

HYDROCARBON POLLUTION REMEDIATION PROJECT (HYPREP)

Project Coordination Office -Environmental Remediation Unit

Environmental Remediation of Hydrocarbon Impacted Sites in Ogoniland, Rivers State.

Phase 2 Soil and Groundwater Remediation Works on Medium Risk Sites (SMR Lots)

WEEKLY REMEDIATION ACTIVITY REPORT

Reporting Week:5

Date: 07/08/2023 to 11/08/2023

Duration of Contract (in Months):24

Flag-Off Date: 27/04/2023

Mobilization Date: 11/07/2023

Expected End Date: 11/07/2025

Revised End Date: /...../202..

Duration on Site to Date (in Months -based on 22 Work Days per Month): 1 Month/22 Days

1.0 SITE INFORMATION

LOT NUMBER	SMR Lot 36	CONTRACTOR:	Philcom Integrated Limited					
SITE NAME (Name/Community)		F/S Flare Site Area 2 - Kwawa Community				UNEP Code:	qc_016 - 001	
L. G. A	Khana	SITE REFERENCE GPS COORDINATES (UTM, WGS84, ZONE 32N)				E: 331632	N: 509504	
Area (m ²) of impacted soil: in the Bill of Quantities (BoQ)		18,800m ²	Max depth of Impact (mbgs) in the Bill of Quantities (BoQ)		6.0m	Volume (m ³) of Soil in the Bill of Quantities (BoQ)		112,800m ²
Area (m ²) of impacted soil: After Site Re-Delineation			Max depth of Impact (mbgs) After Site Re-Delineation			Volume (m ³) of Soil After Site Re-Delineation		
Maximum initial Groundwater TPH (µg/l) in the Bill of Quantities (BoQ)			77,000ug/l		Maximum initial Soil TPH (mg/kg) in the Bill of Quantities (BoQ)			8,800mg/kg
Maximum initial Groundwater TPH (µg/l) After Site Re-Delineation					Maximum initial Soil TPH (mg/kg) After Site Re-Delineation			

2.0 SITE INFRASTRUCTURE

S/No	Site Infrastructures	Quantity	Size {(LxBxH) =m ² /m ³ } -as applicable	Percentage Completion (%)	GPS Coordinates (UTM, WGS84, Zone 32N)		Remarks / Working Condition
					Easting	Northing	
1	Site Offices	1	27m×25m×3m	100%	331728	509657	Completed
2	Sewage pit	1	2.4m×1.2m×2.5m	100%	331761	509670	Completed
3	Decontamination area	1	N/A				
4	Engineered Biocell	1	N/A				
5	Leachate sump	1	N/A				
6	Security Post	1	3m×2m×2.7m	100%	331728	509657	Completed
7	Borehole/Stand	1	0.6m×0.6m×15m	100%	331728	509657	Completed
8	Workers Sit Out	1	4.9m×4.9m×3.5m	100%	331755	509652	Completed
9	Security Lights	5	0.1m×0.1m×5m	100%			Installed at perimeter of the site office.
10	Liquid Waste Point	1	3.7m×1.2m×0.3m	100%	331763	509643	Completed

3.0 SITE HSE REPORT

Computation of Work Manhours

A	B	C	D	E
Total number of personnel on site	Number of days worked in the week	Number of days worked from inception to date	Week Manhours (A × B × 8hrs)	Project to Date Manhours (A × C × 8hrs)
43	5	22	1,720	7,568

HSE Checks

S/N	Work Description	Number	Cumulative	Remarks
1	Toolbox Meetings / Talks	5	22	Toolbox carried out daily
2	Unsafe Acts / Unsafe Conditions (UA/UC) recorded	2/0	2/0	UA identified by HSE Officer
3	Unsafe Acts / Unsafe Conditions (UA/UC/) Closed out	2/0	2/0	UA finally closeout
4.	Near miss recorded	1	1	Snake appearance
5.	First Aid case	Nil	Nil	Nil
6.	Medical Treatment Case	Nil	Nil	Nil
7.	Environmental Incident	Nil	Nil	Nil
8	Gas testing frequency	Nil	Nil	Nil
9	Gas emission beyond safety range.	Nil	Nil	Nil
10	Work disruption by on-site community staff	Nil	Nil	Nil
11	Work disruption by off-site community intruders	Nil	Nil	Nil
12	Work disruption due to breakdown of work equipment such as excavator, tiller, or bulldozer	1	1	Equipment fixed
13	Lost hours due to equipment breakdown	4	4	Equipment finally was fixed
14	Waste management practices on site - housekeeping issues	Nil	Nil	Nil
15	Access control and body temperature checks	Nil	Nil	Nil
16	Personnel hygiene at site - hand washing	Nil	Nil	Nil
17	Property/equipment damage	Nil	Nil	Nil
18	Fire incident	Nil	Nil	Nil
19	Monthly HSE meeting (s)	Nil	Nil	Nil
21	HSE training	Nil	Nil	Nil
20	No. of drills	Nil	Nil	Nil
21	Fatality	Nil	Nil	Nil

