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Shellfish Growing Water Sanitary Survey of the Vancouver Island Coastline, Campbell River to Kye Bay, British Columbia, 1976

Surveillance Report
EPS 5-PR-76-6

Pacific Region
April 1976

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SHELLFISH GROWING WATER SANITARY SURVEY
OF THE VANCOUVER ISLAND COASTLINE,
CAMPBELL RIVER TO KYE BAY,
BRITISH COLUMBIA, 1976

by

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and

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Environmental Protection Service
Pacific Region

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ABSTRACT

A shellfish water quality sanitary survey, covering 45 kilometres of coastline between the mouth of the Campbell River and Kye Bay on Vancouver Island, was conducted from February 2 to March 2, 1976.

The purpose of the survey was to bacteriologically classify previously unsurveyed intertidal waters as contaminated or uncontaminated, and to reassess a shellfish closure invoked following a 1973 survey which preceded installation of the Campbell River District Municipality sewage treatment plant.

Pollution sources contributing to bacteriological contamination of the foreshore waters are identified. The performance of the sewage treatment plant with respect to physical, chemical, and bacteriological parameters was evaluated concurrently under an Environmental Protection Service contract and published as Surveillance Report EPS 5-PR-76-5.

Recommendations are made which will decrease the extent of the existing shellfish closure and result in closure of a portion of the previously unsurveyed coastline.

RÉSUMÉ

Il a été mené une étude sur la salubrité des eaux servant à la culture des mollusques et des crustacés du 2 février au 2 mars 1976. Cette étude couvre 45 kilomètres de littoral entre l'embouchure de la rivière Campbell et la baie Kye, dans l'île Vancouver.

L'étude avait pour objet de classer, du point de vue bactériologique, comme contaminées ou non contaminées des eaux intercotidales qui n'avaient pas fait l'objet d'une étude auparavant, aussi de réévaluer l'espace pour les mollusques et les crustacés invoqué à la suite d'une étude menée en 1973, laquelle a précédé l'installation de la station d'épuration des eaux usées dans la municipalité du district de Campbell River.

Les sources de pollution qui contribuent à la contamination bactériologique des eaux aux environs des grèves sont précisées. On a aussi évalué, en même temps, le rendement de la station d'épuration des eaux usées quant aux paramètres physiques, chimiques et bactériologiques, en vertu d'un contrat du Service de protection de l'environnement. Cette évaluation a été publiée comme rapport de surveillance SPE 5-PR-76-5.

Il a été fait des recommandations visant à réduire l'espace actuel susdit, ce qui amènera la fermeture d'une partie du littoral qui n'avait pas fait l'objet d'une étude précédente.

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CONCLUSIONS

1. Sample stations 4, 5, and 6, immediately south of the Campbell River Pollution Control Centre, did not meet the shellfish growing water bacteriological standard due to pollution contributed by the 6th Avenue storm drain, the yellow house on the beach in the 300 block Island Highway, and the unsewered homes along the Island Highway.
2. The intermittently high fecal coliform levels experienced at sample stations 13 and 14, located immediately north of the mouth of Simms Creek, were most likely caused by contamination in Simms Creek originating from the Pardo Verde Mobile Home Park, septic tank - absorption field seepage from homes on Rockland Road, and landwash.
3. Sample stations 21 and 22, at Willow Point, exceeded the shellfish growing water standard due, most probably, to animal fecal pollution in Willow Creek.
4. Three of the five sample stations in Kye Bay did not meet the shellfish growing water standard. Seepage from the septic tank - absorption fields in the area through highly permeable soil to the foreshore is the suspected source. There was no evidence of the contamination reaching the extensive clam beds located approximately 500 to 1000 metres offshore.
5. The existence of 4 sewage pump stations on the municipal trunk sewer line along the Island Highway, between the Pollution Control Centre and Willow Point, is a potential health risk, since overflows can enter the foreshore waters, three of them through drainage ditches and one of them by way of Simms Creek.

RECOMMENDATIONS

1. The present contaminated area 13-5 Schedule J closure of Vancouver Island foreshore, which is defined as "that portion of the tidal foreshore in Area 13 from Middle Point of Duncan Bay to Shelter Point north of Oyster Bay," should be amended to read:

"That portion of the tidal foreshore in Area 13 from Middle Point, north of Duncan Bay, to that point in the foreshore midway between Pinecrest and Evergreen Roads."

2. The following should be added to Schedule J of the British Columbia Fishery Regulations, and are illustrated in Figures 1 and 2:
 - a. Area 13-8 - "The tidal foreshore lying 1000 metres northward from the mouth of Simms Creek, and 500 metres southward from the mouth of Simms Creek."
 - b. Area 13-9 - "Those waters lying within a 300 metre radius from the mouth of Willow Creek."
 - c. Area 14-4 - "The waters and tidal foreshore of Kye Bay lying within a 500 metre radius from the foot of Lazo Road."
3. The overflow warning lights at the municipal sewer lift stations should be supplemented with alarm systems connected to a 24 hour manned control station, such as the Fire Hall.
4. The responsible provincial and municipal authorities should be informed of the suspected and identified pollution sources listed below:
 - a. 6th Avenue storm drain - fecal contamination;
 - b. Yellow house on beach in 300 block Island Highway - septic tank - absorption field seepage;
 - c. Unsewered homes on Island Highway - seepage.

- d. Simms Creek - lift station overflow from Pardo Verde Mobile Home Park sewer connection.
- e. Simms Creek - septic tank - absorption field seepage from homes on Rockland Road, landwash from livestock enclosures near the west end of Rockland Road.
- f. Willow Creek - animal fecal pollution - landwash from pastureland.
- g. Kye Bay - general seepage from septic tank - absorption field serving approximately 40 residents in the area. The soil in this area is highly permeable on top of hardpan.

1 INTRODUCTION

The Campbell River area was last surveyed (Fisheries Statistical Areas 13 and 14) in 1973 by the Pollution Abatement Branch as part of a report that included Campbell River, Quadra Island, Cortes Island, and West Redonda Island (1). At the time of the 1973 survey, the District of Campbell River was discharging untreated sewage at an average $5,000 \text{ m}^3$ per day (1,100,000 gpd), the health hazard of which was unknown at the time. In addition, there were several other local sources of pollution in the survey area.

Since the last survey, the Campbell River District Municipality has installed and started up a secondary sewage treatment plant to replace the former raw sewage outfall. This necessitated a reassessment of the shellfish growing water quality in this area. In addition, since the previous survey covered such a large area with relatively few sample stations, it was felt that a more intensive survey of the Campbell River area alone was desirable. Consequently, personnel of the Shellfish Water Quality Program of the Environmental Protection Service, Pacific Region, conducted a bacteriological water quality survey of the Campbell River area from the mouth of the Campbell River to Kye Bay, from February 2 to March 2, 1976.

This report is complemented by a concurrent sanitary survey of the Campbell River District Municipality presented in Surveillance Report EPS 5-PR-76-5 (2), which should be consulted for appropriate sanitary survey details. Shellfish Water Quality Program personnel conducted the sanitary inspection of sewage disposal facilities outside the municipal boundary, with the findings reported herein.

2

SAMPLE STATION LOCATIONS

The object of the survey was to examine and classify the shellfish growing water quality of utilizable resource areas that could be subject to contamination from a variety of sources, including sewage outfalls, septic tank seepage, and runoff from pastureland. Shellfish resource information was obtained from the Fisheries and Marine Service, Environment Canada.

Most of the sampling was restricted to the area from the sewage treatment plant south to Kye Bay. However, sample stations were located at the mouth of the Campbell River and off Tyee Spit to determine the bacteriological influence of the river discharge. Two stations were established mid channel in Discovery Passage, and one off the southern tip of Quadra Island, to obtain background bacterial levels.

Twenty-two stations were established within the sewerered area from the sewage treatment plant south to Ocean Grove Road to test the integrity of the new sewage collection system, and to assess the influence of storm water and pastureland drainage.

From Ocean Grove Road south to Kye Bay, which lies south of the sewerered area, stations were established on the basis of shellfish resource and coincident with housing density to assess the extent of pollution from faulty on-site residential sewage disposal systems, and to assess runoff from pastureland. The hinterland in this area is extensively grazed by many animals in areas such as the UBC Research Farm just north of the Oyster River. All told, 34 stations were established in the unsewered area.

