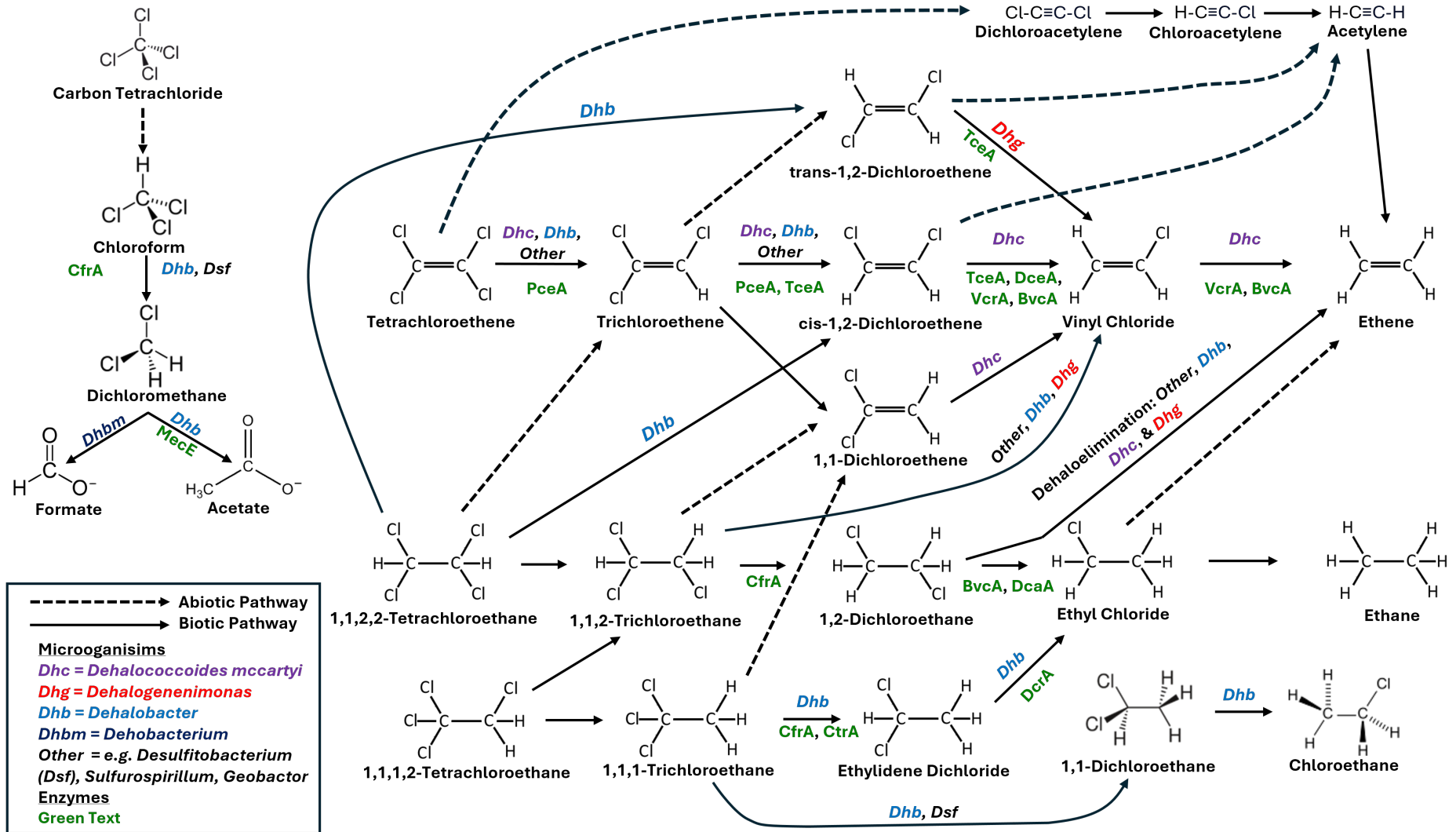


Abiotic & Biotic Pathways for Chlorinated Volatile Organic Compounds (CVOCs)



Adapted From: Judger et al., 2016; Wei et al, 2016; Grosten et al., 2010; Sakmaryova et al., 2017; Scheutz et al. 2011; Bowman et al, 2013; Grostern & Edward, 2006; Maness et al., 2012; Manchester et al., 2012; Tang et al., 2013; and Lee et al., 2011.

| Contaminants | Acronym | Aqueous Solubility (mg/L) | In Situ Sorption & Bioremediation | SEAR | Anaerobic Bioremediation | Aerobic Bioremediation | ISCR |
|---|--------------|---------------------------|-----------------------------------|------------------------|--|------------------------|---------------------------------|
| | | | NutriBind® | TASK™ ASB TASK™ Soy | EDS-Advanced™ EDS-ER™ EDS-ME™ EDS-QR™ Nutrimens® | TersOx™ | ZVI- ironGEL™ mZVI ISR-CI |
| Chlorinated Volatile Organic Compounds (CVOCs) | | | | | | | |
| Chlorinated Ethenes | | | | | | | |
| Tetrachloroethene (Perchloroethylene) | PCE | 150 | ✓ | ✓ | ✓ | | ✓ |
| Trichloroethene | TCE | 1,100 | ✓ | ✓ | ✓ | | ✓ |
| cis-1,2-Dichloroethene | cis-DCE | 3,500 | ✓ | ✓ | ✓ | | ✓ |
| trans-1,2-Dichloroethene | trans-DCE | 6,260 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1,1-Dichloroethene | 1,1-DCE | 3,344 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Vinyl chloride | VC | 2,763 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chlorinated Ethanes | | | | | | | |
| Hexachloroethane | HCA | 50 | ✓ | ✓ | ✓ | | ✓ |
| Pentachloroethane | PCA | 500 | ✓ | ✓ | ✓ | | ✓ |
| 1,1,1,2-Tetrachloroethane | 1,1,1,2-TeCA | 1,100 | ✓ | ✓ | ✓ | | ✓ |
| 1,1,2,2-Tetrachloroethane | 1,1,2,2-TeCA | 2,962 | ✓ | ✓ | ✓ | | ✓ |
| 1,1,2-Trichloroethane | 1,1,2-TCA | 4,394 | ✓ | ✓ | ✓ | | ✓ |
| 1,1,1-Trichloroethane | 1,1,1-TCA | 1,495 | ✓ | ✓ | ✓ | | ✓ |
| 1,2-Dichloroethane | 1,2-DCA | 8,606 | ✓ | ✓ | ✓ | | ✓ |
| 1,1-Dichloroethane | 1,1-DCA | 4,676 | ✓ | ✓ | ✓ | | ✓ |
| Chloroethane | CA | 5,700 | ✓ | ✓ | ✓ | | ✓ |
| Chlorinated Methanes | | | | | | | |
| Carbon tetrachloride | CT | 800 | ✓ | ✓ | ✓ | | ✓ |
| Chloroform | CF | 8,200 | ✓ | ✓ | ✓ | | ✓ |
| Dichloromethane | DCM | 13,200 | ✓ | ✓ | ✓ | | ✓ |
| Chloromethane | CM | 5,235 | ✓ | ✓ | ✓ | | ✓ |

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