JIV report S/N:

INCIDENT NO: 1834766

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 834766 2.Type of incident* 1. Spill incident Number: IMO RIVER 3. Name of Location 12 5. State: ARIA 4. Name of nearest community **OWAZA** _ 6. LGA <u>UKW**A -** WES</u>T PIPELINE 7. Type of Production facility/Installation Oll PETROLEUM DEVELOPMENT COMPANY 8. Asset owner/District B. INCIDENT/INFORMATION: 9. Details of incident <u>APRIL</u>, 2017 a. Date of incident: b. Start date/time of investigation: 8TH APRIL, 2017/12:04 HOURS c. Investigation End date: 9TH APRIL 2017 Actual investigation duration, days: Two (2) DAYS d. Description of spill point environment Loose soil Recently excavated area ☐ Firm soil Swampy ☐ Exposed pipe surface Under water □Well Platform (on Water DrillRig Additional observations around the spill point: THE WITHIN THE VICINITY OF TARRED ACCESS ROAD. e. Description of leak point (tick as applicable); Hack saw cut Tear (☐ Drilled hole Inward dent. ■ Well head tampering Complete Rupture ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) point, ☐ Third party tampering with Clamp ☐ Saver-pit over flow ☐ Third party tampering with flange, ☐ Third party tampering with valve setting Bulging Outward ☐Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure ☐ Relief valve failure Accidental 3rd party equipment impact Valve Failure □Others(specify) f. Incident caused by: ☐Third party interference (Sabotage☐:crude theft☐: Line theft☐: Accidental 3rd party damage☐) Others (including Mystery spills) ☐ Operational

^{*}This can be: a) Oil Spill b) Drilling fluid Chemical c) Siluation d) construction e) Encroachment f) Fire.

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g. Spill point coordinates h. Measuring unit Northing:	Easting:
4.98078	7.17 431
C. RISK ASSESSMENT	
10. Type of environment:	
Land Swamp Water	Seasonal swamp Shoreline/Waterfront
i. Type of environment to which oil has spread:	
✓Land □Swamp □Water	River (identify)
ii, Weather condition	
√ZRain □Sunny □Dry □Wet	□Windy □Hot □cool
11. Distance from the nearest sensitive habitat	•
 □ Government reserved and designated protected area □ Drinking water source □ Built up area □ Farmlands □ Fish Farm/Pond □ Fishing net □ Others (specify). PALM TREES 	[
12. Containment measures put in place;	
Booms	□ Natural depression □ Pit □ None
Others: BUND WALL	
13. Any pictures or video coverage?	[N] [N]
14. Further response/repair initiated as at the time of JIV?	. [Y]/[N]
•	ED PIPELINE SECTION BY CLAMPING.
15. Was there any disruption to the investigation?	[Y] [N]

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

If yes to item 15 give brief description:

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44		16. Structures / Prop	perties							
K.P.	S/N	Type of Structu		Description	Size	Number		ommen	nts	
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	S/N	Type of crops	Young		Medium	Matured	Quantity		Comments	
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		18. Fishing Nets/Fis								
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		19. Others (Specify)								•
	S/N	Others	D ₁	escription		Quantity/Size	Comments	<u> </u>		
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F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

20	Impacted area boundary Coordinates (15 ma	se, Print and Mach as an appendix)
S/N	Northing	Easting
	4-98080	7.17.438
	4.98085	7.17442
	4.98088	7.17435
	4.98084	7.17432
	4.98078	2.17431
	-	
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Impacted Area Details Total calculated an	ea of impact 0.0076HA	
Impact within R.O	-1CC	
Impact outside R.C Volume of oil recovered by	o.W	
volume of off Tecovered o	Recovered oil V _{rec.j} :	Barrels
Controlled recovery/evacuation	on from source with no impact to environment:	
Controlled recovery/evacuation	on from source with no impact to environment: Barrels	
Controlled recovery/evacuation		·
Net Estimated Spilled Vol	Barrels	
	Barrels	
<u>. </u>	Barrels	· •
	Barrels umeV _{Est} (bbls)* = 1.84	

*Notes:

Volume estimation was done using an excel based tool/see attached for details on the calculation) Reported spilled volume is an estimate

Write other relevant notes taken into consideration for estimating the spilled in the box below:

PPLICABLE

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site:

Conversion of m² to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules;

Any spill volume in excess of -1 bbl - is rounded up to the next whole number.

Any spill volume in less than - 1 bbl - is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbt ----- Reported volume = 16 bbt Calculated volume = 0.35 bbl Reported volume = 0.4 bbl

Calculated volume = 0.01 bbl Reported volume = 0.1 bbl

Wherever this extinuition tool is not applicable please refer to paragraph 6. (Deviations) of the AU procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and analytic the AU report

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d. General Status of the site

i.	Joint investigation of the incident site found that there is no residual impact after the initial response an therefore recommend that the site be closed out	nd JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	1

e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- Host Community:
- Department of Petroleum Resources [DPR]:\□
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- Asset Owner:
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same finding

Tick as applicable

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f. Appendix 1: Overview sketch of the site

