

Written by Administrator
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In general, the heavy metal in TCLP extract increases marginally with the increase of dump material and heavy metal ratios. The extract was observed to be 57.6 mg/l, in 50.50 ml (alternative 1) and 60.25 mg/l, in 50.50 ml (alternative 2) (alternative 3). The hexavalent chromium varied from 43.43 mg/l, to 50.25 mg/l. It can be seen that chromium concentration was after S/S is high. Even solidification and stabilization process is not effective at lower margin ratio of 50:50. This is due to the presence of hexavalent chromium. The concentration even after S/S does not comply with the prescribed limit prescribed by EPA. It is concluded that the dump material has to be subjected to stabilization to convert the hexavalent chromium to trivalent chromium to improve the efficiency of S/S and to comply with the prescribed limit of CPCB. Further studies are carried out in progress.

Conclusion

Studies were carried out to evaluate the efficacy of S/S process for pretreating the chromium bearing dump material prior to landfill. In the presence of chromium, S/S is observed to be non-effective. Therefore, conversion of hexavalent chromium dump material to convert into trivalent chromium and then subject to S/S process.

References

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