



Land And  
Emergency Management  
5401R

EPA 510-B-16-005  
November 2016  
[www.epa.gov/ust](http://www.epa.gov/ust)

# **How To Evaluate Alternative Cleanup Technologies For Underground Storage Tank Sites**

**A Guide For Corrective  
Action Plan Reviewers**

## **Table Of Contents**

---

Chapter I: Introduction

Chapter II: Soil Vapor Extraction

Chapter III: Bioventing

Chapter IV: Biopiles

Chapter V: Landfarming

Chapter VI: Low-Temperature Thermal Desorption

Chapter VII: Air Sparging

Chapter VIII: Biosparging

Chapter IX: Monitored Natural Attenuation

Chapter X: In-Situ Groundwater Bioremediation

Chapter XI: Dual-Phase Extraction

Chapter XII: Enhanced Aerobic Bioremediation

Chapter XIII: Chemical Oxidation

Chapter XIV: Enhanced Anaerobic Oxidative Bioremediation

Appendix: Abbreviations And Definitions