

I 07/26/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL 50-220

REC: GRIER B H
NRC

ORG: SCHNEIDER R R
NIAGARA MOHAWK PWR

DOC DATE: 07/21/78
DATE RCVD: 07/25/78

DOCTYPE: LETTER NOTARIZED: NO

COPIES RECEIVED

SUBJECT:

LTR 1 ENCL 20

FORWARDING ERRATA TO APPLICANT'S REPT ENTITLED: "1977 NINE MILE POINT AQUATIC
ECOLOGY STUDIES".

PLANT NAME: NINE MILE PT - UNIT 1

REVIEWER INITIAL: XJM
DISTRIBUTOR INITIAL: *me*

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

ANNUAL ENVIRONMENTAL RPTS (OL STAGE).
(DISTRIBUTION CODE A007)

FOR ACTION: BR CHIEF ORB#3 BC**W/7 ENCL

INTERNAL:

REG FILE**W/ENCL
I & E**W/2 ENCL
ENVIRO SPEC BR**W/ENCL
RAD ASSESSMENT BR**W/ENCL

NRC PDR**W/ENCL
EEB**W/ENCL
EFFLUENT TREAT SYS**W/ENCL
KASTNER**W/ENCL

EXTERNAL:

LPDR'S
OSWEGO, NY**W/ENCL
TERA**W/ENCL
NSIC**W/ENCL
ACRS CAT B**W/ENCL

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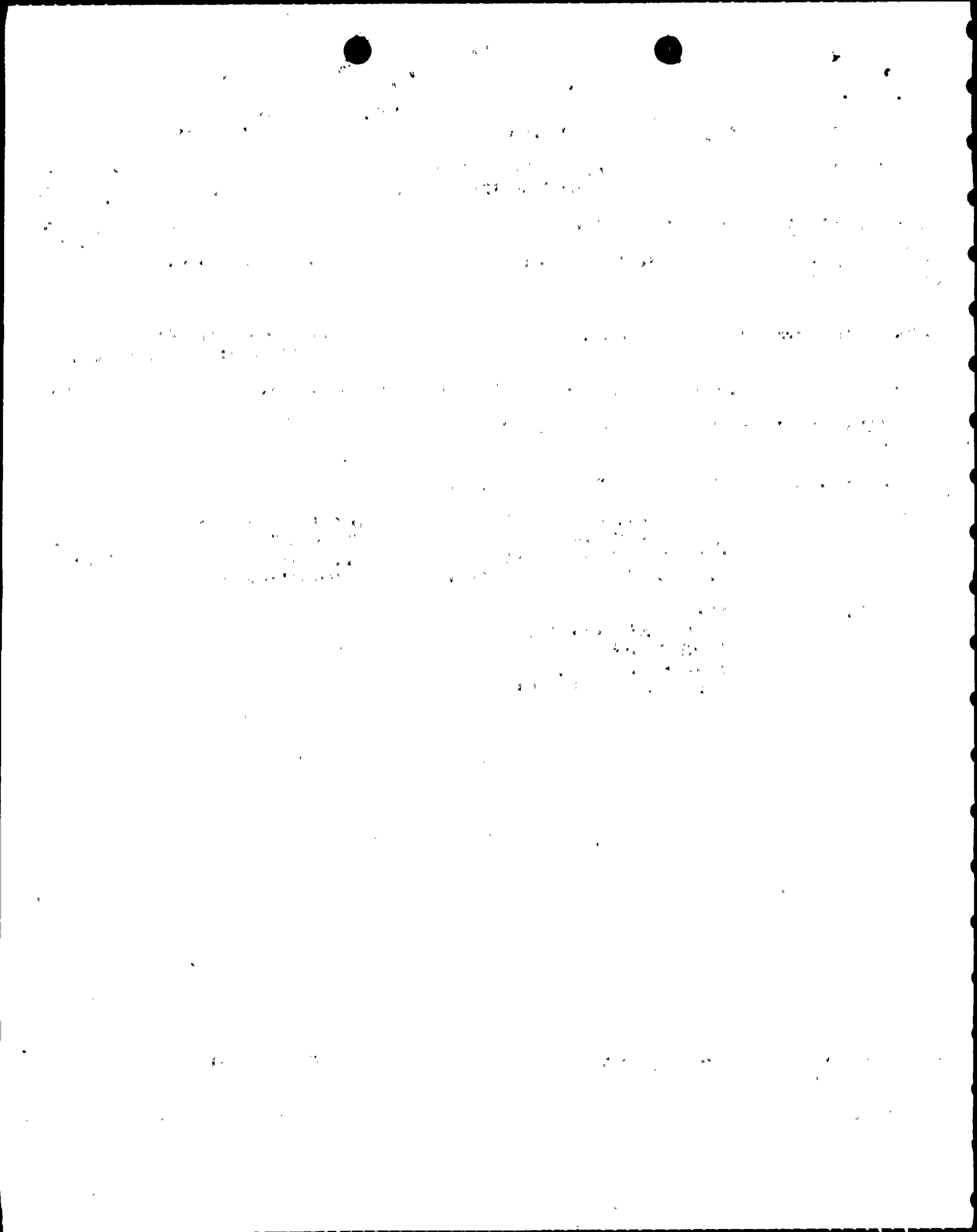
DISTRIBUTION: LTR 20 ENCL 20
SIZE: 1P+15P

