

ENVIRONMENT AND PUBLIC HEALTH ORGANIZATION

ENPHO LABORATORY

WASTEWATER ANALYSIS REPORT

Lab. Reg. No.: 759(072-073)

| | |
|---|------------------------------------|
| Client: Lahar Srijana | Source: Industrial Effluent |
| Location/Area: Gaidakot, Nawalparasi | Sampled By: Client |
| Address: Gaidakot, Nawalparashi | Received On: 2015-11-25 |
| | Completed On: 2015-12-03 |

PHYSICO-CHEMICAL AND MICROBIOLOGICAL ANALYSIS

| Parameters | Unit | Sample ID | NG / Std | Test Methods |
|---------------------------------|------|--------------|----------|------------------------------------|
| | | 759(072-073) | | |
| Temperature | °C | 20 | | Thermometer |
| pH | - | 4.9 | 5.5-9.0 | APHA, AWWA, WEF (2012), 4500-H B |
| Total Suspended Solids (TSS) | mg/L | 298 | 30-200 | APHA, AWWA, WEF (2012), 2540 D |
| Fluoride | mg/L | ND(< 0.5) | 2 | APHA, AWWA, WEF (2012), 4500-F D |
| Ammonia | mg/l | 34.4 | - | APHA, AWWA, WEF (2012), 4500-NH3 F |
| Phenol | mg/L | 0.48 | 1 | APHA, AWWA, WEF (2012), 5530 D |
| Sulphide | mg/L | 2 | 2 | APHA, AWWA, WEF (2012), 4500 F |
| Biochemical Oxygen Demand (BOD) | mg/L | 1475 | 30-100 | APHA, AWWA, WEF (2012), 5210 B |
| Chemical Oxygen Demand (COD) | mg/L | 2808 | 250 | APHA, AWWA, WEF (2012), 5220 B |
| Copper (Cu) | mg/L | 0.04 | 3 | APHA, AWWA, WEF (2012), 3111 B |
| Silver | mg/L | ND(< 0.05) | 0.1 | APHA, AWWA, WEF (2012), 3111 B |
| Zinc (Zn) | mg/L | 0.22 | 5 | APHA, AWWA, WEF (2012), 3111 B |
| Cadmium (Cd) | mg/L | ND(< 0.003) | 2 | APHA, AWWA, WEF (2012), 3111 B |
| Lead (Pb) | mg/L | ND(< 0.01) | 0.1 | APHA, AWWA, WEF (2012), 3111 B |
| Nickel (Ni) | mg/L | ND(< 0.30) | 3 | APHA, AWWA, WEF (2012), 3111 B |
| Mercury (Hg) | mg/L | ND(< 0.001) | 0.01 | APHA, AWWA, WEF (2012), 3112 B |
| Arsenic (As) | mg/L | ND(< 0.005) | 0.2 | APHA, AWWA, WEF (2012), 3114 B |
| Oil & Grease | mg/l | ND(< 1.000) | 10 | APHA, AWWA, WEF (2012), 5520 B |

NG/Std*=Nepal Government-Generic Standard

References: Standard Methods for the examination of Water and Wastewater (APHA, AWWA & WEF) 22nd Edition (2012).


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