

SARAWAK SHELL BERHAD  
SABAH SHELL PETROLEUM CO. LTD  
**LABUAN CRUDE OIL TERMINAL**

From : EPS-LIT (Laboratory)  
To : EPS-LIO

Date: 02/11/99

TANK 101 SLUDGE TREATMENT MONITORING REPORT

Report Reference : TK101/014/99

| Job Request Ref:   |                       |  |                                |                 |
|--|-----------------------|--|--------------------------------|-----------------|
| Taken From : ESP Treatment Plant   |                       | Sample Description : ESP-Crude Holding TK5 |                                |                 |
| Taken By : Johari Junaidi  |                       | Indicator : EPT-DPC                        | Date/Time : 02/11/99 @ 1000 Hr |                 |
| Received By : Johari Junaidi   |                       | Indicator : EPT-DPC                        | Date/Time : 02/11/99 @ 1000 Hr |                 |
| TESTS  | UNIT                  | RESULT                                     | METHOD                         | ACCEPTABLE L    |
| <u>Treated Crude</u>   |                       |  |                                |                 |
| Bottom Sediment and Water (B.S.&W%)  | % Vol.                | See Below                                  | ASTM D 4007-81                 | < 2.00 %        |
| Density @ 15 °C  | Kg/l                  | 0.8863                                     | ASTM D 1298-85                 |                 |
| Pour Point   | ° C                   | 10.0                                       | ASTM D 97-96a                  | < 15 ° C        |
| <u>Effluent</u>  |                       |  |                                |                 |
| Oil and Grease by Gravimetric  | mg/l                  | N/A  | APHA 5520 B                    | < 500 mg/l      |
| pH   |                       | N/A  |                                | > pH5 - < pH8.5 |
| Comments :-  |                       |  |                                |                 |
|  | <i>B.S. &amp; W %</i> | <i>0.00</i>                                |                                |                 |
|  | <i>Emulsion %</i>     | <i>1.40</i>                                |                                |                 |
|  | <i>Oil %</i>          | <i>98.60</i>                               |                                |                 |
| <p><b>Test results shall not be reproduced, except in full, without written approval from the Laboratory.</b></p> <p><b>The above results relate only to the items tested.</b></p> |                       |  |                                |                 |
| Analysed : Johari Junaidi  |                       | Checked By :                               |                                |                 |
| Indicator : EPT-DPC  |                       | Indicator :                                |                                |                 |
| Date : 02/11/99 @ 1140 Hrs   |                       | Date :                                     |                                |                 |