

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N 1088

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

## A. GENERAL INFORMATION:

1. Spill incident Number: 2098196 2. Type of incident\* OIL SPILL  
3. Name of Location 10" DIEBUI CREEK - NUN RIVER (D/L) PIPELINE  
4. Name of nearest community OPORDOMA 5. State: BAYELSA 6. LGA SOUTHERN IJAW  
7. Type of Production facility/Installation OIL PIPELINE  
8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED  
/PIPELINE

## B. INCIDENT INFORMATION:

### 9. Details of incident

- a. Date of incident: 11<sup>TH</sup> JUNE, 2018  
b. Start date/time of investigation: 21<sup>ST</sup> JUNE, 2018 AM  
c. Investigation End date: 22<sup>ND</sup> JUNE, 2018 Actual investigation duration, days: TWO DAYS  
d. Description of spill point environment

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Firm soil                | <input checked="" type="checkbox"/> Loose soil | <input checked="" type="checkbox"/> Recently excavated area |
| <input type="checkbox"/> Under water              | <input checked="" type="checkbox"/> Swampy     | <input type="checkbox"/> Exposed pipe surface               |
| <input type="checkbox"/> Well Platform (on Water) | <input type="checkbox"/> Drill Rig             |   |

Additional observations around the spill point:

NOT APPLICABLE

### e. Description of leak point (tick as applicable);

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Drilled hole                               | <input checked="" type="checkbox"/> Hack saw cut | <input type="checkbox"/> Tear (_____).                                     |
| <input type="checkbox"/> Complete Rupture                           | <input type="checkbox"/> Inward dent,            | <input type="checkbox"/> Well head tampering                               |
| <input type="checkbox"/> Failed Weld-on illegal hot tap valve       | <input type="checkbox"/> Failed Clamp,           | <input type="checkbox"/> Missing Pipeline/Flowline                         |
| <input type="checkbox"/> Crude oil theft (illegal bunkering) point, | <input type="checkbox"/> Saver-pit over flow     | <input type="checkbox"/> Third party tampering with Clamp                  |
| <input type="checkbox"/> Third party tampering with valve setting   | <input type="checkbox"/> Bulging Outward         | <input type="checkbox"/> Third party tampering with flange,                |
| <input type="checkbox"/> Flare System/Bund wall failure             | <input type="checkbox"/> Cold vent               | <input type="checkbox"/> Surge vessel overflow,                            |
| <input type="checkbox"/> Valve Failure                              | <input type="checkbox"/> Relief valve failure    | <input type="checkbox"/> Accidental 3 <sup>rd</sup> party equipment impact |
| <input type="checkbox"/> Corrosion                                  | <input type="checkbox"/> Others(specify) _____   |  |

### f. Incident caused by:

- Third party interference (Sabotage ; crude theft ; Line theft ; Accidental 3<sup>rd</sup> party damage   
 Operational  Mystery spills  Others(specify) \_\_\_\_\_

\*This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire.

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N: 1088

g. Spill point coordinates

h. Measuring unit

WGS 84

Northing: <u>LATITUDE</u>	Easting: <u>LONGITUDE</u>
<u>4.799357</u>	<u>6.107965</u>
<del> </del>	<del> </del>
<del> </del>	<del> </del>

## C. RISK ASSESSMENT

10. Type of environment:

- Land     
  Swamp     
  Water     
  Seasonal swamp     
  Shoreline/Waterfront

i. Type of environment to which oil has spread:

- Land     
  <sup>SEASONAL</sup> Swamp     
  Water     
  River (identify) \_\_\_\_\_

ii. Weather condition

- Rain     
  Sunny     
  Dry     
  Wet     
  Windy     
  Hot     
  Cool

11. Distance from the nearest sensitive habitat

- |  |   |     |   |                                  |
|--|---|-----|---|----------------------------------|
| <input type="checkbox"/> Government reserved and designated protected area | [ | ,m] | } | NONE SEEN<br>WITHIN<br>VICINITY. |
| <input type="checkbox"/> Drinking water source                             | [ | ,m] |   |                                  |
| <input type="checkbox"/> Built up area                                     | [ | ,m] |   |                                  |
| <input type="checkbox"/> Farmlands   | [ | ,m] |   |                                  |
| <input type="checkbox"/> Fish Farm/pond                                    | [ | ,m] |   |                                  |
| <input type="checkbox"/> Fishing net                                       | [ | ,m] |   |                                  |
| <input type="checkbox"/> Others (specify).                                 | [ | ,m] |   |                                  |

12. Containment measures put in place;

- Booms     
  Trench     
  Dyke     
  Natural depression     
  Pit     
  None
- Others: \_\_\_\_\_

