

TABLE OF CONTENTS

APPROVAL SHEET	2
PREFACE	3
TABLE OF CONTENTS	4
LIST OF FIGURES	6
LIST OF TABLES	7
LIST OF EQUATIONS	8
ABSTRACT	9
I. INTRODUCTION	1
I.1. Background of Study.....	1
I.2. Research Objectives	4
I.3. Significance of Study	5
I.4. Research Question.....	6
II. REVIEW OF LITERATURE	7
II.1. Environmental Impacts on Water Ecosystems.	7
II.2. Telukawur	14
II.3. Fish-Farming Activities In Teluk Awur	15
II.4. Macrobenthos.....	17
II.5. Coastal Environments for Microbenthic Species.....	18
<i>II.5.1 Harbours Around Coastal Areas</i>	19
<i>II.5.2 Mangrove Forests</i>	20
<i>II.5.3 Prawn Farm Refuse Shrimp Farm Outlet</i>	20
II.1. Abiotic Parameters in Macrobenthic Environments	21
<i>II.1.1 Acidity Level</i>	21
<i>II.1.2 Salinity</i>	21
<i>II.1.3 Electrical Conductivity (EC)</i>	22
<i>II.1.4 Dissolved Oxygen (DO)</i>	22
<i>II.1.5 Total Dissolved Solids (TDS)</i>	23
<i>II.1.6 Nephelometric Turbidity (NTU)</i>	23
<i>II.1.7 Water Hardness</i>	24
III. RESEARCH METHODS	25
III. 1.Site and Time of Study.....	25
III. 2.Field Data Location.....	25
III. 3.Timeframe Schedule of Sampling	26
III. 4.Sample Preparation and Identification	27
III. 5.Data Analysis of Macrozoobenthic	28
<i>III.5.1 Shannon-Wiener Index</i>	28
<i>III.5.2 The Evenness Index</i>	30
<i>III.5.3 Simpson's Dominance Index</i>	31
<i>III.5.4 The Sorensen Similarity Index</i>	32

III. 6. Data Analysis of Abiotic Environment versus Species Abundance.	33
IV. RESULT AND DISCUSSION.....	35
IV.1. Analysis of Difference of Macrozoobenthos Species.	35
IV.2. Analysis of Dominance of Species	38
IV.3. Analysis of Parameter Abiotic Versus Species Abundance.....	45
IV.4. Analysis of Sorensen Similarity Index	55
V. CONCLUSION.....	57
REFERENCES.....	60
ACKNOWLEDGEMENT	67