0		
Maximum CL sediment TPH (mg/kg)		Not applicable		

Not applicable

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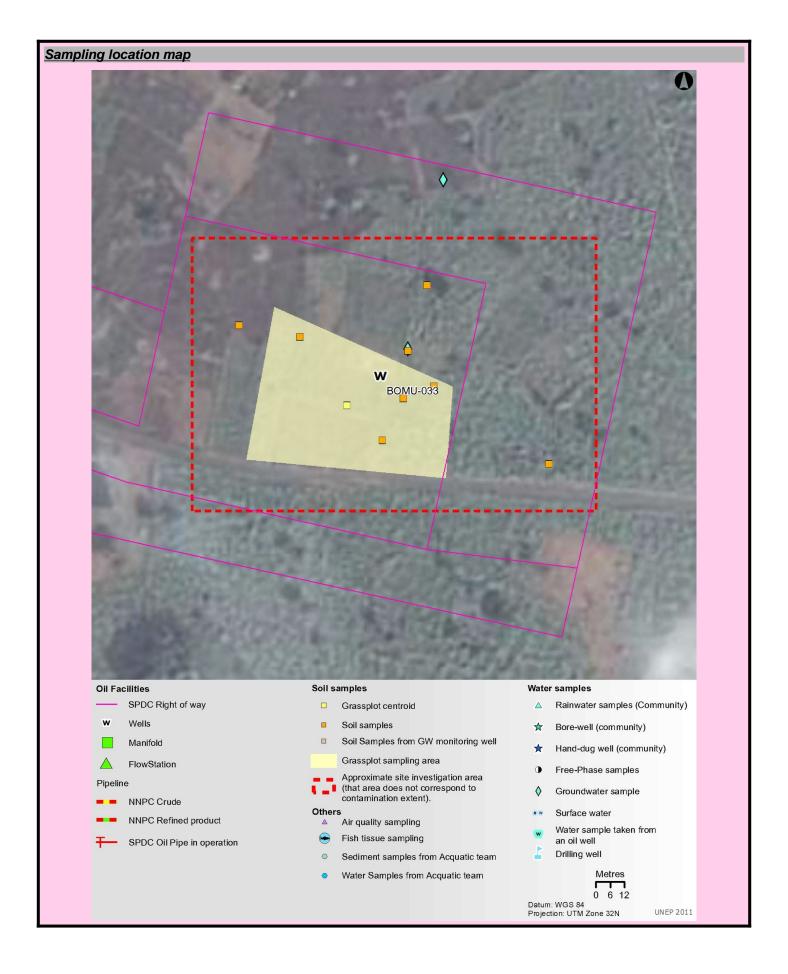
Number of CL sediment measurements greater than EGASPIN intervention value Presence of hydrocarbons in sediment above EGASPIN intervention value