CONTROL NBR: 782070038

CP

***** THE END *****

Enviro |



**NIAGARA
MOHAWK**

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

July 21, 1978

Mr. Boyce H. Grier, Director
Office of Inspection and Enforcement
Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

REGISTRATION
SERVICES

078 JUL 24 1978

REGISTRATION
SERVICES

Dear Mr. Grier:

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

REGULATORY DOCKET FILE COPY

My letter of May 26, 1978 transmitted copies of the 1977 Nine Mile Point Aquatic Ecology Studies Report. Enclosed we herewith submit two (2) copies of the following:

"Errata - 1977 Nine Mile Point Aquatic Ecology Studies"

The enclosed changes have no effect on the conclusions of the report.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

R. R. Schneider
R. R. Schneider

Vice President-Electric Protection

MGM/szd

782070038

Enclosures (2)

Xcs: Messrs: Ernst Volgenau (20 copies) ✓
William G. McDonald (2 copies)

A007
S. / 20*



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ERRATA

NINE MILE POINT AQUATIC ECOLOGY STUDIES

1977 DATA REPORT

SECTION I

Pages I-C 5, 36, 41, 44, and 50. Footnote number 1 should read Number per 1000 m³.

Page I-C 10. Change sampling dates of Jun 10-12, Jun 23, and Jul 29 to read Jun 11-12, Jun 22, and Jul 28.

Page I-C 11. Change Aug 9 to Aug 8.

Page I-C 33. Change the first Oct 24-25 to Oct 11.

Page I-C 42. Change Aug 25 to Aug 15.

Pages I-B 17 through 25. The macrozooplankton tables have been modified and densities expressed as number of organisms per 1000 cubic meters so they are directly comparable to previous reports; new tables attached.

SECTION II

Page II-A 21 and II-B 12. Change (milligrams/square millimeter) to (milligrams/square decimeter)

Page II-B 7. Change depth contour 6 to 2.

SECTION V

Page V-B 2. Change unit of measurement for chlorophyll a and phaeophytin a to µg/l.

SECTION VI

Page VI-B 12. Change 15 Aug to 15 Sep.

SECTION VII

Page VII-A 9. Mean electrical output for 28 Nov was 57 MWe.



Small, faint, illegible markings or artifacts in the top right corner of the page.

ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

COELENTERATA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	433	200	200	0	0	0	139	0	0	100	0	0	0	17	0	0	0	62
Jun	0	0	0	0	0	0	0	0	0	0	266	0	0	44	0	0	0	18
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	866	0	0	0	144	0	0	30303	2078
Oct	0	0	0	0	0	0	0	0	0	533	0	0	0	89	0	0	0	36
Nov	0	0	0	2697	0	0	450	0	0	0	0	0	0	0	0	0	0	180
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

CLADOCERA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	10456	4162	9391	5728	13353	3630	7787	832	2065	2231	4129	14252	1432	4157	1032	233	333	4884
May	3397	3297	4895	7925	10223	466	5034	2298	2930	3463	6660	3896	133	3230	24808	7726	599	5514
Jun	10589	8691	5395	5561	8658	8492	7898	10090	10290	9191	12488	14552	6693	10551	10390	11855	11921	9657
Jul	43490	105161	85881	5128	6760	4595	41836	101765	97469	46620	5361	2231	4429	42979	932	43556	37130	39367
Aug	3.4x10 ⁶	3.0x10 ⁶	1.2x10 ⁷	1.4x10 ⁷	4.5x10 ⁷	2.3x10 ⁷	1.7x10 ⁷	5.5x10 ⁶	6.4x10 ⁶	6.1x10 ⁶	5.9x10 ⁷	5.4x10 ⁷	1.0x10 ⁸	3.9x10 ⁷	1.0x10 ⁸	4.7x10 ⁷	7.5x10 ⁶	3.2x10 ⁷
Sep	171928	102031	51948	53280	33367	16850	71567	223110	86180	46687	56776	46220	26640	80936	53114	68365	59341	73056
Oct	222111	222111	137729	75158	70196	179387	151115	182084	164002	93140	106893	82850	187679	136108	56976	42124	121978	129628
Nov	24209	16683	14652	37829	89044	48751	38528	18415	7992	12721	405960	399800	952180	299511	37096	15984	62071	142892
Dec	31535	42957	57343	15018	271062	274092	115335	29171	31169	40792	49817	77689	144788	62238	25175	57742	103763	83474

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

COPEPODA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	5528	7892	26240	8392	8092	5994	10356	2997	7026	6560	8092	19148	5228	8175	23144	9790	10623	10316
May	2997	11921	9890	11788	53913	29304	19969	13120	32035	22711	15684	29570	11255	20729	151815	140426	143223	45310
Jun	433	633	266	166	999	1665	694	633	500	699	1865	733	1265	949	1066	1632	2065	975
Jul	200	0	0	266	599	200	211	0	0	0	2264	1832	999	849	1565	62071	19680	5978
Aug	1595	28571	0	0	0	86047	21762	26973	24675	0	860538	214419	784115	318503	0	200499	38228	152021
Sep	699	0	0	0	0	0	117	0	0	0	266	0	0	44	0	0	433	93
Oct	3097	4795	2930	866	533	1099	2220	1732	3230	899	533	733	4595	1954	566	433	433	1765
Nov	17183	46021	43656	11722	10356	2531	21911	35032	116017	80386	14486	14752	12687	45560	49084	54013	35531	36230
Dec	3963	3263	1232	1565	22444	18348	8469	8192	4129	4462	5525	11189	22777	9380	4362	6527	8824	8454

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

CALANOIDA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	5528	7892	26240	8325	8092	5994	10345	2997	7026	6560	8025	19148	5228	8164	23144	9790	10623	10308
May	2997	11921	9890	11255	60939	29138	21023	13120	32035	22611	15584	28039	11222	20435	148518	138029	142624	45195
Jun	233	133	100	0	166	533	194	300	266	133	200	266	333	250	67	433	832	266
Jul	200	0	0	266	599	133	200	0	0	0	2264	1755	932	827	1565	62071	19414	5947
Aug	0	28572	0	0	0	0	4762	26973	0	0	286946	0	392041	117660	0	0	19114	50241
Sep	699	0	0	0	0	0	117	0	0	0	266	0	0	44	0	0	433	93
Oct	3097	4795	2930	866	533	999	2203	1732	3230	899	533	733	4595	1954	566	433	433	1758
Nov	17183	46021	43656	11722	10356	2531	21911	35032	116017	80386	14486	14752	12687	45560	49084	54013	35531	36230
Dec	3563	3263	1232	1498	22444	18348	8392	8192	3996	4262	5528	11189	22777	9324	4362	6527	8824	8400