13. Any pictures or video coverage?      [Y] [N]

14. Further response/repair initiated as at the time of JIV?      [Y] [N]

if yes to item 14. give brief description:

REPAIR WORK BY SECTIONAL REPLACEMENT ON-GOING

15. Was there any disruption to the investigation?      [Y] [N]

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N: 1088

If yes to item 15 give brief description:

NOT APPLICABLE

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

**16. Structures / Properties**

S/N	Type of Structures	Description	Size	Number	Comments
NONE WITHIN AREA OF IMPACT					

**17. Crops/Economic Trees**

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
NONE WITHIN AREA OF IMPACT						

**18. Fishing Nets/Fish Ponds**

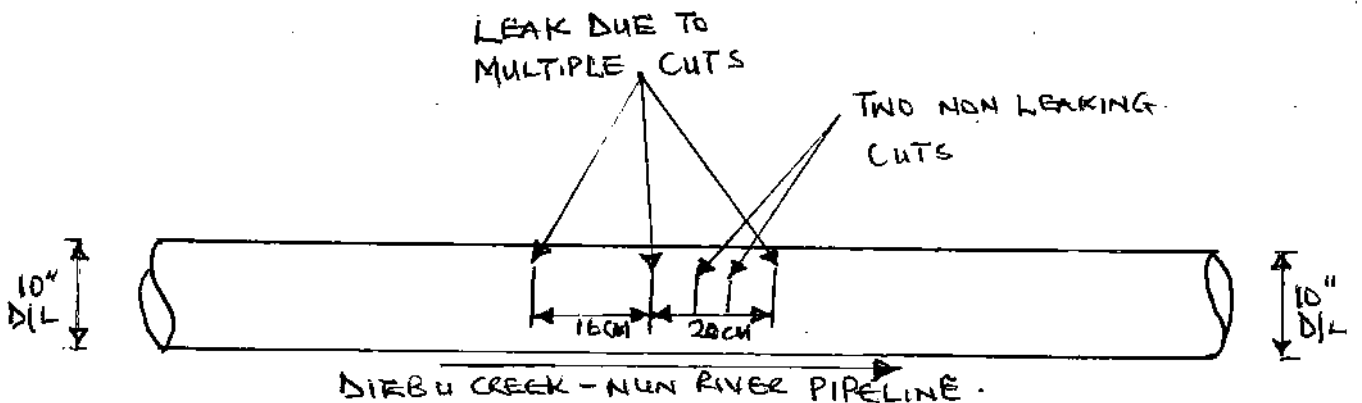
S/N	Nets/Ponds	Description	Quantity/Size	Comments
NONE WITHIN AREA OF IMPACT				

**19. Others (Specify) i.e. Animal Traps**

S/N	Others	Description	Quantity/Size	Comments
NONE WITHIN AREA OF IMPACT				

**E. GRAPHIC DESCRIPTION OF LEAK POINT** *(While detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix I)*

**SECTIONAL VIEW OF 10" DIEBU CREEK - NUN RIVER (D/L) PIPELINE AT OPOROMA SHOWING:- MULTIPLE CUTS BY UNKNOWN PERSON (S)**



# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196      JIV report S/N: 1088

**F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION**

20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

WGS 84

S/N	Northing	LATITUDE	Easting	LONGITUDE
P1		4.79956		6.10789
P2		4.79964		6.10797
P3		4.79964		6.10797
P4		4.79959		6.10797

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N: 1088

## G. INCIDENT INFORMATION:

### a. Impacted Area Details

- Total calculated area of impact 0.002456 Ha.
- Impact within R.O.W YES
- Impact outside R.O.W NO

### b. Volume of oil recovered before completion of JIV ( $V_{rec}$ ):

Recovered oil $V_{rec}$ :	<u>NIL</u>	Barrels
---------------------------	------------	---------

Controlled recovery/evacuation from source with no impact to environment:

<u>NIL</u>	Barrels
------------	---------

### c. Net Estimated Spilled Volume $V_{Est}(bbls)^* =$

0.75 BARREL

### Estimated Reported Volume $V_{Rpt}(bbls) =$

1 BARREL

#### \*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:

**NOT APPLICABLE**

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  $m^3$  to barrels is Volume:  $(m^3) \times 6.29$ : \*\*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 bbl ----- Reported volume = 16 bbl  
Calculated volume = 0.35 bbl ----- Reported volume = 0.4 bbl  
Calculated volume = 0.01 bbl ----- Reported volume = 0.1 bbl

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

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N: 1088

## d. General Status of the site

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

## 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 findings

*Tick as applicable*

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2098196 JIV report S/N: 1088

f. Appendix 1: Overview sketch of the site

