## CONTENTS

	Page
Introduction	1
Section I : Mohawk Rive Study – September and October 1959	3
Introduction to Study Area	3
Area Description	3
Hydrologic Data	3
Meteorologic Data	5
Geologic Data	7
Biologic Data	8
Water Uses	9
Sampling Stations	9
Sample Collection, Preparation, and Analysis	11
Water Samples	11
Bottom Sediments	12
Aquatic Biota	13
Artificial Media	16
Method used for Quantitating Gamma Spectra	17
Discussion of Results	17
Water	17
Bottom Sediments	19
Aquatic Biota	23
Artificial Media	28
Summary and conclusions	31
Section II: Clinch River Study – February 1960	37
Introduction to Study Area	37
Sampling Points, Collection, Preparation, and Analysis	39
Sampling Points and Sample Collections	39
Sample Preparation and Analysis	42
Results and Discussion of Results	45
Water	45
Bottom Sediments	47
Fish	50
Conclusions	55
Section III: Laboratory Studies	59
Experimental Methods	59
Results and Discussion	65
Summary and Conclusions	88
References	89