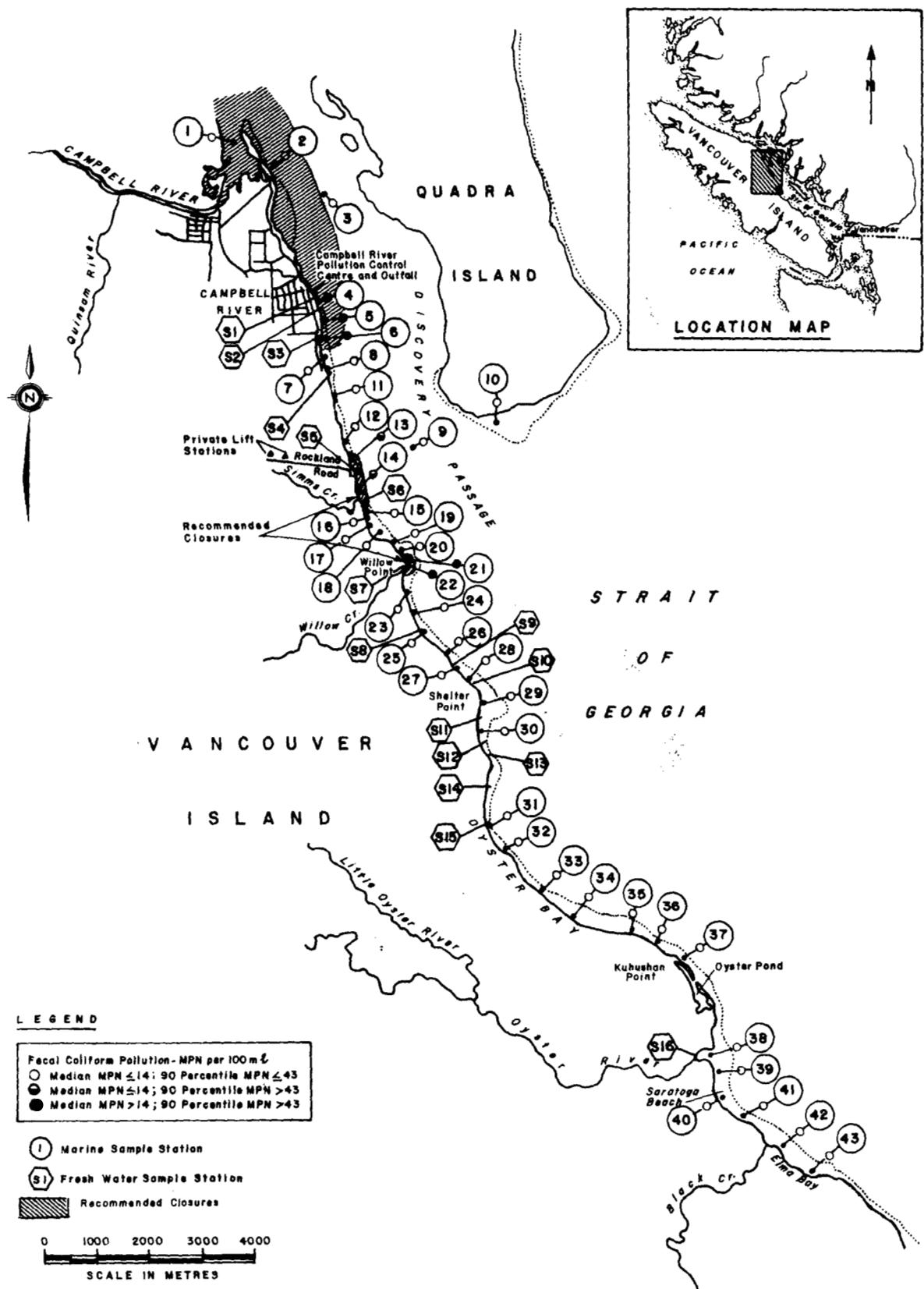


FIGURE I CAMPBELL RIVER TO OYSTER RIVER - SAMPLE STATIONS AND RECOMMENDED CLOSURES

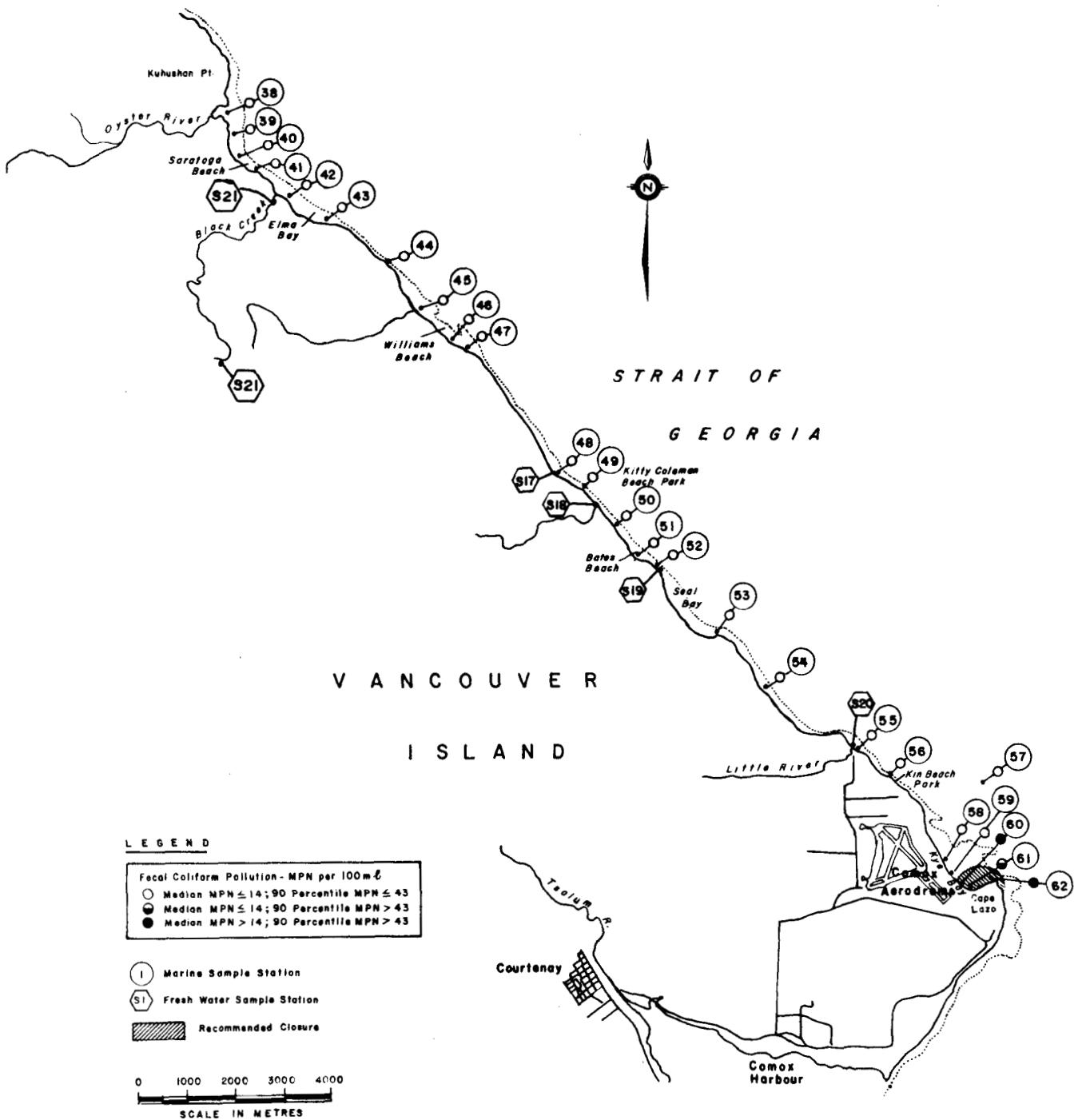


FIGURE 2 OYSTER RIVER TO KYE BAY - SAMPLE STATIONS AND RECOMMENDED CLOSURE

3 FIELD PROCEDURES AND METHODS

Sampling stations were selected and a bacteriological and physical water-testing program was developed to assess the shellfish growing water quality and the source of pollutants.

3.1 Bacteriological Sampling and Analyses

All water samples for bacteriological analyses were collected in sterile 170 or 340 cc wide-mouth bottles approximately 15 to 30 cm below the water surface. The water depth at collection points over shellfish beds did not exceed 1.2 metres. Samples were collected by boat or on foot, and stored in coolers at temperatures not exceeding 10°C until processed. Analyses were carried out in the Environmental Protection Service mobile laboratory, located at the sampling area, and were performed within five hours of collection.

The fecal coliform MPN per 100 ml was determined using the multiple tube fermentation technique (at least 3 decimal dilutions of 5 tubes each), as described in Part 407C of the 13th edition of Standard Methods for the Examination of Water and Wastewater (3). Incubation was for 24 ± 2 hours in a water bath equipped with a circulation device, and maintained at $44.5 \pm 0.2^\circ\text{C}$. Presumptive culture medium used was Bacto-Lauryl Tryptose Broth; fecal coliform determinations were made using Bacto-EC medium.

All freshwater samples were analyzed for fecal coliforms and fecal streptococci using membrane filter techniques as described in Parts 408B and 409B of Standard Methods. The volume of sample filtered was not less than 100 ml, and appropriate dilutions were made in order that the number of colonies per plate normally ranged between 20 and 80. Colonies were counted under 10 power magnification. Bacto-mFC Agar was used for the fecal coliform determination, and Bacto-mEnterococcus Agar was used for the fecal streptococci determinations. Factory-sterilized Sartorius (13756) membrane filters having a 0.45 micron pore size were used in all analyses. Fecal coliform plates were incubated at $44.5 \pm 0.2^\circ\text{C}$ for

24 hours in water-tight plastic bags submerged in a waterbath. Fecal streptococci plates were incubated at $35 \pm 0.5^{\circ}\text{C}$ for 48 hours in a gravity convection incubator.

IMViC analyses of bacterial isolates were performed as described in Part 410B of Standard Methods. All test media used was Bacto brand. The test reagent used in the Indole test was Kovac's Reagent (BDH).

3.2 Physical and Chemical Testing Equipment and Analyses

Temperature and salinity measurements of all stations were made using a standard immersible Celsius thermometer and an American Optical temperature-compensated refractometer (Catalogue number 10419). Wind speeds were determined with a Casella hand-held wind meter and a Telcor series 210 electronic wind speed/direction indicator.

Tide data presented is that for Campbell River, and the rainfall data was obtained from the meteorological station operated by Pacific Western Airlines at the Campbell River Municipal Airport.

4 RESULTS AND DISCUSSION

Sample station locations are shown in Figures 1 and 2, and marine and freshwater sample station locations are described in Appendices I and II, respectively. Daily bacteriological and physical analyses results and recorded elemental data for the 62 marine sample stations are tabulated in Appendix III, and the daily results and recorded data for the 20 freshwater sample stations are tabulated in Appendix IV. Fecal coliform MPN data for marine stations is summarized in Table 1, and fecal coliform and fecal streptococci membrane filtration data is summarized in Table 2.

The results have been interpreted and the growing waters classified using the following bacteriological criteria: In order that an area be considered bacteriologically safe for the harvesting of shellfish, the fecal coliform MPN of the water must not exceed 14/100 ml, and not more than 10% of the samples normally exceed 43/100 ml for a 5 tube decimal dilution test in those portions of the area most probably exposed to fecal contamination during the most unfavourable hydrographic and pollution conditions.¹

A total of 484 marine and 119 freshwater samples was collected for bacteriological analysis during the survey period. A minimum of six samples was collected for each marine sample station.

The bacteriological results presented in Table 1 show that 52 of the marine sample stations met the approved growing water standard. Of the remaining 10 sample stations which were classified as unacceptable, 7 exceeded the standard at the median, and 3 exceeded the standard at the 90 percentile level.

¹ This report expresses the 10 percent limit in terms of a 90 percentile MPN which must not exceed 43/100 ml.

TABLE 1 SUMMARY OF FECAL COLIFORM MPN DATA FOR SHELLFISH
GROWING WATER SAMPLES

Sample Station	Number of Samples	MPN Range	Fecal Coliform MPN/100 ml	
			Median	90 Percentile
1	6	<2-8	2.0	4.4
2	6	<2-49	13.0	39.4
3	6	<2-5	3.0	5.0
4	7	5-79	21.0	58.0
5	8	4-79	17.0	79.0
6	12	<2-49	15.0	31.0
7	11	<2-49	8.0	12.5
8	12	<2-33	5.0	21.0
9	6	<2-8	<2.0	5.6
10	6	<2-2	<2.0	2.0
11	11	<2-33	5.0	10.5
12	10	<2-49	5.0	11.0
13	6	5-540	5.0	223.8
14	13	<2-110	8.0	76.3
15	6	<2-8	5.0	8.0
16	15	2-350	7.0	33.0
17	11	2-49	8.0	22.0
18	7	<2-8	2.0	5.2
19	10	<2-17	3.5	17.0
20	10	<2-23	5.0	11.0
21	6	2-49	17.0	39.4
22	13	2-920	49.0	79.0
23	6	2-11	2.0	8.6
24	11	<2-130	2.0	13.9
25	10	<2-46	2.0	11.0
26	9	<2-5	2.0	5.0
27	11	<2-49	2.0	13.5
28	11	<2-350	8.0	32.0
29	10	<2-17	6.5	11.0
30	9	<2-8	<2.0	5.3
31	9	<2-7	<2.0	2.5
32	9	<2-5	<2.0	5.0
33	6	<2-8	3.5	8.0
34	9	<2-33	2.0	24.0
35	6	<2-8	<2.0	6.2
36	7	<2-13	2.0	11.6
37	6	<2-2	<2.0	2.0
38	6	<2-5	2.0	3.2
39	6	<2-7	2.0	4.0
40	6	<2-2	<2.0	2.0
41	6	<2-8	<2.0	4.4
42	6	<2-33	3.5	17.4
43	6	<2-5	2.0	4.4
44	6	<2-2	<2.0	2.0
45	6	<2-33	3.0	16.2
46	6	<2-5	<2.0	3.2
47	6	<2-7	<2.0	4.0
48	6	<2-4	2.0	4.0
49	6	<2-5	2.0	3.2
50	6	<2-11	<2.0	5.6
51	6	<2-<2	<2.0	<2.0
52	6	<2-2	<2.0	2.0
53	6	<2-2	2.0	2.0
54	6	<2-2	<2.0	2.0
55	6	<2-17	<2.0	9.8
56	6	2-7	3.5	5.8
57	6	<2-33	3.5	21.0
58	6	<2-34	6.0	27.4
59	9	<2-70	7.0	40.7
60	8	2-350	21.0	182.0
61	8	<2-170	12.5	146.0
62	6	<2-49	25.0	49.0

TABLE 2 SUMMARY OF FECAL COLIFORM AND FECAL STREPTOCOCCI MEMBRANE FILTRATION DATA FOR FRESHWATER SAMPLES

Sample Station	Mean Flow m^3/sec	Mean Fecal Coliform (F.C.) Count/100 ml	Mean Population Equivalent (P.E.)	Mean Fecal Streptococci (F.S.) Count/100 ml	FC:FS Ratio		
S1	3.98×10^{-2}	9077	(7) ¹	9.7	902	(7) ¹	10.10
S2	7.1×10^{-4}	10	(6)	20×10^{-4}	7.2	(5)	1.40
S3	6.7×10^{-3}	16	(5)	3.0×10^{-3}	13	(5)	1.20
S4	4.1×10^{-3}	1.4	(5)	1.0×10^{-4}	0.8	(5)	1.80
S5	2.8×10^{-4}	30	(6)	2.0×10^{-3}	2.8	(5)	10.60
S6	7.5×10^{-1}	84.0	(9)	2.0	46	(9)	1.80
S7	6.9×10^{-1}	29	(9)	0.6	40	(9)	0.74
S8	3.03×10^{-2}	107	(7)	8.76×10^{-2}	169	(5)	0.63
S9	3.3×10^{-2}	4.5	(6)	4.1×10^{-3}	6.2	(6)	0.72
S10	2.8×10^{-2}	39	(6)	2.95×10^{-2}	11	(6)	3.70
S11	9.8×10^{-2}	137	(7)	0.4	17	(7)	8.20
S12	8.4×10^{-4}	10	(5)	2.2×10^{-4}	3.8	(5)	2.50
S13	3.76×10^{-1}	33	(7)	3.3×10^{-1}	27	(7)	1.20
S14	2.58×10^{-1}	38	(6)	2.65×10^{-1}	60	(5)	0.64
S15	5.38×10^{-3}	476	(6)	6.9×10^{-2}	870	(5)	0.55
S16	1.06×10^{-1}	1	(2)	2.86×10^{-1}	1.5	(2)	0.60
S17*	1.2×10^{-2}	3.6	(3)	1.2×10^{-3}	2.3	(3)	1.60
S18*	8.04×10^{-1}	103	(4)	2.24	235	(4)	4.40
S19*	1.35×10^{-1}	13	(4)	4.7×10^{-2}	9.3	(4)	1.30
S20*	1.08	100	(4)	2.9	42	(4)	2.40

¹ Denotes number of samples

* Data on mean flows is from one measurement only

Biochemical identification (IMViC) of 39 bacterial isolates from selected sample stations showed that 33 of these isolates were Escherichia coli (Variety I or II). All isolates taken from sample stations 59 to 62 (Kye Bay) were identified as E. coli Variety I.

Both fecal coliform and fecal streptococci analyses were performed on all freshwater samples to see if a distinction could be made as to the source of fecal contamination, i.e., animal, human, or both. Geldreich and Kenner (4) have found that fecal streptococci densities were significantly higher than fecal coliform densities in all warm-blooded animal feces, except for that of humans. In human feces, the FC:FS ratio was 4.4, whereas in other warm-blooded animals, the ratio was less than 0.7. Using these ratios, the type of contamination to the sample stations could be roughly determined. It should be noted that these ratios are by no means conclusive, and indicate only a possible trend. Two species of fecal streptococci are ubiquitous in nature and are, therefore, not considered to be good indicators of fecal pollution. Two other species, Streptococcus bovis and S. equinus, are specific to animals and are the best indicators of fecal pollution from animals. However, it was impractical to routinely identify such organisms in the field.

The intensity of rainfall during the survey period (113.8 mm) was 31% less than the 30 year average (165.6 mm) for the same period (Figure 3). Precipitation was greatest during the periods February 8-14 and 24-28.

