



Major Paint Manufacturer Utilizes MICROBE-LIFT® Technology to Effectively Resolve Odor Problem

Location: Glidden Company, Div of SCM Corp. Huron, OH

Background: Glidden, America’s third largest paint company had been experiencing odor problems in their 2 MG lagoon system during the warm summer months at their Ohio plant. With warmer temperatures and high manufacturing level, the system would tend to go anaerobic releasing noxious odors that upset the local community.

Objective: MICROBE-LIFT® formulation was added to the lagoon in an effort to control odor while maintaining efficient waste degradation. The waste stream contained largely coatings and resins.

Results Achieved: An evaluation of the waste treatment system was made and laboratory tests were recommended to determine the toxicity and biodegradability of the waste and sufficiency of nutrients present. Results follow:

| LABORATORY NO. | | M286-2-1 | |
|----------------|---------------|-----------------------------|--------------|
| pH | 7.16 S.U. | Sulphide (H ₂ S) | 1.00 mg/l |
| TNFLT (SS) | 39940.00 mg/l | Cd | 38.00 mg/l |
| Ammonia as N | 53.21 mg/l | Total Chromium | 284.00 mg/l |
| T. Phosphorus | 3.27 mg/l | Lead | 78.00 mg/l |
| COD | 18380.00 mg/l | Nickel | 96.00 ug/l |
| Chlorides | 58.80 mg/l | Zinc | 1450.00 ug/l |

With no serious toxicity problems present and ample nutrients, the waste was subjected to a treatability study by an outside lab to confirm that MICROBE-LIFT® technology could degrade the waste.

Ecological Laboratories’ technical representative proposed a treatment plan for MICROBE-LIFT® technology. Initially the dosage prescribed was not sufficient to solve the odor problem. The technical representative worked with Glidden personnel to alter the dosage rate after which the odor problem was completely resolved. Once the proper dosage rate was applied, the septic odor was eliminated.

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| | TREATED @ 5 PPM | | | TREATED @ 10 PPM | | | UNTREATED | | |
|--------------------|-----------------|--------------|------------------|------------------|--------------|------------------|-------------|--------------|------------------|
| | COD | TSS | H ₂ S | COD | TSS | H ₂ S | COD | TSS | H ₂ S |
| 01-10-96 | 18380 | 39940 | 116.0 | 18390 | 39940 | 116.0 | 18380 | 39940 | 116.0 |
| 01-14-96 | 2680 | 18423 | ---- | 3010 | 11150 | ---- | 17440 | 34820 | 132.0 |
| 01-20-96 | 1938 | 14050 | 1.21 | 1011 | 7000 | 0.79 | 16978 | 28690 | 151.0 |
| % Reduction | 89.5% | 64.8% | 9% | 94.5% | 82.5% | 99.3% | 7.6% | 28.2% | -30% |

Fig. 1: This chart demonstrates that the waste was readily degradable by MICROBE-LIFT® technology.

Mr. C. Hoffer, the Glidden Environmental Coordinator, was pleased with the resolution of his challenge by MICROBE-LIFT® Technology and recommends this technology to others. (Testimonial available)

For more information on MICROBE-LIFT® Technology contact
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