4.0 REMEDIATION ACTIVITY REPORT

4.1: Remediation Technique / Nutrient Application

Approved Remediation Technique - Soil	TPH Bioremediation Treatment Method (Surfactant Enhanced Bio- remediation)	Approved Remediation Technique - Groundwater	Ivey-sol 'Push-pull' and 'Sweep' Application (Surfactant Enhanced Remediation)
NOSDRA approved Nutrient(s) Amendment in use	Not yet in place	Ratios of Dilution of Nutrient and Application of Mixture respectively : ; / Not yet in place

4.2: Excavation & Treatment Weekly reporting

Date Excavation Commenced				Date Treatment Commenced					
Treatment Batch/Cycle (Present / Cummulative)									
S/N	Activity	Quantity Completed Previously	Quantity Pending	Week Totals		Cumulative Totals		Remarks	
				Quantity Achieved	Quantity Pending	Quantity Achieved	Quantity Pending		
	Excavation of topsoil {Area (m ²)}								
	Excavation of topsoil {Depth (mbgs)}								
	Excavation of topsoil {Volume (m ³)}								
	Excavation of impacted subsurface soil {Area (m ²)}								
	Excavation of impacted subsurface soil {Depth (mbgs)}								
	Excavation of impacted subsurface soil {Volume (m ³)}								
	Volume of Impacted topsoil transferred into Biocell for treatment (m ³)								
	Volume of Impacted subsurface soil transferred into Biocell for treatment (m ³)								
	Volume of excavated impacted subsurface soils awaiting transfer to bio cell for treatment (m ³)								

	Volume of clean topsoil in the topsoil storage area (m ³)							
	Volume of Treated topsoil in the topsoil staging area (m ³)							
	Volume of Treated subsurface soils in the staging area (m ³)							
	Volume of Nutrient Applied (l or g)							
	Treatment of Groundwater (l) where applicable							
	Volume of treated subsurface soil backfilled (m ³)							
	Area of excavated pit backfilled (m ²)							
	Volume of topsoil backfilled (m ³)							
	Area of excavated pit backfilled with topsoil (m ²)							
	Leveling of excavated area (m ²)							
	Landscaping of work area (m ²)							
	Evacuation of recovered wastes							
	i. Free phase crude oil (ltr)							
	ii. Oily sludge /emulsified crude oil (ltr)							
	iii. Petrified carbonized materials (kg)							
	iv. Used Oily materials (eg. Absorbent pads)							
	v. Other (please, specify):.....							
	vi. Other (please, specify):.....							
	Decommissioning of Site infrastructures:							
	i. Site Office (%)							
	ii. Sewage pit (%)							
	iii. Decontamination area (%)							
	iv. Engineered biocell (%)							
	v. Leachate sump (%)							
	vi. Other (please, specify):.....							

	vii. Other (please, specify):.....							
	General / Final House-keeping							
	i. Evacuation of segregated wastes (kg)							
	ii. Evacuation of shredded HDPE liners (%)							
	iii. Management of shredded sand bags (%)							
	iv. Pieces of Concretes (%)							
	v. Used plastics / other polyethylene materials (%)							
	vi. Other (please, specify):.....							
	vii. Other (please, specify):.....							

4.3: Quality Assurance / Quality Control (QAQC) Checks

			<u>4.3.1: Trending of Reductions in the Concentration of Total Petroleum Hydrocarbons (TPH)</u>				
				SOIL (mg/kg)	GROUNDWATER (μ/L)	Remarks	
TPH Concentration s	In Bill of Quantities						
	After Site Re-Characterization & Re-Delineation						
	Batches / Cycles of Treatment						

	Batch / Cycle Identity	Volume of Soil per Batch / Cycle	Before Treatment	After Treatment	Before Treatment	After Treatment	
Trending of TPH Concentration s across Batches / Cycles of Treatment	Batch / Cycle I						
	Batch / Cycle II						
	Batch / Cycle III						
	Batch / Cycle IV						
	Batch / Cycle V						
	Batch / Cycle VI						
	Batch / Cycle VII						
	Batch / Cycle VIII						
	Batch / Cycle IX						
	Batch / Cycle X						
	Batch / Cycle XI						
	Batch / Cycle XII						
	Batch / Cycle XIII						
	Batch / Cycle XIV						
	Batch / Cycle XV						

[illegible]

[illegible]

CHRONOLOGY OF ACTIVITIES

S/NO	DATE	ACTIVITIES OF THE DAY	REMARK
1	MONDAY 31st July 2023	1. Toolbox Meeting 2. Commenced General Site Clearing 3. Completed workers sit out 4. General Housekeeping	find attached photos
<u>2</u>	TUESDAY 01st July 2023	1. Toolbox Meeting 2. General Site Clearing 3. <i>General Housekeeping</i>	find attached photos
<u>3</u>	WEDNESDAY 02nd July 2023	1. Toolbox meeting 2. General Site Clearing 3. General Housekeeping	find attached photos
4	THURSDAY 03rd July 2023	1. Toolbox meeting 2. General Site Clearing 3. General Housekeeping	find attached photos
5	FRIDAY 04th July 2023	1. Toolbox meeting 2. General Site Clearing 3. General Housekeeping	find attached photos

Barima Justice
 Project Manager

Site photos



Plate 1: Toolbox Meeting



Plate 2: General Site Clearing



Plate 3: Biocell Area Clearing



Plate 4: General Site Clearing



Plate 5: General Housekeeping



Plate 6: Completed Workers Sit Out