4.1 Discovery Passage and the Municipality of Campbell River

The area to the north of the sewage treatment plant was not extensively sampled due to the limited shellfish resource and the 400 foot Schedule J closures governing existing wharves. All northern sample stations (1, 2, and 3) were for reference only, and met the shellfish growing water quality standard. Station 2 was

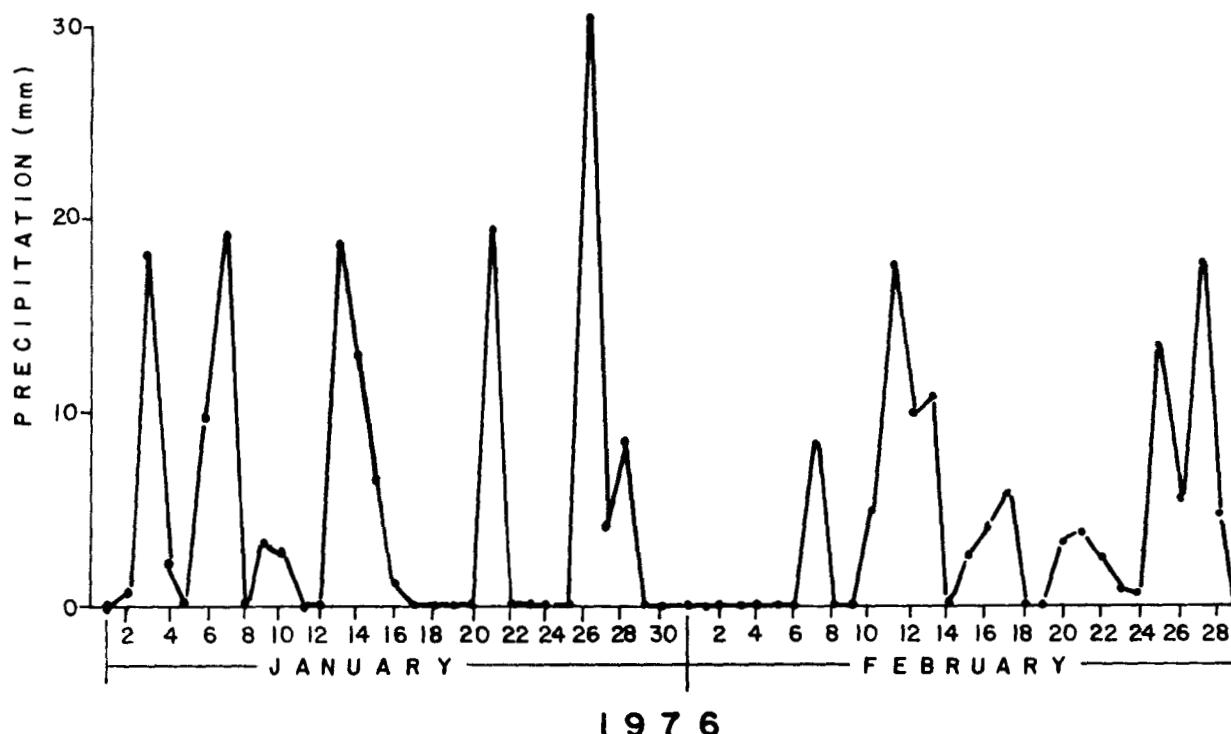
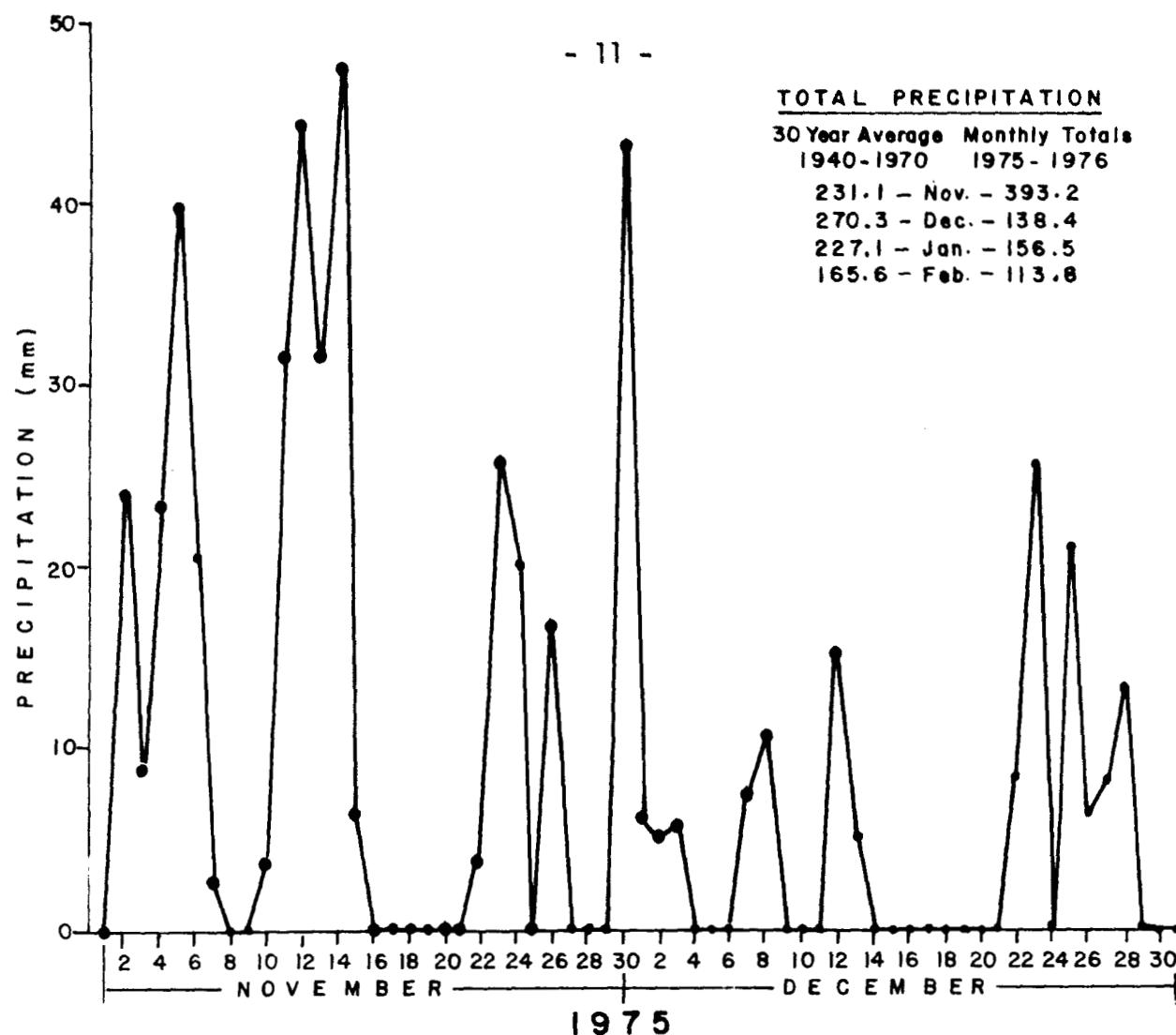


FIGURE 3 TOTAL PRECIPITATION - CAMPBELL RIVER

established to determine the influence, if any, from the Campbell River, and proved to be marginal in shellfish growing water quality.

South of the Campbell River Water Pollution Control Centre (WPCC), sample stations 4, 5, and 6 did not meet the standard at the median level, with fecal coliform MPNs of 21/100 ml, 17/100 ml, and 15/100 ml, respectively. There are three suspected sources of contamination. The first is the 6th Avenue storm drain, which exhibited a mean MF fecal coliform count of 9077.1/100 ml, equivalent to a population equivalent of 9.1 (sample station S1).¹ The second suspect source is the yellow house on the beach in the 300 block Island Highway (sample station 5). The ground at this location was saturated, and seepage onto the foreshore was in evidence. The third probable source would be the houses along the Island Highway that are not yet sewered. All runoff in the area drains to the foreshore.

{ It would appear that sewage effluent from the WPCC does not influence the foreshore along this stretch of coastline. A dye study of the WPCC (2) indicated that, due to the nature of the currents in Discovery Passage, the effluent has little effect on the bacteriological water quality of the nearby foreshore area.

Sample stations 13 and 14 exhibited 90 percentile MPN values of 223.8/100 ml and 76.3/100 ml, respectively, thereby exceeding the standard. Intermittent pollution is indicated when the standard is exceeded at the 90 percentile level. The source of contamination in this area is Simms Creek (S6), with a population equivalent of 2.0. The FC:FS ratio of 1.8 suggests both animal and human fecal pollution in this input. Sources of pollution to Simms Creek include sewage overflows due to a faulty pump at the Pardo Verde Mobile Home Park (identified by visual observation), septic tank - absorption field seepage from several unsewered houses located on Rockland Road, and landwash from several small livestock enclosures located near the west end of Rockland Road.

Sample stations 21 and 22 did not meet the growing water

¹ A population equivalent of one is equal to 3.2×10^{10} fecal coliforms/person/day (2).

standards, with median fecal coliform MPN's of 17/100 ml, and 49/100 ml, respectively. The source of contamination appears to be Willow Creek, which exhibited a FC:FS ratio of 0.74, indicating primarily animal fecal pollution. Landwash from several small hobby farms located on Erickson Road, adjacent to Willow Creek, would explain the fecal coliform counts and the FC:FS ratio observed in the samples taken.

There are four sewage lift stations on the municipal sewer line along this foreshore which, in the event of an extended operational or power failure, can overflow raw sewage across the foreshore via storm ditches.

4.2 Ocean Grove Road South to Kye Bay

Sample stations 37-62 were located along this coastline to monitor the shellfish growing waters.

Just in from Kuhushan Point lies the UBC Research Farm, which maintains 150 head of dairy cows. All runoff from the animal compounds and grazing area drains to two 60' by 40' exfiltration lagoons, which are each about three feet deep. Sample stations to either side of the Point were of acceptable growing water quality, thus indicating the integrity of the lagoons.

Both the sanitary and bacteriological survey failed to identify any significant sources of fecal contamination to the receiving waters southward to Kye Bay. There was evidence of moderate fecal pollution in S18 and S20, which exhibited population equivalents of 2.24 and 2.9, respectively; however, there was no deterioration of water quality as evidenced by the marine station results.

The only location outside the sewered area that did not meet the growing water standard during the survey was Kye Bay. Sample stations 60 and 62 exceeded the shellfish growing water standard with median fecal coliform MPN's of 21/100 ml and 25/100 ml. Stations 60, 61, and 62 all exceeded the standard at the 90 percentile level. At the time of the survey, there were 40 families living in this area. The British Columbia Soil Survey (5) classifies this area as loamy

sand and gravelly loamy sand, the pertinent characteristic of which is its high permeability. Water samples taken at low tide (and, consequently, at considerable distance from the shore) demonstrated acceptable water quality, indicating the seepage did not reach the extensive clam beds located along the shoal in Kye Bay.

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ACKNOWLEDGEMENTS

B. Kay, Bacteriologist, R. Schroeder, Bacteriological Technician, and P.A. Gilmour, Bacteriological Technician, conducted the bacteriological analyses in the Environmental Protection Service Mobile Laboratory, located in the survey area. Mr. Kay compiled the bacteriological data.

D. Arney, Biological Technician, and K. Cooper, Engineering Technician, conducted the sanitary survey and carried out the sampling program.

Molluscan resource information was obtained from Fisheries and Marine Service personnel stationed in Campbell River.

T. Tevendale, Senior Project Engineer, directed the survey planning and contributed substantially to the final narrative.