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station. Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

CYCLOPOIDA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	0	0	0	67	0	0	11	0	0	0	67	0	0	11	0	0	0	9
May	0	0	0	533	1931	166	438	0	0	100	100	1532	33	294	3297	2398	599	713
Jun	233	500	166	166	866	1132	511	300	233	566	1665	466	932	694	1032	1199	1232	713
Jul	0	0	0	0	0	67	11	0	0	0	0	100	67	28	0	0	266	53
Aug	15951	0	0	0	0	86047	17000	0	24675	0	573892	214419	392041	200838	0	200499	19114	101776
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	400	0	0	67	0	0	78	0	133	166	0	0	0	50	0	0	0	51

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

- AMPHIPODA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	33	6	0	0	0	2
Jul	0	0	0	0	0	33	6	0	0	0	0	0	0	0	0	0	0	2
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Composite of surface, mid-depth, and bottom horizontal tows.

**Stations along contours are established with 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

HYDRACARINA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	67	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	4
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	2
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

DIPTERA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	133	67	67	466	0	2231	494	133	0	100	100	666	366	228	533	0	0	324
Jun	0	0	0	133	0	100	39	67	33	0	133	0	33	44	0	0	0	33
Jul	0	0	866	0	33	0	150	433	0	133	33	33	0	105	33	0	0	104
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



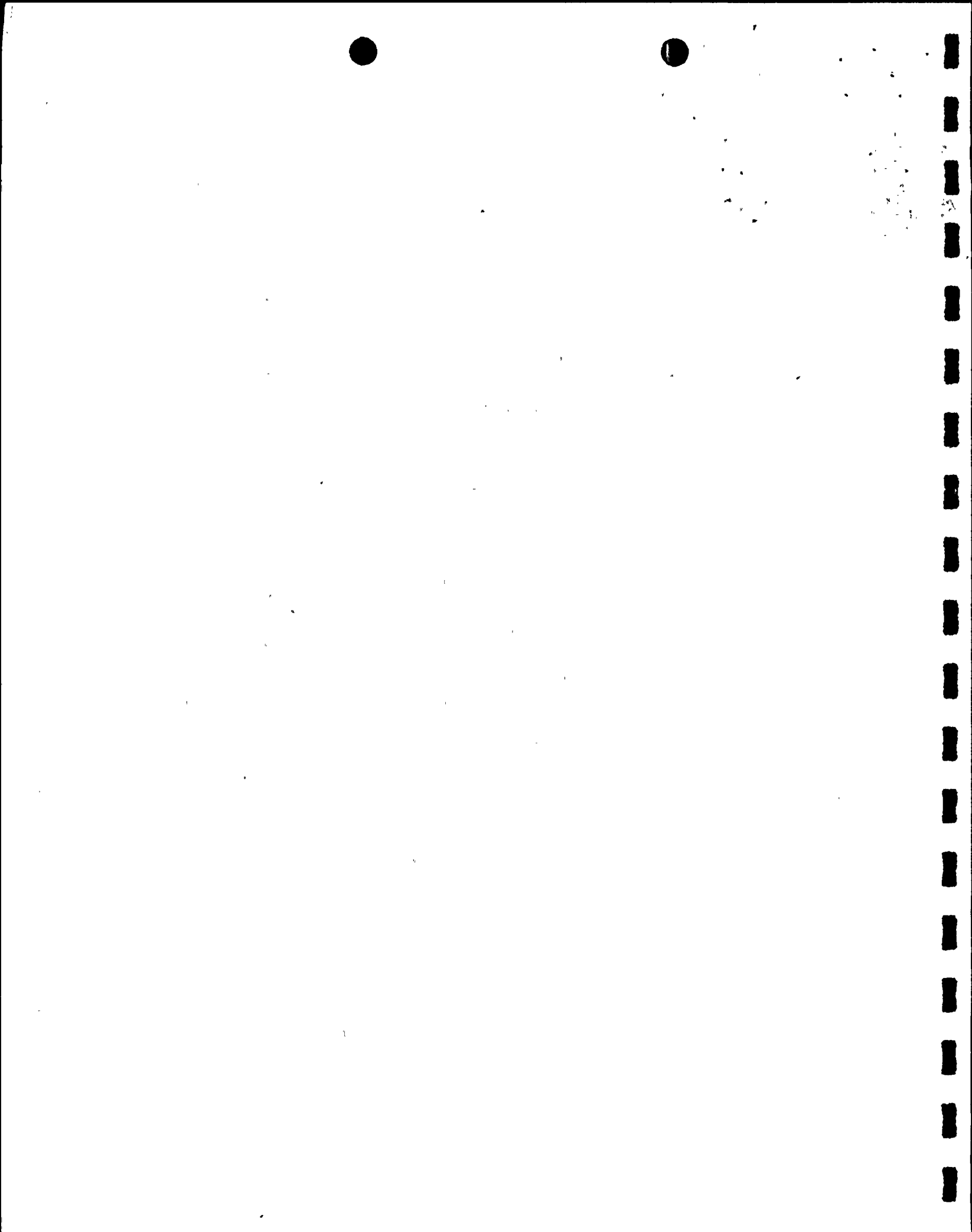
ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
 FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
 NINE MILE POINT VICINITY, 1977

