

Step-by-Step  
Decision Making Process for Cleaning-up Hazardous Waste Sites  
and  
Case Study: Picillo Site, Coventry Rhode Island



Lee Smith  
20 May 1981  
Environmental Studies

## Table of Contents

A.	Introduction . . . . .	1
	I. Management Committee . . . . .	7
B.	Preliminary Assessment . . . . .	12
C.	In Depth Study . . . . .	15
	I. Mapping Leachates Plume . . . . .	16
	II. Geophysical Techniques . . . . .	17
	III. Electrical Resistivity . . . . .	18
	IV. Seismic Refraction . . . . .	19
	V. Test Drilling . . . . .	19
	VI. Economics . . . . .	23
	VII. Citizen Opinion/Political . . . . .	25
D.	Examine Alternatives . . . . .	27
	I. Contour Grading . . . . .	29
	II. Groundwater Controls . . . . .	32
	III. Bottom Sealing . . . . .	36
	IV. Plume Management . . . . .	37
	V. Excavation and Removals . . . . .	38
E.	Rank and Make the Decision . . . . .	43
	I. Cost Effectiveness . . . . .	43
	II. Making the Decision Itself . . . . .	44
F.	Choosing the Contractor . . . . .	48
G.	Job Finish . . . . .	51
H.	Disposal of Wastes . . . . .	53
	SECTION II, The Picillo Site . . . . .	54
J.	Abstract . . . . .	55
K.	Synopsis of the Picillo Site . . . . .	56

L.	Work at Picillo's . . . . .	58
M.	On Site Experience . . . . .	61
N.	Picillo Site Revised . . . . .	66
O.	Conclusion . . . . .	67
P.	Time Table . . . . .	70
Q.	References . . . . .	75

Appendix I

Appendix II