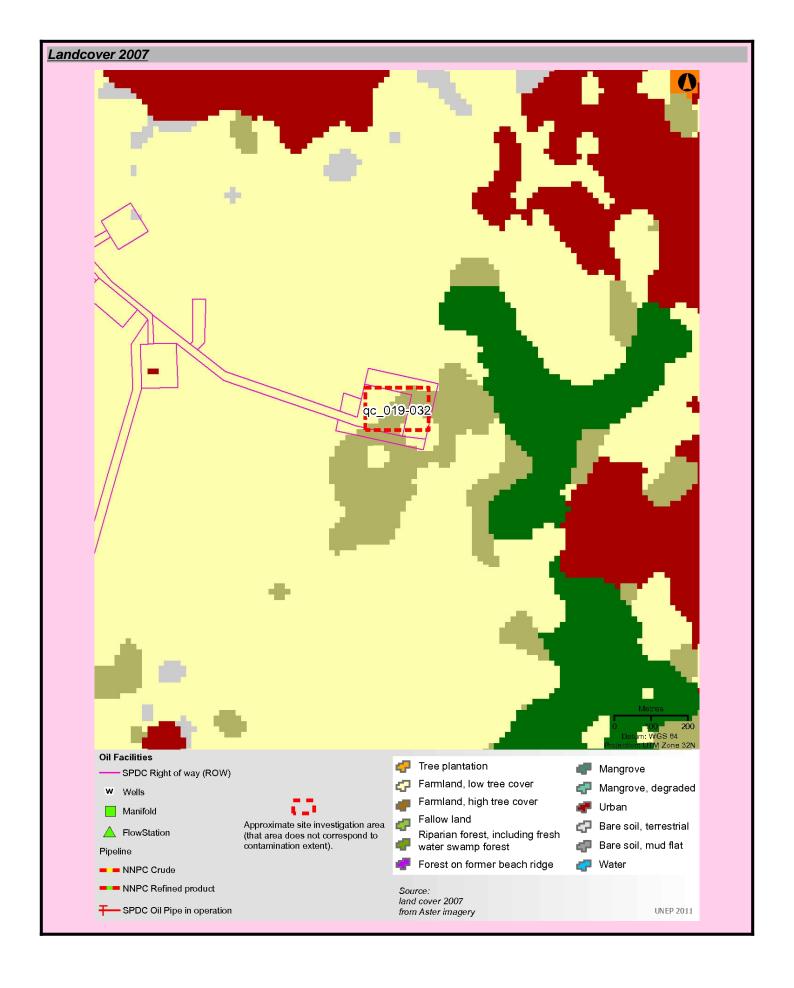
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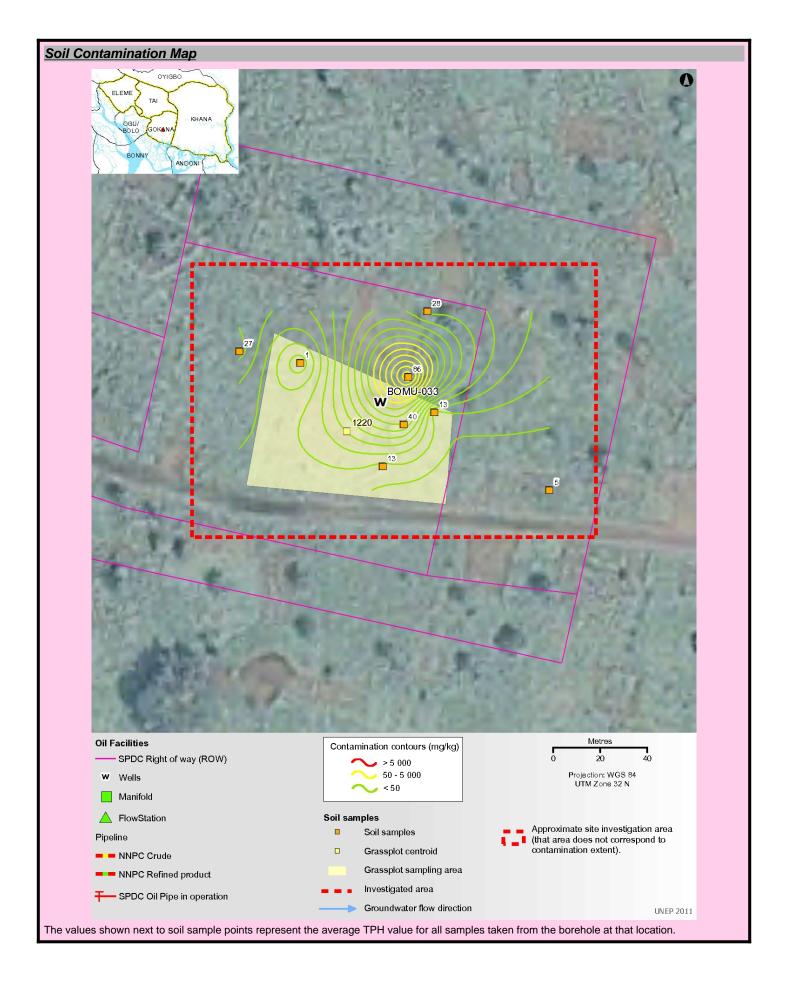
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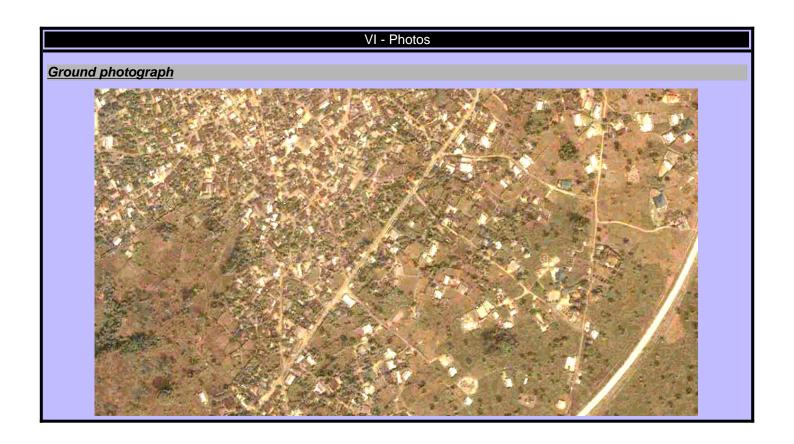
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VII - Sample List							
sample list							
Sample Identifier	Total petroleum hydrocarbon (mg/kg)	Depth (m)	Easting	Northing			
2146212	51.500	0.50	310752	513251			
2146297	30.600	0.30	310742	513203			
2146707	35.700	0.80	310672	513234			
2146978	BDL	2.00	310698	513229			
2147038	11.100	0.80	310752	513251			
2147076	3.180	0.40	310698	513229			
2148302	1,220.000	-	310718	513200			
2148332	7.700	2.00	310733	513185			
2148354	29.000	0.50	310733	513185			
2148730	2.800	0.40	310804	513175			
2148808	0.447	0.70	310698	513229			
2148847	18.600	2.00	310672	513234			
2148882	78.800	1.80	310744	513223			
2148931	6.480	0.80	310755	513208			
2148951	6.180	1.60	310804	513175			
2148991	25.500	0.20	310744	513223			
2149029	68.200	2.20	310744	513223			
2149053	41.800	1.60	310742	513203			
2149084	17.900	2.00	310755	513208			
2149169	139.000	0.70	310744	513223			
2149187	22.900	2.00	310752	513251			
2149210	26.700	1.30	310672	513234			
ndwater sample lis	<u>st</u>						
Sample Identifier	Total petroleum hydrocarbon (μg/l)	Easting		Northing			
2737159	BDL	310759		513296			
2737160	49	310744		513224			

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Guide To Content

Guide to content

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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