TOTAL MACROZOOPLANKTON

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	15984	12055	35631	14119	21445	9624	18148	3863	9091	8758	12221	33367	6660	12321	24209	9990	10922	15196
May	6960	15518	15052	20146	64136	31968	25630	15584	34965	26407	22544	34132	11722	24226	177189	148152	143789	51218
Jun	11022	9357	5661	5861	9690	10256	8641	10756	10856	9923	14752	15251	8025	11594	11488	13486	13986	10692
Jul	43889	105161	86713	5395	7393	4895	42241	102198	97469	46753	8558	4129	5461	44095	2531	105628	56310	45532
Aug	3.4x10 ⁶	3.0x10 ⁶	1.2x10 ⁷	1.4x10 ⁷	4.5x10 ⁷	2.3x10 ⁷	1.7x10 ⁷	5.5x10 ⁶	6.4x10 ⁶	6.1x10 ⁶	6.0x10 ⁷	5.4x10 ⁷	1.0x10 ⁸	3.9x10 ⁷	1.0x10 ⁸	4.7x10 ⁷	7.6x10 ⁶	3.2x10 ⁷
Sep	172627	102031	51948	53280	33367	16850	71684	223110	86180	47719	57343	46220	26640	81202	53114	68365	90076	75258
Oct	225175	226906	140659	75991	70729	180386	153308	183849	167233	94039	107959	93583	192274	138156	57542	42557	122411	131420
Nov	41392	62671	58308	52248	99400	51249	60878	53446	124009	93107	420445	414518	964868	345066	86180	69997	97602	179296
Dec	35498	46254	58575	16583	293506	292441	123809	37396	35331	45255	55345	88878	167566	71628	29504	64269	112587	91932
Annual Mean	4.4x10 ⁵	4.0x10 ⁵	1.4x10 ⁶	1.5x10 ⁶	5.1x10 ⁶	2.6x10 ⁶	1.9x10 ⁶	6.8x10 ⁵	7.8x10 ⁵	7.2x10 ⁵	6.7x10 ⁶	5.1x10 ⁶	1.1x10 ⁷	4.4x10 ⁶	1.1x10 ⁷	5.3x10 ⁶	9.2x10 ⁵	3.3x10 ⁷

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



ERRATA

1977 NINE MILE POINT AQUATIC ECOLOGY STUDIES

SECTION IV and APPENDIX B

Page IV-B 7

Percent relative abundance of calanoid copepods during April, May, July and November was 68, 88, 13, and 20 percent respectively.