APPENDIX I

MARINE SAMPLE STATION LOCATIONS

APPENDIX I MARINE SAMPLE STATION LOCATIONS

Sample Station	Latitude	Longitude	Location
1	50° 02'53"N	125° 15'22"W	Mouth of Campbell River
2	50° 02'38"N	125° 14'44"W	Loading dock off Tyee Spit
3	50° 02'17"N	125° 13'51"W	Midway on ferry route to Quadra Island
4	50° 10'12"N	125° 14'05"W	Off 581 Island Highway
5	50° 01'07"N	125° 14'03"W	Yellow house on beach in 600 block
6	50° 00'29"N	125° 13'58"W	Off cedar house north of Seaside Motel
7	50° 00'18"N	125° 14'49"W	100 yards north of Seaside Motel
8	50° 00'09"N	125° 14'46"W	Off Driftwood Beach Mobile Home and Trailer Park
9	50° 00'00"N	125° 12'36"W	Southern entrance to Discovery Passage
10	49° 56'36"N	125° 10'49"W	Off Sand Cliffs southern tip Quadra Island
11	50° 00'00"N	125° 13'45"W	Off the Austrian Chalet
12	49° 49'14"N	125° 13'25"W	Off Big Rock Motel
13	49° 49'11"N	125° 13'25"W	Off the big rock
14	49° 48'56"N	125° 13'19"W	Off Marina Motor Motel
15	49° 48'35"N	125° 13'09"W	Off 1854 Island Highway
16	49° 48'32"N	125° 13'09"W	Off foot of Simms Road
17	49° 48'27"N	125° 13'05"W	Off foot of Hilchey Road
18	49° 48'28"N	125° 12'57"W	Centre of Willow Bay
19	49° 48'20"N	125° 12'44"W	Off foot of Adams Road
20	49° 48'15"N	125° 12'36"W	Off foot of Larwood Road
21	49° 48'06"N	125° 12'25"W	Yellow and brown house
22	49° 47'59"N	125° 12'25"W	Off foot of Erickson Road
23	49° 57'54"N	125° 12'26"W	Off Alderry Trailer Park
24	49° 57'44"N	125° 12'29"W	Off foot of Barlow Road
25	49° 57'30"N	125° 12'19"W	Off foot of Dahl Road
26	49° 57'17"N	125° 12'10"W	Off foot of Maryland Road
27	49° 57'04"N	125° 11'47"W	Off foot of Ocean Grove Road
28	49° 56'54"N	125° 11'35"W	Off foot of Shell Road
29	49° 56'26"N	125° 11'00"W	Off foot of Heard Road
30	49° 56'07"N	125° 10'08"W	Off Shelter Bay Resort
31	49° 54'57"N	125° 10'56"W	Off foot of Anton Road
32	49° 54'44"N	125° 10'36"W	Off Appian Way
33	49° 54'11"N	125° 09'55"W	Off foot of Sailor Road

(continued)

APPENDIX I MARINE SAMPLE STATION LOCATIONS (continued)

Sample Station	Latitude	Longitude	Location
34	49° 53'52"N	125° 09'25"W	Off foot of Iron River Logging Road
35	49° 53'45"N	125° 08'48"W	100 yards northwest of Bennett's Point Resort
36	49° 53'40"N	125° 08'00"W	Off foot of Oyster Garden Road
37	49° 53'21"N	125° 07'18"W	Off Salmon Point Resort
38	49° 52'18"N	125° 07'03"W	Mouth of Oyster River
39	49° 52'04"N	125° 06'51"W	N.W. Saratoga Bay
40	49° 51'40"N	125° 06'38"W	Saratoga Bay
41	49° 51'29"N	125° 06'12"W	S.E. Saratoga Bay
42	49° 51'14"N	125° 05'45"W	Off Miracle Beach
43	49° 50'55"N	125° 05'16"W	Brown house at Elma Bay
44	49° 50'49"N	125° 04'34"W	S.E. of Elma Bay
45	49° 50'27"N	125° 03'58"W	S.E. of Elma Bay
46	49° 50'02"N	125° 03'26"W	Off resort at Williams Beach
47	49° 49'43"N	125° 02'56"W	S.E. of Williams Beach
48	49° 47'38"N	125° 00'18"W	N.W. of Kitty Coleman Beach Park
49	49° 47'22"N	124° 59'42"W	Off Kitty Coleman Beach Park
50	49° 47'00"N	124° 59'12"W	S.E. Kitty Coleman Beach Park
51	49° 46'38"N	124° 58'52"W	Off white cottages at Bates Beach
52	49° 46'33"N	124° 58'30"W	S.E. end of Bates Beach
53	49° 45'37"N	124° 57'15"W	S.E. end of Seal Bay
54	49° 45'00"N	124° 56'23"W	N.W. end Little River Area
55	49° 44'10"N	124° 54'20"W	N.W. of Kin Beach Park
56	49° 43'51"N	124° 53'44"W	N.W. of Kin Beach Park
57	49° 43'06"N	124° 52'22"W	Centre of Kye Bay
58	49° 42'41"N	124° 52'42"W	N.W. end of Kye Bay
59	49° 42'32"N	124° 52'27"W	Kye Bay
60	49° 42'26"N	124° 52'10"W	S.E. end of Kye Bay
61	49° 42'30"N	124° 51'45"W	S.E. end of Kye Bay
62	49° 42'30"N	124° 51'39"W	S.E. end of Kye Bay

APPENDIX II

FRESHWATER SAMPLE STATION LOCATIONS

APPENDIX II FRESHWATER SAMPLE STATION LOCATIONS

Sample Station	Location
S1	6th Ave. storm drain south of sewage treatment plant
S2	Storm drain foot of 3rd Avenue
S3	Storm drain foot of Evergreen Road
S4	Storm drain north of Driftwood Beach Trailer Park
S5	Storm drain foot of Rockland Road
S6	Mouth of Simms Creek
S7	Mouth of Willow Creek
S8	Storm ditch foot of Dahl Road
S9	Storm ditch north of Washington Drive
S10	Creek north of Heard Road
S11	Creek south of Heard Road
S12	Storm ditch south of Eagles Road
S13	Creek south of McGimpsey Road
S14	Creek north of Seawave Road
S15	Storm ditch foot of Anton Road
S16	Mouth of Oyster River
S17	Left Road
S18	Kitty Coleman Beach
S19	Stream next to trailer park at Bates Beach
S20	Mouth of Little River
S21	Black Creek at mouth and Island Highway Crossing

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND
SAMPLING CONDITIONS FOR MARINE SAMPLES

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 1

Location: Mouth of Campbell River

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1530	1420	2.6	3.5	Nil	NW @ 8	0.2	<2
		1850	3.7					
4	0955	0740	4.4	3.0	Nil	Nil	1.5	2
		1500	2.4					
5	0905	0755	4.4	2.7	Nil	Nil	6.0	2
		1530	2.2					
6	0850	0825	4.3	3.0	Nil	Nil	1.5	2
		1600	2.0					
9	1040	0940	4.1	3.8	Trace	Nil	1.5	<2
		1840	1.6					
10	0910	0545	3.7	3.5	4.6	Nil	2.0	8
		1035	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 2

Location: Tye Spit

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 3	1545	1420	2.6	7.0	Nil	NW @ 12	25.0
		1850	3.7				<2
4	1005	0740	4.4	7.0	Nil	NW @ 4	26.5
		1500	2.4				49
5	0905	0755	4.4	6.8	Nil	Nil	27.5
		1530	2.2				13
6	0900	0825	4.3	6.8	Nil	Nil	27.5
		1600	2.0				33
9	1045	0940	4.1	7.4	Trace	S @ 2	27.5
		1840	1.6				<2
10	0915	0545	3.7	7.2	4.6	Nil	25.5
		1035	4.1				13

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 3

Location: Midway along ferry route to Quadra Island

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1550	1420	2.6	7.2	Nil	NW @ 10	21.5	5
		1850	3.7					
4	1010	0740	4.4	7.0	Nil	NW @ 5	29.0	<2
		1500	2.4					
5	0910	0755	4.4	6.8	Nil	W @ 2	28.5	4
		1530	2.2					
6	0905	0825	4.3	6.9	Nil	Nil	28.0	2
		1600	2.0					
9	1050	0940	4.1	7.2	Trace	Nil	27.5	<2
		1840	1.6					
10	0915	0545	3.7	7.0	4.6	Nil	27.0	5
		1035	4.1					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 4

Location: Off 581 Island Highway - Cedar House

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1650	1420	2.6	7.0	Ni1	-	27.5	79
		1850	3.7					
5	0840	0755	4.4	6.6	Ni1	Ni1	27.5	7
		1530	2.2					
6	1125	0825	4.3	7.1	Ni1	Ni1	27.5	49
		1600	2.0					
9	1320	0940	4.1	7.2	Trace	Ni1	27.5	7
		1840	1.6					
10	1140	1035	4.1	7.0	4.6	NW @ 1	27.5	33
		1925	1.5					
11	0835	0715	3.7	7.2	17.5	SE @ 30	26.0	5
		1145	4.1					
13	1205	0955	3.5	7.5	10.7	SE @ 10-13	27.5	21
		1410	4.2					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 5

Location: Yellow House on Beach in 300 Block

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1655	1420	2.6	7.0	Ni1	-	26.5	79
		1850	3.7					
4	0915	0740	4.4	6.7	Ni1	Ni1	27.5	79
		1500	2.4					
5	0845	0755	4.4	6.6	Ni1	Ni1	27.5	17
		1530	2.2					
6	1115	0825	4.3	6.9	Ni1	Ni1	27.5	4
		1600	2.0					
9	1330	0940	4.1	7.1	Trace	Ni1	26.5	17
		1840	1.6					
10	1130	1035	4.1	7.0	4.6	Ni1	27.5	33
		1925	1.5					
11	0845	0715	4.1	7.0	17.5	SE @ 25	27.0	8
		1145	1.3					
13	1155	0955	3.5	7.6	10.7	SE @ 2-12	27.5	11
		1410	4.2					

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APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 6

Location: Off Cedar House on Beach North of Seaside Motel

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 3	1705	1420	2.6	7.0	Ni1	-	27.5
		1850	3.7				2
4	0930	0740	4.4	6.6	Ni1	27.5	49
		1500	2.4				- 28 -
5	0910	0755	4.4	6.7	Ni1	27.5	17
		1530	2.2				
6	1105	0825	4.3	7.0	Ni1	N @ 2	28.0
		1600	2.0				2
9	1345	0940	4.1	6.9	Trace	Ni1	26.5
		1840	1.6				<2
10	1120	1035	4.1	6.8	4.6	NW @ 2	28.0
		1925	1.5				23
11	0855	0715	3.7	6.9	17.5	SE @ 20	26.5
		1145	4.1				17
13	1140	0955	3.5	7.6	10.7	SE @ 10	27.5
		1410	4.2				8

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 6 (continued)

Location: Off Cedar House on Beach North of Seaside Motel

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 16	1620	1240	2.7	7.8	3.8	NW @ 1	-	23
		1705	4.2					
17	1625	1310	2.3	7.2	5.6	SE @ 10-12	27.5	33
		1800	4.1					
23	1610	1025	4.1	7.7	0.8	SE @ 3-5	28.5	13
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 7

Location: 100 Yards North of Seaside Motel on Island Hwy.

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1715	1420	2.6	7.0	Nil	-	28.5	5
		1850	3.7					
4	0935	0740	4.4	5.3	Nil	27.5		49
		1500	2.4					
5	0915	0755	4.4	6.0	Nil	28.0		8
		1530	2.2					
6	1055	0825	4.3	6.4	Nil	N @ 2	27.5	2
		1600	2.0					
9	1350	0940	4.1	7.2	Trace	Nil	27.5	2
		1840	1.6					
10	1110	1035	4.1	6.8	4.6	NW @ 1	28.0	8
		1925	1.5					
11	0905	0715	3.7	7.2	17.5	SE @ 15-20	26.0	13
		1145	4.1					

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Continued...

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 8

Location: Off Driftwood Beach Mobile Home & Trailer Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	0948	0710	4.5	6.1	Ni1	NW @ 10	26.0	11
		1420	2.6					
4	0920	0740	4.4	5.7	Ni1	W @ 3	27.5	33
		1500	2.4					
5	0920	0755	4.4	5.5	Ni1	Ni1	28.0	7
		1530	2.2					
6	1050	0825	4.3	5.8	Ni1	N @ 2	27.5	<2
		1600	2.0					
9	1400	0940	4.1	7.3	Trace	Ni1	27.0	<2
		1840	1.6					
10	1105	1035	4.1	6.8	4.6	NW @ 3	28.0	22
		1925	1.5					
11	0910	0715	4.1	6.9	17.5	SE @ 25	27.5	5
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 7 (continued)

Location: 100 Yards North of Seaside Motel on Island Hwy.

Date (1976)	Sample Time	Tide Conditions		Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 13	1130	0955	3.5	7.7	10.7	SE @ 5	28.5
		1410	4.2				<2
17	1620	1310	2.3	7.5	5.6	SE @ 7-10	27.5
		1800	4.1				8
23	1600	1025	4.1	7.8	0.8	Ni1	28.0
		1830	1.2				<2

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 8 (continued)

Location: Off Driftwood Beach Mobile Home & Trailer Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 13	1125	0955	3.5	7.8	10.7	SE @ 8-11	28.0	4
		1410	4.2			-		
16	1625	1240	2.7	7.8	3.8	NW @ 2	-	17
		1705	4.2					33 -
17	1615	1310	2.3	7.4	5.6	SE @ 6-10	24.5	5
		1800	4.1					
23	1555	1025	4.1	7.8	0.8	Nil	27.5	<2
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 9

Location: Southern Entrance to Discovery Passage

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1600	1420	2.6	7.1	NIL	NW @ 16	26.5	<2
		1850	3.7					
4	1015	0740	4.4	6.3	Ni1	NW @ 5	27.5	<2
		1500	2.4					
5	0920	0755	4.4	7.0	Ni1	NW @ 1	28.5	<2
		1530	2.2					
6	0910	0825	4.3	7.0	Ni1	Ni1	28.0	8
		1600	2.0					
9	1055	0940	4.1	7.0	Trace	W @ 2	25.0	<2
		1840	1.6					
10	0920	0545	3.7	7.0	4.6	W @ 2	27.5	4
		1035	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 10

Location: Southern Tip of Quadra Island

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1610	1420	2.6	6.7	Nil	W @ 10	25.5	<2
		1850	3.7					
4	1025	0740	4.4	6.5	Nil	W @ 3	27.5	<2
		1500	2.4					
5	0930	0755	4.4	6.2	Nil	NW @ 2	27.5	2
		1530	2.2					
6	0915	0825	4.3	6.4	Nil	Nil	26.5	2
		1600	2.0					
9	1100	0940	4.1	6.7	Trace	NW @ 2	27.5	<2
		1840	1.6					
10	0930	0545	3.7	6.8	4.6	NE @ 10	28.5	<2
		1035	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 11

