

Electrocoagulation of Pesticide (Halogenated Hydrocarbons) (006-864)

| | <u>Raw</u> | <u>Treated</u> | <u>Sludge</u> | <u>% Removed From Water</u> |
|-------------------------|------------|----------------|---------------|-----------------------------|
| % Solids | 0.969 | 0.391 | 13.799 | 59.6% |
| % Total Grease | 0.215 | 0.016 | 3.799 | 92.6% |
| % Suint | 0.506 | 0.297 | 0.456 | 41.3% |
| Dirt | 0.248 | 0.078 | 9.544 | 68.5% |
| COD Value (mg/l) | 9,688 | 1,340 | - | 86.2% |
| pH | 5.88 | 4.63 | - | |
| Sulphate Value (mg/l) | 1,600 | 1,075 | - | 32.8% |
| Suspended Solids (mg/l) | 2,930 | 545 | - | 88.2% |

Organochlorine Pesticides (mg / l)

| | <u>Raw</u> | <u>Treated</u> | <u>Sludge</u> | <u>% Removal from Water</u> |
|--------------------|--------------|----------------|---------------|-----------------------------|
| a' - HCH | 0.091 | <0.001 | 0.061 | 98.9% |
| b' - HCH | 0.100 | 0.001 | 0.116 | 99.0% |
| lindane (γ' - HCH) | 0.143 | 0.001 | 0.113 | 99.3% |
| aldrin | 0.063 | 0.001 | 0.040 | 98.4% |
| p.p. DDT | 0.261 | 0.002 | 0.236 | 99.2% |
| TOTAL OC's: | 0.712 | 0.006 | 0.666 | 99.2% |

Organobopphorus Pesticides (mg / kg):

| | <u>Raw</u> | <u>Treated</u> | <u>Sludge</u> | <u>% Removal from Water</u> |
|--------------------|---------------|----------------|---------------|-----------------------------|
| Propetamphos | 80.87 | 0.36 | 14.51 | 99.6% |
| Diazinon | 34.00 | 0.21 | 14.14 | 99.4% |
| Chlorieviphos | 5.87 | 0.03 | 0.70 | 99.5% |
| TOTAL OP's: | 120.73 | 0.62 | 28.78 | 99.5% |

Synthetic Pyrethroid Pesticides (mg / kg):

| | <u>Raw</u> | <u>Treated</u> | <u>Sludge</u> | <u>% Removal from Water</u> |
|--------------------------|-------------|----------------|---------------|-----------------------------|
| Cypermethrin | 1.30 | 0.07 | 7.80 | 94.6% |
| TOTAL Pyrethroid: | 1.30 | 0.08 | 8.22 | 93.8% |