

GEE LONG LEATHER PTY LTD - CULCAIRN

NON-CHROME SLUDGE TEST RESULTS 2019

EPA ID LOCATION: 23

EPA LICENSE NUMBER: 3465



*Not Tested (NT) No Sample (NS)

| ANALYSIS | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19 | Sep-19 | HIGH | LOW | AVE |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| pH - pH Units | | 7.3 | | | 9 | | | 6.3 | | | | 12.4 | 12.4 | 6.3 | 8.75 |
| Electrical Conductivity - µS/cm | | 9610 | | | 10900 | | | 15360 | | | | 12000 | 15360 | 9610 | 11967.50 |
| Total Kjeldahl Nitrogen - mg/L | | 1070 | | | 2150 | | | 789 | | | | 2580 | 2580 | 789 | 1647.25 |
| Total Phosphorus - mg/L | | 91.5 | | | 245 | | | 98.5 | | | | 0.1 | 245 | 0.1 | 108.78 |
| Total Suspended Solids - mg/L | | 14140 | | | 212.62 | | | 41500 | | | | 4000 | 41500 | 212.62 | 14963.16 |
| Total Dissolved Solids (grav) - mg/L | | 12200 | | | 8260 | | | 9180 | | | | 9600 | 12200 | 8260 | 9810 |
| BOD - mg/L | | 7670 | | | 18200 | | | 7610 | | | | 4700 | 18200 | 4700 | 9545.00 |
| COD - mgO ₂ /L | | 12000 | | | 106000 | | | 63000 | | | | 29300 | 106000 | 12000 | 52575.00 |
| Nitrate N - mg/L | | 6.42 | | | 0.71 | | | 0.1 | | | | 4.25 | 6.42 | 0.1 | 2.87 |
| Oil & Grease (LLE) - mg/L | | 2810 | | | 318 | | | 415 | | | | 9550 | 9550 | 318 | 3273.25 |
| Total S (Sulphur = Sulphate + Sulphite + Sulphide) | | 607 | | | 563 | | | 371 | | | | 620 | 620 | 371 | 540.25 |
| Chloride - mg/L | | 1138 | | | 918 | | | 575 | | | | 1449 | 1449 | 575 | 1020.00 |
| Ammonia as N - mg/L | | 263 | | | 980 | | | 71.6 | | | | 132 | 980 | 71.6 | 361.65 |
| Sodium - mg/L | | 1217 | | | 1298 | | | 647 | | | | 865 | 1298 | 647 | 1006.75 |
| Potassium - mg/L | | 116 | | | 83.8 | | | 32 | | | | 54.4 | 116 | 32 | 71.55 |
| Calcium - mg/L | | 933 | | | 1202 | | | 687 | | | | 1469 | 1469 | 687 | 1072.75 |
| Magnesium - mg/L | | 81 | | | 49 | | | 184 | | | | 44 | 184 | 44 | 89.50 |
| Manganese - mg/L | | 0.75 | | | 0.249 | | | 2.46 | | | | 0.581 | 2.46 | 0.249 | 1.01 |
| Chromium III - mg/L | | 1 | | | 13.8 | | | 0.58 | | | | 0.5 | 13.8 | 0.5 | 3.97 |
| Chromium VI - mg/L | | 1 | | | 0.1 | | | 0.1 | | | | 0.5 | 1 | 0.1 | 0.43 |
| SAR | | 10 | | | 10 | | | 5.7 | | | | 6.1 | 10 | 5.7 | 7.95 |
| Sulphate, SO ₄ - mg/L | | 20 | | | 588 | | | 19 | | | | 704 | 704 | 19 | 332.75 |
| Nitrogen Total - mg/L | | 1070 | | | 2150 | | | 789 | | | | 2580 | 2580 | 789 | 1647.25 |
| Total Solids - % | | 6.4 | | | 7.5 | | | 52 | | | | 44.2 | 52 | 6.4 | 27.53 |
| Arsenic - mg/Kg | | 5 | | | 5 | | | 5 | | | | 5 | 5 | 5 | 5.00 |
| Cadmium - mg/Kg | | 2 | | | 2 | | | 1 | | | | 1 | 2 | 1 | 1.50 |
| Copper - mg/Kg | | 5 | | | 5 | | | 5 | | | | 5 | 5 | 5 | 5.00 |
| Lead - mg/Kg | | 5 | | | 5 | | | 5 | | | | 5 | 5 | 5 | 5.00 |
| Mercury - mg/Kg | | 0.2 | | | 0.2 | | | 0.1 | | | | 0.1 | 0.2 | 0.1 | 0.15 |
| Nickel - mg/Kg | | 4 | | | 5 | | | 3 | | | | 3 | 5 | 3 | 3.75 |
| Zinc - mg/Kg | | 36 | | | 22 | | | 39 | | | | 48 | 48 | 22 | 36.25 |
| Iron - mg/Kg | | 430 | | | 530 | | | 750 | | | | 670 | 750 | 430 | 595.00 |