Location: Off the Austrian Chalet

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	0954	0710	4.5	6.0	Ni1	NW @ 10	26.5	5
		1420	2.6					
4	0945	0740	4.4	5.0	Ni1	Ni1	27.0	11
		1500	2.4					
5	0925	0755	4.4	5.4	Ni1	Ni1	28.5	5
		1530	2.2					
6	1025	0825	4.3	5.0	Ni1	N @ 5	26.5	2
		1600	2.0					
10	1050	1035	4.1	6.7	4.6	NW @ 3	28.0	<2
		1925	1.5				28.0	6
11	0915	0715	3.7	6.8	17.5	SE @ 30-35	28.0	33
		1145	4.1					
13	1120	0955	3.5	7.8	10.7	SE @ 8-12	28.5	5
		1410	4.2					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 11 (continued)

Location: Off the Austrian Chalet

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 16	1630	1240	4.7	7.8	3.8	NW	-	2
		1705	4.2					
17	1555	1310	2.3	7.8	5.6	SE @ 11-13	28.0	2
		1800	4.1					
23	1530	1025	4.1	7.7	0.8	SE @ 3-5	27.0	2
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 12

Location: Opposite Big Rock Motel

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
	Time	Height (m)					
Feb. 3	1220	0710	4.5	7.0	Ni1	NW @ 10	27.0
		1420	2.6				<2
4	0955	0740	4.4	5.6	Ni1	Ni1	29.0
		1500	2.4				11
5	0930	0755	4.4	5.7	Ni1	Ni1	28.0
		1530	2.2				5
6	1020	0825	4.3	6.9	Ni1	NW @ 2	27.5
		1600	2.0				5
9	1415	0940	4.1	7.2	Trace	Ni1	27.5
		1840	1.6				2
10	1045	1035	4.1	6.8	4.6	NW @ 5	28.5
		1925	1.5				<2
11	0940	0715	3.7	6.5	17.5	SE @ 25	27.5
		1145	4.1				49

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 12 (continued)

Location: Opposite Big Rock Motel

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 13	1110	0955	3.5	7.8	10.7	SE @ 7	28.5	8
		1410	4.2					
17	1550	1310	2.3	7.7	5.6	SE @ 13-16	28.5	<2
		1800	4.1					
23	1525	1025	4.1	7.7	0.8	SE @ 3-7	27.5	7
		1830	1.2					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 13

Location: The Big Rock on Beach South of Big Rock Motel

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 20	1615	1555	1.4	6.7	3.0	E @ 10-17	27.5	13
		2135	3.7					
23	1520	1025	4.1	7.7	0.8	SE @ 2-5	27.5	540
		1830	1.2					- 40 -
24	0840	0740	3.5	7.2	0.5	Ni1	28.5	5
		1135	4.0					
25	1130	0855	3.4	6.5	13.2	SE @ 5	27.5	5
		1250	3.9					
26	1040	1005	3.2	7.0	5.1	Ni1	28.5	2
		1400	3.9					
27	1245	1050	3.0	6.5	17.5	NW @ 3-5	-	4
		1500	3.9					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 14

Location: Marina Motor Hotel

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1000	0710	4.5	6.4	Ni1	NW @ 10-20	27.5	7
		1420	2.6					
4	1000	0740	4.4	6.2	Ni1	Ni1	27.5	70
		1500	2.4					
5	0940	0755	4.4	5.5	Ni1	NW @ 1	28.5	8
		1530	2.2					
6	1010	0825	4.3	7.0	Ni1	NW @ 2	28.0	8
		1600	2.0					
9	1415	0940	4.1	7.2	Trace	Ni1	27.5	7
		1840	1.6					
10	1640	1035	4.1	6.8	4.6	NW @ 4	28.5	5
		1925	1.5					
11	0945	0715	3.7	6.2	17.5	SE @ 30	27.0	70
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 14 (continued)

Location: Marina Motor Hotel

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1530	1310	4.1	7.7	9.7	E @ 5	25.5	79
		2110	1.2					
13	1105	0955	3.5	7.5	10.7	SE @ 9-12	28.0	11
		1410	4.2					
17	1545	1310	2.3	7.5	5.6	SE @ 15-17	28.5	42
		1800	4.1					-
23	1515	1025	4.1	7.8	0.8	SE @ 5-7	27.5	11
		1830	1.2					
24	0850	0740	3.5	7.2	0.5	SE @ 2	28.5	<2
		1135	4.0					
25	1125	0855	3.4	6.0	13.2	SE @ 5	27.5	5
		1250	3.9					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 15

Location: Off 1854 Island Highway

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 25	1115	0855	3.4	6.5	13.2	Ni1	28.0	5
		1250	3.9					
26	1035	1005	3.2	7.0	5.1	Ni1	28.5	8
		1400	3.9					
26	1405	1400	3.9	7.5	5.1	Ni1	-	4
		2135	1.4					
27	1240	1050	3.0	6.5	17.5	NW @ 3-5	-	8
		1500	3.9					
28	1150	1135	2.8	6.0	4.6	W @ 3	27.5	5
		1600	4.0					
29	1215	1205	2.6	3.5	Ni1	W @ 5-7	27.5	<2
		1630	3.9					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 16

Location: Foot of Simms Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1005	0710	4.5	6.8	Ni1	NW @ 15-20	28.0	7
		1420	2.6					
4	1005	0740	4.4	7.0	Ni1	Ni1	29.0	33
		1500	2.4					
5	0945	0755	4.4	6.6	Ni1	NW @ 1	28.5	22
		1530	2.2					
6	1005	0825	4.3	7.0	Ni1	Ni1	28.0	5
		1600	2.0					
9	1420	0940	4.1	7.2	Trace	Ni1	27.0	11
		1840	1.6					
10	1015	0645	3.7	6.8	4.6	NW @ 5	28.5	13
		1035	4.1					
11	0955	0715	3.7	6.2	17.5	SE @ 10	27.5	27
		1145	4.1					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 16 (continued)

Location: Foot of Simms Road

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 12	1535	1310	4.1	7.7	9.7	SE @ 4	28.0
		2110	1.2				2
13	1100	0955	3.5	7.4	10.7	SE @ 3	28.5
		1410	4.2				5
16	1635	1240	2.7	7.5	3.8	Ni1	-
		1705	4.2				7
17	1540	1310	2.3	7.5	5.6	SE @ 7-10	29.0
		1800	4.1				350
18	1445	1405	2.0	8.0	Trace	SE @ 3-4	22.5
		1905	4.0				5
19	1350	0720	4.7	-	Ni1	-	5
		1455	1.6				
20	1555	1555	1.4	6.3	3.0	E @ 11-17	27.5
		2135	3.7				33
23	1500	1025	4.1	7.7	0.8	SE @ 5-7	28.5
		1830	1.2				13

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 17

Location: Foot of Hillhey Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1010	0710	4.5	7.0	Ni1	NW @ 20-25	28.5	6
		1420	2.6					
4	1010	0740	4.4	6.7	Ni1	Ni1	28.5	2
		1500	2.4					
5	1000	0755	4.4	6.5	Ni1	Ni1	28.0	11
		1530	2.2					
6	1000	0825	4.3	6.1	Ni1	Ni1	29.0	5
		1600	2.0					
9	1425	0940	4.1	7.4	Trace	Ni1	27.5	8
		1840	1.6					
10	1010	0545	3.7	6.7	4.6	NW @ 5	28.0	13
		1035	4.1					
11	1010	0715	3.7	6.3	17.5	SE @ 8	27.5	49
		1145	4.1					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 17 (continued)

Location: Foot of Hillhey Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1540	1310	4.1	7.6	9.7	SE @ 4	27.5	5
		2110	1.2					
13	1050	0955	3.5	6.9	10.7	S @ 1-8	26.5	23
		1410	4.2					
17	1530	1310	2.3	7.7	5.6	SE @ 4-7	28.0	2
		1800	4.1					
23	1455	1025	4.1	7.8	0.8	SE @ 2-7	27.5	13
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 18

Location: Willow Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 4	1030	0740	4.4	6.7	Nil	W @ 3	28.0	<2
		1500	2.4					
5	0945	0755	4.4	6.0	Nil	SW @ 3	27.5	2
		1530	2.2					
6	0925	0825	4.3	6.4	Nil	Nil	28.5	-
		1600	2.0					
9	1105	0940	3.6	7.1	Trace	NE @ 1	27.5	8
		1840	4.1					
10	0935	0545	3.7	7.0	4.6	E @ 5	27.5	4
		1035	4.1					
18	0905	0640	4.7	7.1	Trace	Nil	25.5	2
		1405	2.0					
19	0955	0720	4.7	5.5	Nil	E @ 3	-	2
		1435	1.6					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 19

Location: Foot of Adams Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1018	0710	4.5	6.0	Ni1	NW @ 15-20	28.0	<2
		1420	2.6					
4	1015	0740	4.4	4.6	Ni1	NW @ 2	28.5	17
		1500	2.4					
5	1005	0755	4.4	4.5	Ni1	Ni1	28.0	<2
		1530	2.2					
6	0955	0825	4.3	5.4	Ni1	Ni1	28.5	<2
		1600	2.0					
9	1430	0940	4.1	7.4	Trace	Ni1	28.0	2
		1840	1.6					
10	1005	0545	3.7	6.8	4.6	Ni1	28.5	11
		1035	4.1					
11	1015	0715	3.7	6.2	17.5	SE @ 8	26.0	17
		1145	4.1					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 19 (continued)

Location: Foot of Adams Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	1045	0955	3.5	7.0	10.7	Ni1	25.5	5
		1410	4.2					
16	1640	1240	2.7	7.1	3.8	Ni1		5
		1705	4.2					
17	1525	1310	2.3	7.6	5.6	Ni1	28.0	2
		1800	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 20

Location: Foot of Larwood Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1024	0710	4.5	6.3	Nil	NW @ 20-25	28.5	11
		1420	2.6					
4	1025	0740	4.4	5.7	Nil	NW @ 2	26.5	<2
		1500	2.4					
5	1010	0755	4.4	6.2	Nil	Nil	28.0	2
		1530	2.2					
6	0950	0825	4.3	6.2	Nil	Nil	28.5	5
		1600	2.0					
9	1445	0940	4.1	7.5	Trace	Nil	24.5	<2
		1840	1.6					
10	0955	0545	3.7	6.8	4.6	Nil	28.0	7
		1035	4.1					
11	1020	0715	3.7	6.2	17.5	SE @ 7	25.0	23
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 20 (continued)

Location: Foot of Larwood Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	1035	0955	3.5	6.6	10.7	SE @ 2-6	24.5	9
		1410	4.2					
16	1645	1240	2.7	6.8	3.8	N11	-	5
		1705	4.2					
17	1520	1310	2.3	7.8	5.6	SE @ 2-4	28.0	2
		1800	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 21

Location: Between the foot of Erickson and Larwood Roads

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 23	1445	1025	4.1	7.1	0.8	SE @ 2	19.5	17
		1830	1.2					
24	0910	0740	3.5	6.9	0.5	NW	21.5	17
		1135	4.0					
25	1025	0855	3.4	5.5	13.2	NW	26.5	33
		1250	3.9					
26	1030	1005	3.2	6.5	5.1	NW	28.0	11
		1400	3.9					
27.	1235	1050	3.0	6.0	17.8	NW @ 7	-	49
		1500	3.9					
28	1145	1135	2.8	6.0	4.6	W @ 3	26.0	2
		1600	4.0					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 22

Location: Foot of Erickson Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1030	0710	4.5	6.0	Ni1	NW @ 28-35	28.5	4
		1420	2.6					
4	1030	0740	4.4	5.5	Ni1	NW @ 2	23.5	13
		1500	2.4					
5	1020	0755	4.4	4.8	Ni1	Ni1	12.0	33
		1530	2.2					
6	0945	0825	4.3	5.4	Ni1	Ni1	25.5	2
		1600	2.0					
9	1450	0940	4.1	5.8	Trace	Ni1	8.5	33
		1840	1.6					
10	0950	0545	3.7	5.7	4.6	Ni1	21.5	79
		1035	4.1					
11	1040	0715	3.7	4.2	17.5	SE @ 20	1.5	49
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 22 (continued)

Location: Foot of Erickson Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind Speed (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1545	1310	4.1	5.8	9.7	SE @ 5	25.5	33
		2110	1.2					
13	1025	0955	3.5	4.6	10.7	S @ 7-10	4.5	49
		1410	4.2					
17	1510	1310	2.3	7.0	5.6	SE @ 7-12	23.0	- 55 -
		1800	4.1					
23	1440	1025	4.1	6.4	0.8	Ni1	9.0	49
		1830	1.2					
24	0920	0740	3.5	3.4	0.5	SE @ 7	0.0	4.9
		1135	4.0					
25	1030	0855	3.4	6.5	13.2	Ni1	0.0	79
		1250	3.9					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 23

Location: Off Alderry Trailer Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 23	1430	1025	4.1	7.7	0.8	Ni1	28.0	7
		1830	1.2					
24	0925	0740	3.5	7.0	0.5	SE @ 1	28.5	11
		1135	4.0					
25	1020	0855	3.4	6.5	13.2	Ni1	27.5	2
		1250	3.9					
26	1025	1005	3.2	7.0	5.1	Ni1	27.5	2
		1400	3.9					
27	1230	1050	3.0	6.0	17.8	NW @ 3-5	-	2
		1500	3.9					
28	1140	1135	2.8	6.5	4.6	Ni1	27.5	2
		1600	4.0					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 24

Location: Foot of Barlow Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1040	0710	4.5	6.0	Ni1	NW @ 15	28.5	4
		1420	2.6					
4	1035	0740	4.4	4.9	Ni1	W @ 2	28.5	<2
		1500	2.4					
5	1030	0755	4.4	5.5	Ni1	Ni1	28.0	<2
		1530	2.2					
6	0940	0825	4.3	5.0	Ni1	Ni1	29.5	<2
		1600	2.0					
9	1500	0940	4.1	7.2	Trace	Ni1	28.0	2
		1840	1.6					
10	0945	0545	3.7	6.7	4.6	Ni1	28.5	8
		1035	4.1					
11	1045	0715	3.7	6.3	17.5	SE @ 17	28.0	13
		1145	4.1					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 24 (continued)

Location: Foot of Barlow Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 13	1020	0955	3.5	6.8	10.7	SE @ 8	27.5	14
		1410	4.2					
16	1650	1240	2.7	6.9	3.8	Ni1	-	2
		1705	4.2					
17	1505	1310	2.3	8.0	5.6	SE @ 9	28.0	130
		1800	4.1					
23	1420	1025	4.1	7.7	0.8	Ni1	28.0	2
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 25

Location: Foot of Dahl Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1045	0710	4.5	6.1	Ni1	NW @ 10-15	27.5	2
		1420	2.6					
4	1045	0740	4.4	5.5	Ni1	Ni1	27.5	2
		1500	2.4					
5	1035	0755	4.4	5.5	Ni1	Ni1	27.5	<2
		1530	2.2					
6	0930	0825	4.3	5.8	Ni1	S @ 1	28.5	<2
		1600	2.0					
9	1505	0940	4.1	7.0	Trace	Ni1	21.0	11.
		1840	1.6					
10	0940	0545	3.7	6.9	4.6	Ni1	28.5	9
		1035	4.1					
11	1050	0715	3.7	6.2	17.5	SE @ 20	27.0	8
		1145	4.1					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 25 (continued)

Location: Foot of Dahl Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 13	1015	0955	3.5	6.7	10.7	SE @ 7	26.5	46
		1410	4.2					
17	1455	1310	2.3	7.9	5.6	SE @ 4-8	27.5	2
		1800	4.1					
23	1415	1025	4.1	7.9	0.8	NW	28.5	<2
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 26

Location: Foot of Maryland Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1055	0710	4.5	6.0	Ni1	NW @ 20-25	28.5	5
		1420	2.6					
4	1050	0740	4.4	5.7	Ni1	NW @ 5	27.5	<2
		1500	2.4					
5	1045	0755	4.4	5.0	Ni1	Ni1	27.5	2
		1530	2.2					
6	0925	0825	4.3	5.9	Ni1	S @ 1	28.5	<2
		1600	2.0					
9	1510	0940	4.1	7.4	Trace	Ni1	25.5	<2
		1840	1.6					
10	0935	0545	3.7	6.8	4.6	Ni1	28.5	5
		1035	4.1					
11	1055	0715	3.7	6.2	17.5	SE @ 20	28.0	2
		1145	4.1					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 26 (continued)

Location: Foot of Maryland Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	1010	0955	3.5	6.7	10.7	SE @ 4	27.5	4
		1410	4.2					
17	1450	1310	2.3	9.5	5.6	SE @ 2-5	27.0	2
		1800	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 27

Location: Foot Ocean Grove Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1100	0710	4.5	6.0	Nil	NW @ 15-20	28.5	4
		1420	2.6					
4	1055	0740	4.4	5.6	Nil	NW @ 1	28.0	<2
		1500	2.4					
5	1100	0755	4.4	6.0	Nil	Nil	28.5	<2
		1530	2.2					
6	0920	0825	4.3	5.8	Nil	S @ 1	29.0	<2
		1600	2.0					
9	1530	0940	4.1	7.2	Trace	Nil	28.5	2
		1840	1.6					
10	0930	0545	3.7	6.9	4.6	Nil	29.5	14
		1035	4.1					
11	1105	0715	3.7	6.2	17.5	SE @ 10	29.0	2
		1145	4.1					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 27 (continued)

Location: Foot Ocean Grove Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	1005	0955	3.5	6.8	10.7	NW	28.5	9
		1410	4.2					
16	1655	1240	2.7	6.9	3.8	NW	-	49
		1705	4.2					
17	1440	1310	2.3	7.8	5.6	SE @ 2	28.0	2
		1800	4.1					
23	1405	1025	4.1	7.9	0.8	N @ 1	28.5	5
		1830	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 28

Location: Foot of Shell Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1118	0710	4.5	6.0	Nil	NW @ 20	28.5	7
		1420	2.6					
4	1110	0740	4.4	5.5	Nil	NW @ 3	27.5	13
		1500	2.4					
5	1105	0755	4.4	5.3	Nil	Nil	28.5	5
		1530	2.7					
6	0915	0825	4.3	5.4	Nil	S @ 1	29.5	2
		1600	2.0					
9	1540	0940	4.1	7.6	Trace	Nil	28.5	33
		1840	1.6					
10	0925	0545	3.7	6.9	4.6	Nil	28.5	23
		1035	4.1					
11	1115	0715	3.7	6.2	17.5	SE @ 15	28.5	350
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 28 (continued)

Location: Foot of Shell Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	0955	0955	3.5	6.8	10.7	SE @ 4	27.5	13
		1410	4.2					
17	1435	1310	2.3	10.1	5.6	S @ 1	27.0	2
		1800	4.1					
23	1400	1025	4.1	8.2	0.8	Ni1	27.5	<2
		1830	1.2					
24	0935	0740	3.5	6.4	0.5	Ni1	28.5	8
		1135	4.0					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 28

Location: Foot of Shell Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 3	1118	0710	4.5	6.0	Nil	NW @ 20	28.5	7
		1420	2.6					
4	1110	0740	4.4	5.5	Nil	NW @ 3	27.5	13
		1500	2.4					
5	1105	0755	4.4	5.3	Nil	Nil	28.5	5
		1530	2.7					
6	0915	0825	4.3	5.4	Nil	S @ 1	29.5	2
		1600	2.0					
9	1540	0940	4.1	7.6	Trace	Nil	28.5	33
		1840	1.6					
10	0925	0545	3.7	6.9	4.6	Nil	28.5	23
		1035	4.1					
11	1115	0715	3.7	6.2	17.5	SE @ 15	28.5	350
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 28 (continued)

Location: Foot of Shell Road

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 13	0955	0955	3.5	6.8	10.7	SE @ 4	27.5
	1410	1410	4.2				13
17	1435	1310	2.3	10.1	5.6	S @ 1	27.0
		1800	4.1				2
23	1400	1025	4.1	8.2	0.8	Ni1	27.5
		1830	1.2				<2
24	0935	0740	3.5	6.4	0.5	Ni1	28.5
		1135	4.0				8

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 29

Location: Foot of Heard Road

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 3	1130	0710	4.5	6.0	Ni1	NW @ 15	28.0
		1420	2.6				8
4	1120	0740	4.4	5.5	Ni1	NW @ 3	<2
		1500	2.4				
5	1110	0755	4.4	6.4	Ni1	Ni1	28.5
		1530	2.2				2
6	0910	0825	4.3	5.7	Ni1	S @ 1	28.5
		1600	2.0				<2
9	1555	0940	4.1	7.4	Trace	Ni1	28.5
		1840	1.6				
10	0920	0545	3.7	6.0	4.6	Ni1	28.5
		1035	4.1				17
11	1125	0715	3.7	6.2	17.5	SE @ 20	28.5
		1145	4.1				2

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 29 (continued)

Location: Foot of Heard Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 13	0945	0400	4.4	6.8	10.7	SE @ 2-5	27.5	11
		0955	3.5					
16	1700	1240	2.7	7.0	3.8	Nil	-	8
		1705	4.2					
17	1425	1310	2.3	8.3	5.6	S @ 2-9	25.5	5
		1800	4.1					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 30

Location: Off Shelter Bay Resort

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1210	0710	4.5	6.9	Ni1	NW @ 10-15	28.5	2
		1420	2.6					
4	1125	0740	4.4	6.8	Ni1	NW @ 3	27.5	<2
		1500	2.4					
5	1120	0755	4.4	7.2	Ni1	Ni1	27.5	2
		1530	2.2					
6	0905	0825	4.3	6.1	Ni1	S @ 1	28.5	<2
		1600	2.0					
9	1600	0940	4.1	7.5	Trace	Ni1	29.0	<2
		1840	1.6					
10	0910	0545	3.7	6.9	4.6	Ni1	28.5	<2
		1035	4.1					
11	1130	0715	3.7	6.2	17.5	SE @ 20	28.0	<2
		1145	4.1					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 30 (continued)

Location: Off Shelter Bay Resort

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	0940	0400	4.4	6.9	10.7	SE @ 3	27.5	8
		0955	3.5					
17	1410	1310	2.3	7.6	5.6	S @ 2	25.5	5
		1800	4.1					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 31

Location: Foot Anton Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1215	0710	4.5	6.9	Ni1	NW @ 10-15	28.5	<2
4	1140	0740	4.4	6.8	Ni1	NW @ 2	27.5	7
		1500	2.4					
5	1125	0755	4.4	7.0	Ni1	Ni1	27.5	<2
		1530	2.2					
6	0955	0825	4.3	4.9	Ni1	S @ 1	28.5	2
		1600	2.0					
9	1610	0940	4.1	7.5	Trace	Ni1	25.5	<2
		1840	1.6					
10	0905	0545	3.7	6.7	4.6	Ni1	28.5	<2
		1035	4.1					
11	1135	0715	3.7	6.2	17.5	Ni1	28.5	<2
		1145	4.1					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 31 (continued)

Location: Foot Anton Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	0930	0400	4.4	6.9	10.7	SE @ 4	28.5	2
		0955	3.5					
17	1405	1310	2.3	7.8	5.6	Ni1	27.5	<2
		1800	4.1					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 32

Location: Appian Way

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 3	1148	0710	4.5	6.5	Nil	NW @ 15	27.5	<2
		1420	2.6					
4	1145	0740	4.4	6.4	Nil	NW @ 1	27.5	<2
		1500	2.4					
5	1135	0755	4.4	6.5	Nil	Nil	27.5	<2
		1530	2.2					
6	0945	0825	4.3	5.0	Nil	Nil	28.0	2
		1600	2.0					
9	1615	0940	4.1	7.2	Trace	Nil	26.5	<2
		1840	1.6					
10	0900	0545	3.7	6.9	4.6	Nil	28.5	<2
		1035	4.1					
11	1140	0715	3.7	6.2	17.5	Nil	28.5	5
		1145	4.1					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 32 (continued)

Location: Appian Way

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 13	0925	0400	4.4	7.0	10.7	Ni1	29.0	5
		0955	3.5					
17	1400	1310	2.3	7.8	5.6	Ni1	27.5	<2
		1800	4.1					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 33

Location: Off Sailor Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1555	1310	4.1	6.9	9.7	Ni1	26.5	2
		2110	1.2					
13	0915	0400	4.4	6.3	10.7	SE @ 2	25.0	5
		0955	3.5					
17	1350	1310	2.3	7.2	5.6	Ni1	25.0	8
		1800	4.1					
18	1500	1405	2.0	8.0	Trace	Ni1	-	<2
		1905	4.0					
19	1405	0720	4.7	-	Ni1	Ni1	27.0	<2
		1455	1.6					
20	1540	0750	4.6	6.5	3.0	E @ 8-16	26.0	8
		1555	1.4					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 34

Location: Opposite Iron River Logging Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1600	1310	4.1	6.4	9.7	SE @ 2	28.5	<2
		2110	1.2					
13	0905	0400	4.4	6.8	10.7	SE @ 3	28.5	2
		0955	3.5					
17	1340	1310	2.3	8.0	5.6	Ni1	27.0	23
		1800	4.1					
18	1510	1405	2.0	8.5	Trace	SE @ 2-8	26.5	22
		1905	4.0					
19	1415	0720	4.7	-	Ni1	-	-	13
		1455	1.6					
20	1530	0750	4.6	6.0	3.0	E @ 15-20	27.5	33
		1555	1.4					
23	1235	1025	4.1	8.1	0.8	NW @ 4	27.0	<2
		1830	1.2					

Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 34 (continued)

Location: Opposite Iron River Logging Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 24	1000	0740	3.5	6.9	0.5	SE @ 3	28.5	<2
		1135	4.0					
25	1010	0855	3.4	6.5	13.2	NW	27.5	2
		1250	3.9					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 35

Location: 100 Yards NW of Bennett's Point Resort

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1605	1310	4.1	7.0	9.7	Ni1	28.0	<2
		2110	1.2					
13	0905	0400	4.4	6.8	10.7	SE @ 1	27.5	<2
		0955	3.5					
17	1335	1310	2.3	7.8	5.6	Ni1	25.5	5
		1800	4.1					
18	1520	1405	2.0	8.4	Trace	Ni1	28.0	<2
		1905	4.0					
19	1420	0720	4.7	-		Ni1	-	<2
		1455	1.6					
20	1520	0750	4.6	6.5	3.0	E @ 15-20	26.0	8
		1555	1.4					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 36

Location: Foot of Oyster Garden Road

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1615	1310	4.1	7.1	9.7	Ni1	28.5	<2
		2110	1.2					
13	0855	0400	4.4	6.4	10.7	SE @ 1	26.5	11
		0955	3.5					
17	1325	1310	2.3	9.0	5.6	Ni1	23.5	<2
		1800	4.1					
18	1530	1405	2.0	8.5	Trace	SE @ 2-5	27.5	<2
		1905	4.0					
19	1430	0720	4.7	-		Ni1	-	13
		1455	1.6					
20	1505	0750	4.6	6.6	3.0	E @ 15-20	25.5	8
		1555	1.4					
25	1520	1250	3.9	-	13.2	-	-	2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 37

Location: Off Salmon Point Resort

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 16	1200	0530	4.6	7.9	3.8	N @ 4	27.0
		1240	2.7				<2
18	0925	0640	4.7	7.2	Trace	W @ 1	26.5
		1405	2.0				<2
19	1020	0720	4.7	7.0	N@1	NW @ 5	-
		1455	1.6				<2
20	0930	0750	4.6	6.8	3.0	E @ 2	27.0
		1555	1.4				<2
24	1705	1135	4.0	7.2	0.5	S @ 4	27.0
		1935	1.2				<2
25	1530	1250	3.9	7.0	13.2	SW @ 3	28.0
		2040	1.3				2

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APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 38

Location: Mouth of Oyster River

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	0925	0830	3.7	6.4	9.7	S @ 2	24.5	5
		1310	4.1					
16	1210	0530	4.6	7.7	3.8	N @ 6	28.0	<2
		1240	2.7					
18	0930	0640	4.7	7.2	Trace	S @ 2	24.5	2
		1405	2.0					
19	1025	0720	4.7	7.0	Nil	N @ 5	-	2
		1455	1.6					
20	0940	0750	4.6	6.5	3.0	SE @ 3	27.0	<2
		1555	1.4					
25	1540	1250	3.9	3.8	13.2	SE @ 2	19.5	2
		2040	1.3					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 39

Location: Saratoga Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	0935	0830	3.7	6.9	9.7	NW @ 1	28.0	7
		1310	4.1					
16	1215	0530	4.6	7.6	3.8	N @ 7	27.0	2
		1240	2.7					
18	0935	0640	4.7	7.3	Trace	S @ 1	27.0	<2
		1405	2.0					
19	1030	0720	4.7	7.0	NW	N @ 2	-	2
		1455	1.6					
20	0945	0750	4.6	6.8	3.0	SE @ 3	26.5	<2
		1555	1.4					
25	1550	1250	3.9	6.9	13.2	S @ 2	28.5	<2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 40

Location: Saratoga Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	0940	0830	3.7	6.7	9.7	SE @ 1	27.5	2
		1310	4.1					
16	1220	0530	4.6	7.8	3.8	NE @ 5	28.0	<2
		1240	2.7					
18	0940	0640	4.7	7.2	Trace	S @ 1	26.5	<2
		1405	2.0					
19	1035	0720	4.7	7.0	Ni1	NE @ 1	-	<2
		1455	1.6					
20	0950	0750	4.6	7.0	3.0	SE @ 2	27.5	<2
		1555	1.4					
25	1550	1250	3.9	6.8	13.2	Ni1	28.0	<2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 41

Location: Saratoga Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 12	0950	0830	3.7	6.8	9.7	SE @ 1	28.0	<2
		1310	4.1					
16	1225	0530	4.6	7.6	3.8	NE @ 5	20.5	8
		1240	2.7					
18	0945	0640	4.7	7.3	Trace	NW @ 1	28.0	<2
		1405	2.0					
19	1035	0720	4.7	7.0	Ni1	N @ 1	-	<2
		1455	1.6					
20	0950	0750	4.6	7.0	3.0	SE @ 2	27.5	<2
		1555	1.4					
25	1555	1250	3.9	7.0	13.2	Ni1	28.0	<2
		2040	1.3					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 42

Location: Miracle Beach Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1000	0830	3.7	6.1	9.7	NW @ 4	27.5	7
		1310	4.1					
16	1230	0530	4.6	7.0	3.8	N @ 4	17.0	33
		1240	2.7					
18	0950	0640	4.7	6.5	Trace	Ni1	26.5	<2
		1405	2.0					
19	1040	0720	4.7	7.0	Ni1	NW @ 3	-	5
		1455	1.6					
20	0955	0750	4.6	6.5	3.0	SE @ 5	27.5	<2
		1555	1.4					
25	1600	1250	3.9	6.9	13.2	NE @ 1	28.0	2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 43

Location: Elma Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 12	1010	0830	3.7	6.4	9.7	NW @ 3	27.0	4
		1310	4.1					
16	1235	0530	4.6	7.5	3.8	N @ 3	27.0	2
		1240	2.7					
18	0950	0640	4.7	6.3	Trace	NW @ 1	27.5	5
		1405	2.0					
19	1045	0720	4.7	7.0	NW	-		
		1455	1.6					
20	0955	0750	4.6	6.8	3.0	SE @ 2	27.5	2
		1555	1.4					
25	1600	1250	3.9	7.0	13.2	SW @ 1	28.0	<2
		2040	1.3					

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APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 44

Location: Elma Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1020	0830	3.7	6.6	9.7	W @ 6	27.5	<2
		1310	4.1					
16	1240	1240	2.7	7.5	3.8	N @ 3	26.5	<2
		1705	4.2					
18	0955	0640	4.7	6.4	Trace	NW @ 2	27.5	<2
		1405	2.0					
19	1050	0720	4.7	6.8	Nil	N @ 1	-	2
		1455	1.6					
20	1000	0750	4.6	7.0	3.0	SE @ 1	27.5	<2
		1555	1.4					
25	1605	1250	3.9	6.9	13.2	SW @ 1	27.5	<2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 45

Location: Elma Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1025	0830	3.7	7.0	9.7	NW @ 4	24.5	33
		1310	4.1					
16	1245	1240	2.7	7.5	3.8	NE @ 3	25.0	5
		1705	4.2					
18	0960	0640	4.7	6.9	Trace	N @ 2	27.0	-
		1405	2.0					
19	1055	0720	4.7	7.0	Ni1	NW @ 1	-	4
		1455	1.6					
20	1005	0750	4.6	6.8	3.0	SE @ 1	27.5	<2
		1555	1.4					
25	1610	1250	3.9	6.9	13.2	SW @ 2	27.5	2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 46

Location: Williams Beach

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1030	0830	3.7	7.0	9.7	NW @ 4	28.0	5
		1310	4.1					
16	1250	1240	2.7	7.5	3.8	N @ 3	28.5	<2
		1705	4.2					
18	1000	0640	4.7	6.9	Trace	NW @ 3	27.0	<2
		1405	2.0					
19	1055	0720	4.7	6.8	Ni1	NW @ 2	-	<2
		1455	1.6					
20	1005	0750	4.6	6.5	3.0	SE @ 5	27.5	2
		1555	1.4					
25	1615	1250	3.9	6.7	13.2	SE @ 1	28.0	<2
		2040	1.3					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 47

Location: Williams Beach

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 12	1040	0830	3.7	7.1	9.7	NW @ 5	28.0	<2
		1310	4.1					
16	1255	1240	2.7	7.9	3.8	N @ 3	29.0	<2
		1705	4.2					
18	1005	0640	4.7	7.0	Trace	N @ 3	27.5	7
		1405	2.0					
19	1100	0720	4.7	6.8	Ni1	N @ 2	-	<2
		1455	1.6					
20	1015	0750	4.6	6.5	3.0	SE @ 12	27.5	2
		1555	1.4					
24	1415	1135	4.0	7.0	0.5	SE @ 4-6	27.5	<2
		1935	1.2					

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 48

Location: Kitty Coleman Beach Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1050	0830	3.7	6.9	9.7	W @ 3	28.0	4
		1310	4.1					
16	1305	1240	2.7	7.8	3.8	NW @ 4	29.0	4
		1705	4.2					
18	1015	0640	4.7	6.9	Trace	SW @ 4	27.5	2
		1405	2.0					
19	1110	0720	4.7	6.5	Ni1	N @ 4	-	<2
		1455	1.6					
20	1030	0750	4.6	7.0	3.0	SW @ 2	28.0	<2
		1555	1.4					
24	1430	1135	4.0	7.0	0.5	SE @ 2-5	27.5	<2
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 49

Location: Kitty Coleman Beach Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 12	1100	0830	3.7	6.9	9.7	NW @ 5	27.5	2
		1310	4.1					
16	1310	1240	2.7	7.9	3.8	NW @ 5	27.5	<2
		1705	4.2					
18	1020	0640	4.7	6.8	Trace	W @ 2	26.5	<2
		1405	2.0					
19	1115	0720	4.7	6.8	Ni 1	NW @ 5	-	2
		1455	1.6					
20	1035	0750	4.6	6.8	3.0	S @ 2	26.5	5
		1555	1.4					
24	1435	1135	4.0	7.0	0.5	SE @ 2-3	27.5	<2
		1935	1.2					

APPENDIX III **BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES**

Sample Station: 50

Location: Kitty Coleman Beach Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1105	0830	3.7	6.9	9.7	NW @ 4	25.5	11
		1310	4.1					
16	1315	1240	2.7	7.8	3.8	NW @ 6	27.5	2
		1705	4.2					
18	1025	0640	4.7	6.9	Trace	SW @ 3	27.5	<2
		1405	2.0					
19	1120	0720	4.7	7.0	Ni1	N @ 2	-	<2
		1455	1.6					
20	1035	0750	4.6	7.0	3.0	S @ 5	27.5	<2
		1555	1.4					
24	1435	1135	4.0	7.2	0.5	S @ 5-6	26.5	<2
		1935	1.2					

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APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 51

Location: Bates Beach

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1110	0830	3.7	7.2	9.7	N @ 4	28.5	<2
		1310	4.1					
16	1320	1240	2.7	7.8	3.8	NW @ 3	29.0	<2
		1705	4.2					
18	1025	0640	4.7	7.1	Trace	S @ 5	28.0	<2
		1405	2.0					
19	1125	0720	4.7	7.0	Ni 1	N @ 2	-	<2
		1455	1.6					
20	1040	0750	4.6	6.8	3.0	SE @ 3	27.5	<2
		1555	1.4					
24	1440	1135	4.0	7.5	0.5	SE @ 5-7	27.5	<2
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 52

Location: Bates Beach

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1115	0830	3.7	7.1	9.7	NW @ 4	28.5	<2
		1310	4.1					
16	1320	1240	2.7	7.9	3.8	NW @ 4	28.5	<2
		1705	4.2					
18	1030	0640	4.7	7.0	Trace	E @ 3	27.5	2
		1405	2.0					
19	1125	0720	4.7	7.0	Nil	NW @ 6	-	<2
		1455	1.6					
20	1045	0750	4.6	7.0	3.0	S @ 4	27.5	2
		1555	1.4					
24	1445	1135	4.0	7.5	0.5	SE @ 4-5	26.5	2
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 53

Location: Seal Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1120	0830	3.7	7.0	9.7	NW @ 3	28.0	2
		1310	4.1					
16	1325	1240	2.7	7.7	3.8	NW @ 4	29.0	<2
		1705	4.2					
18	1035	0640	4.7	6.9	Trace	SW @ 6	27.5	<2
		1405	2.0					
19	1130	0720	4.7	7.0	Ni1	NW @ 5	-	2
		1455	1.6					
20	1055	0750	4.6	6.5	3.0	SE @ 8	27.5	<2
		1555	1.4					
24	1450	1135	4.0	7.0	0.5	SE @ 6	27.5	2
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 54

Location: Little River Area

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1130	0830	3.7	7.1	9.7	N @ 4	28.5	<2
		1310	4.1					
16	1330	1240	2.7	7.8	3.8	NW @ 8	29.0	<2
		1705	4.2					
18	1040	0640	4.7	7.1	Trace	SW @ 7	27.0	<2
		1405	2.0					
19	1135	0720	4.7	7.0	Ni1	NW @ 5	-	2
		1455	1.6					
20	1105	0750	4.6	6.8	3.0	SE @ 12	27.0	<2
		1555	1.4					
24	1455	1135	4.0	7.5	0.5	S @ 6	28.5	<2
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 55

Location: Kin Beach Park

Date (1976)	Sample Time	Tide Conditions	Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)				
Feb. 12	1140	0830	3.7	7.6	9.7	N @ 6	28.5
		1310	4.1				<2
16	1340	1240	2.7	7.8	3.8	NW @ 4	27.5
		1705	4.2				17
18	1045	0640	4.7	7.3	Trace	E @ 2	27.5
		1405	2.0				<2
19	1145	0720	4.7	6.8	Ni1	NW @ 5	-
		1455	1.6				5
20	1115	0750	4.6	6.5	3.0	SE @ 12	27.5
		1555	1.4				<2
24	1500	1135	4.0	6.8	0.5	SW @ 8	27.5
		1935	1.2				<2

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 56

Location: Kin Beach Park

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 12	1145	0830	3.7	7.6	9.7	NW @ 5	28.0	5
		1310	4.1					
16	1345	1240	2.7	7.7	2.8	NW @ 2	28.5	2
		1705	4.2					
18	1050	0640	4.7	7.4	Trace	S @ 2	27.5	2
		1405	2.0					
19	1150	0720	4.7	6.8	Ni 1	NW @ 6	-	5
		1455	1.6					
20	1125	0750	4.6	7.0	3.0	SE @ 8	27.5	2
		1555	1.4					
24	1505	1135	4.0	6.8	0.5	SW @ 1	27.5	7
		1935	1.2					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 57

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 12	1150	0830	3.7	7.3	9.7	N @ 3	28.5	5
		1310	4.1					
16	1350	1240	2.7	7.6	3.8	N @ 2	28.0	<2
		1705	4.2					
18	1055	0640	4.7	7.3	Trace	SE @ 14	27.0	100
		1405	2.0					
19	1150	0720	4.7	6.5	Nil	NW @ 5	-	33
		1455	1.6					
20	1130	0750	4.6	6.5	3.0	E @ 20	27.5	2
		1555	1.4					
24	1510	1135	4.0	7.0	0.5	SE @ 5-9	27.5	<2

APPENDIX III

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 58

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 23	1105	1025	4.1	7.1	0.8	E @ 5	27.5	5
		1830	1.2					
24	1055	0740	3.5	6.0	0.5	Ni1	28.0	23
		1135	4.0					
25	0920	0855	3.4	5.0	13.2	SE @ 8	27.5	34
		1250	3.9					
26	0920	0325	4.3	5.5	5.1	Ni1	27.5	7
		1005	3.2					
28	1050	0425	4.3	5.0	4.6	Ni1	27.5	<2
		1135	2.8					
29	1115	0455	4.3	6.0	Ni1	W @ 3	28.0	<2

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 59

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 17	1440	1310	2.3	7.2	5.6	Nil	25.5	<2
		1800	4.1					
18	0945	0640	4.7	6.0	Trace	Nil	27.0	23
		1405	2.0					
19	0940	0720	4.7	-	Nil	Nil	-	13
		1455	1.6					
20	1010	0750	4.6	7.0	3.0	E @ 3-8	27.0	70
		1555	1.4					
23	1115	1025	4.1	7.1	0.8	E @ 5	26.5	7
		1830	1.2					
25	0915	0855	3.4	5.0	13.2	SE @ 8	27.5	33
		1250	3.9					
26	0915	0325	4.3	5.5	5.1	Nil	27.0	7
		1005	3.2					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 59 (continued)

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 28	1045	0425	4.3	4.5	4.6	N11	27.5	5
		1135	2.8					
29	1100	0455	4.3	6.0	N11	W @ 3	28.0	<2
		1205	2.6					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 60

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 17	1440	1310	2.3	7.3	5.6	Ni1	27.0	9
		1800	4.1					
18	0950	0640	4.7	6.0	Trace	SW @ 3-5	26.5	46
		1405	2.0					
19	0930	0720	4.7	-	Ni1	Ni1	33	
		1455	1.6					
20	1020	0750	4.6	7.2	3.0	NW @ 5	27.0	9
		1555	1.4					
23	1130	1025	4.1	7.0	0.8	NW @ 2	26.5	8
		1830	1.2					
25	0910	0855	3.4	5.5	13.2	W @ 2	28.0	350
		1250	3.9					
26	0910	0325	4.3	5.0	5.1	Ni1	27.5	140
		1005	3.2					

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Continued...

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 60 (continued)

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 mL
		Time	Height (m)					
Feb. 28	1035	0425	4.3	4.0	4.6	W @ 3-5	27.0	2
		1135	2.8					

APPENDIX III BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES

Sample Station: 61

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 17	1445	1310	2.3	7.3	5.6	Nil	26.5	<2
		1800	4.1					
18	1000	0640	4.7	6.3	Trace	SW @ 3	26.5	17
		1405	2.0					
19	0935	0720	4.7	-	Nil	Nil	-	8
		1455	1.6					
20	1025	0750	4.6	6.4	3.0	NW @ 5	27.0	22
		1555	1.4					
23	1130	1025	4.1	7.0	0.8	NW @ 2	26.5	5
		1830	1.2					
25	0905	0855	3.4	6.0	13.2	Nil	27.5	140
		1250	3.9					
26	0905	0325	4.3	5.0	5.1	Nil	27.5	170
		1005	3.2					
28	1025	0425	4.3	4.5	4.6	W @ 3-5	27.5	2
		1135	2.8					

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APPENDIX III **BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR MARINE SAMPLES**

Sample Station: 62

Location: Kye Bay

Date (1976)	Sample Time	Tide Conditions		Water Temp. (°C)	Total Precip. (mm)	Wind (knots)	Salinity (ppt)	Fecal Coliform MPN/100 ml
		Time	Height (m)					
Feb. 23	1145	1025	4.1	7.0	0.8	NW to S	26.5	17
		1830	1.2					
24	1100	0740	3.5	6.4	0.5	Nil	26.5	33
		1135	4.0					
25	0855	0855	3.4	6.5	13.2	Nil	27.5	49
		1250	3.9					
26	0900	0325	4.3	4.0	5.1	Nil	28.0	49
		1005	3.2					
28	1020	0425	4.3	5.0	4.6	W @ 3-5	28.0	8
		1135	2.8					
29	1035	0455	4.3	4.5	Nil	-	27.5	<2
		1205	2.6					

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND
SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S1

LOCATION: 6th Ave. storm drain south of sewage treatment plant

Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml
				Fecal Coliform Fecal Streptococci
Feb. 5	1015	Ni1	0.00651	TNTC*
6	0845	Ni1	-	11,000
9	1415	Trace	-	16,900
10	1025	4.6	0.00991	33,000
11	0845	17.5	0.0566	400
12	1500	9.7	-	1,400
13	1015	10.7	0.0555	300
24	1115	0.5	0.0708	540

			TNTC*	TNTC
Feb.	5	Ni1	0.00651	TNTC*
6	0845	Ni1	-	1260
9	1415	Trace	-	460
10	1025	4.6	0.00991	1900
11	0845	17.5	0.0566	700
12	1500	9.7	-	1100
13	1015	10.7	0.0555	660
24	1115	0.5	0.0708	240

* Too Numerous to Count

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S2

LOCATION: Storm drain: Foot of 3rd Avenue

Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL		
				Fecal Coliform	Fecal Streptococci	
Feb. 5	1030	Ni1	-	1	1	3
6	0855	Ni1	-	18	-	-
9	1445	Trace	-	13	19	
10	1050	4.6	0.000850	29	10	
11	0835	17.5	0.000566	1	0	
12	1510	9.7	-	0	4	

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S3

LOCATION: Storm drain: Foot of Evergreen Road

Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml
			Fecal Coliform	Fecal Streptococci
Feb. 5	1045	Ni1	0.00765	0
6	920	Ni1	-	1
9	1505	Trace	-	1
10	855	4.6	0.00312	2
11	855	17.5	0.00935	>1600 (MPN/100 ml)
12	1005	9.7	-	76
				53

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION:	4	LOCATION:	Storm drain: North of Driftwood Beach Trailer Park	Total Precip. (mm)	Flow m ³ /sec	MF Count per 100 mL
Date (1976)	Sample Time					Fecal Coliform
						Fecal Streptococci
Feb. 4	1130	Nil	0.00394	0	0	2
5	1120	Nil	0.00227	-	4	0
6	925	Nil	-	-	0	0
9	1510	Trace	-	-	1	0
10	905	4.6	0.00340	-	2	2
11	900	17.5	0.00680	1600 (MPN/100 mL)	-	-

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S5 LOCATION: Storm ditch: Foot of Rockland Road

Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 5	1135	Nil	-	3	-
6	1020	Nil	-	13	0
9	1520	Trace	-	0	0
10	0920	4.6	0.00028	0	2
11	0910	17.5	0.00028	160	10
12	0935	9.7	-	3	2

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S6		LOCATION: Mouth of Simms Creek		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml Fecal Coliform Fecal Streptococci
Feb. 4	1330	Nil	0.336	0 0
5	1315	Nil	0.388	29 3
6	1030	Nil	-	TNTC*
9	1525	Trace	-	268 340
10	1120	4.6	0.312	20 120
11	0915	17.5	1.487	146 146
12	0930	9.7	-	45 45
13	0940	10.7	1.487	64 64
23	1135	0.8	0.673	3 3
24	1530	0.5	0.584	9 3

*Too Numerous to Count

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S7

LOCATION: Mouth of Willow Creek

Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml	
				Fecal Coliform	Fecal Streptococci
Feb. 4	1415	Ni1	0.500	3	13
5	1320	Ni1	0.381	5	2
6	1035	Ni1	-	18	3
9	1535	Trace	-	12	0
10	1135	4.6	0.566	3	4
11	0930	17.5	0.566	86	36
13	0920	10.7	1.416	119	55
23	1145	0.8	0.761	10	10
24	1545	0.5	4.190	6	234

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S8		LOCATION: Storm ditch: Foot of Dahl Road			
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml	
				Fecal Coliform	Fecal Streptococci
Feb. 4	1430	Nil	0.00493	0	0
5	1345	Nil	-	3	3
6	1040	Nil	-	12	10
9	1540	Trace	-	60	TNTC*
10	1145	4.6	0.0433	33	TNTC*
11	0940	17.5	0.0433	22	280
13	0900	10.7	0.0300	620	550

*Too Numerous to Count

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S9

LOCATION: Storm ditch: North of Washington Drive

Date (1976)	Sample Time	Total Precip. (mm)	Flow m ³ /sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 4	1445	Ni1	0.0322	0	1
5	1410	Ni1	0.0332	1	0
6	1050	Ni1	-	3	0
9	1545	Trace	-	3	0
10	-	4.6	0.0274	1	1
11	0950	17.5	0.0413	19	55

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S10		LOCATION: Creek North of Heard Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL
				Fecal Coliform Fecal Streptococci
Feb. 4	1510	Ni1	0.0413	3
5	1420	Ni1	0.0295	1
9	1555	Trace	-	2
10	1505	4.6	0.0170	0
11	1000	17.5	0.0255	17
12	0920	9.7	-	12
				2
				77
				39
				123
				19

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S11			LOCATION: Creek South of Heard Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m ³ /sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 4	1525	Ni1	0.0419	11	3
5	1430	Ni1	0.0283	507	35
9	1610	Trace	-	23	2
10	1445	4.6	0.0442	28	2
11	1005	17.5	0.266	140	40
12	0910	9.7	-	150	5
13	0850	10.7	0.110	100	30

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S12		LOCATION: Storm ditch: South of Engles Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL
		Fecal Coliform	Fecal Streptococci	
Feb. 4	1535	Nil	0.0014	0
9	1615	Trace	-	7
11	1010	17.5	0.00028	9
12	0905	9.7	-	26
13	0845	10.7	-	6

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S13		LOCATION: Creek South of McGimpsey Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL Fecal Coliform Fecal Streptococci
Feb. 4	1550	Nil	0.395	2 15
5	1500	Nil	-	7 3
6	1115	Nil	-	60 2
9	1620	Trace	-	43 8
10	1405	4.6	0.379	27 5
11	1015	17.5	0.354	64 152
12	0905	9.7	-	25 4

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S14			LOCATION: Creek North of Seawave Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 4	1200	Ni1	0.116	0	3
5	1530	Ni1	0.149	10	2
6	1120	Ni1	-	50	-
9	1625	Trace	-	13	1
10	1355	4.6	0.162	7	3
11	1025	17.5	0.398	TNTC*	TNTC*
13	0835	10.7	0.467	150	290

*Too Numerous to Count

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S15			LOCATION: Storm ditch: Foot of Anton Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 6	1125	Nil	-	169	TNTC*
9	1625	Trace	-	680	360
10	1345	4.6	0.00085	710	340
11	1035	17.5	0.00991	200	1600
12	0830	9.7	-	300	950
13	0820	10.7	-	800	1100

*Too Numerous to Count

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION:	ST16	LOCATION: Oyster River at Mouth		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL
				Fecal Coliform Fecal Streptococci
Feb. 18.	1225	Trace	10.6*	2 2
19	1145	Nil		0 1

* Monthly mean for 1974 (Water Survey of Canada)

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S17

		LOCATION: Left Road		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml
				Fecal Coliform Fecal Streptococci
Feb. 17	1135	5.6	-	6 4
18	1150	Trace	.012	2
19	1105	Nil	-	3 1

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S18		LOCATION: Kitty Coleman Beach		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml
		Fecal Coliform	Fecal Coliform	Fecal Streptococci
Feb. 17	1100	5.6	-	250
18	1130	Trace	0.804	64
19	1055	Nil	-	5
24	1210	0.5	-	12
				54
				62
				13

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION:	S19	LOCATION:	Stream next to trailer park at Bates Beach	
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 ml
				Fecal Coliform Fecal Streptococci
Feb. 17	1030	5.6	-	14 5
18	1100	Trace	0.135	6 2
19	1030	Nil	-	18 29
24	1150	0.5	-	12 1

APPENDIX IV

BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S20			LOCATION: Mouth of Little River		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m^3/sec	MF Count per 100 mL	
				Fecal Coliform	Fecal Streptococci
Feb. 17	1000	5.6	-	220	50
18	1030	Trace	1.083	50	50
19	1005	Ni1	-	12	50
24	1130	0.5	-	120	18

APPENDIX IV BACTERIOLOGICAL ANALYSES RESULTS AND SAMPLING CONDITIONS FOR FRESHWATER SAMPLES

SAMPLE STATION: S21		LOCATION: Black Creek		
Date (1976)	Sample Time	Total Precip. (mm)	Flow m ³ /sec	MF Count per 100 mL
				Fecal Coliform Fecal Streptococci
Feb. 24 ¹	-	0.5	-	7 9
Feb. 26 ¹	-	13.2	-	49 (MPN/100 mL) -
Feb. 26 ²	-	5.1	-	49 (MPN/100 mL) -

¹ Collected at Island Highway crossing

² Collected at Miracle Beach Park crossing