Tables IV-B 3 and 4 and Appendix Tables B-7 and B-8.

The macrozooplankton tables have been modified and densities expressed as number of organisms per 1000 cubic meters so they are directly comparable to previous reports; new tables attached.

Page IV-C 4 (table IV-C 3) and page IV-C 8 (table IV-C6).
Change (milligrams/square millimeter) to (milligrams/square decimeter)

APPENDIX G

Table G-3.

Change unit of measure for chlorophyll a and phaeophytin a
to $\mu\text{g}/\ell$.



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Table IV-B 3

Percent Relative Abundance of Major Macrozooplankton Groups and Total Density of Macrozooplankton Collected from Composited* Hensen Net (571 Micron) Tows in the Vicinity of Nine Mile Point, -1977

Taxa	Collection Dates									Annual Mean
	15 Apr	11 May	14 Jun	13 Jul	9 Aug	12 Sep	11 Oct	7 Nov	16 Dec	
Cladocera	32	11	90	86	100	98	99	80	91	99
Copepoda-Calanoidea	68	88	2	13	T	T	1	20	9	1
Copepoda-Cyclopoida	T**	1	7	T	T	0	0	0	T	T
Amphipoda	0	0	T	T	0	0	0	0	0	T
Diptera	0	1	T	T	0	0	0	0	0	T
Other	0	0	T	T	0	3	0	T	0	T
Total Mean Density (No./1000 m ³)	15,196	41,218	10,692	45,532	32,689,720	75,258	131,420	179,296	91,932	33,290,263

* Composite of surface, mid-depth, and bottom horizontal tows.

** T = <0.5%.



Table IV-B 4

Abundance (No./1000 Cubic Meters) of Macrozooplankton from Compositeds* Hensen Net
(571 Micron) Tows, Nine Mile Point Vicinity, 1977

TOTAL MACROZOOPLANKTON

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NWPP	80-Ft NWPP	100-Ft NWPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	15584	12055	35631	14119	21445	9624	18148	3863	9091	8758	12221	33367	6660	12321	24209	9990	10922	15196
May	6960	15518	15052	20146	64136	31968	25630	15584	34965	26407	22544	34132	11722	24226	177169	148152	143789	51218
Jun	11022	9357	5661	5861	9690	10256	8641	10756	10356	9923	14752	15251	8025	11594	11488	13486	13986	10692
Jul	43889	105161	86713	5395	7393	4895	42241	102198	97469	46753	8558	4129	5461	44095	2531	105628	56310	45532
Aug	3.4x10 ⁶	3.0x10 ⁶	1.2x10 ⁷	1.4x10 ⁷	4.5x10 ⁷	2.3x10 ⁷	1.7x10 ⁷	5.5x10 ⁶	6.4x10 ⁶	6.1x10 ⁶	6.0x10 ⁷	5.4x10 ⁷	1.0x10 ⁸	3.9x10 ⁷	1.0x10 ⁸	4.7x10 ⁷	7.6x10 ⁶	3.2x10 ⁷
Sep	172627	102031	51948	53280	33367	16850	71684	223110	66180	47719	57343	46220	26640	81202	53114	68365	90076	75258
Oct	225175	226906	140659	75991	70729	180386	153308	183849	167233	94039	107959	83583	192274	138156	57542	42557	122411	131420
Nov	41392	62671	58308	52248	99400	51249	60878	53446	124009	93107	420446	414518	964668	345066	86180	69997	97602	179296
Dec	35498	46254	58575	16583	293506	292441	123809	37396	35331	45255	55345	88878	167566	71628	29504	64269	112587	91932
Annual Mean	4.4x10 ⁵	4.0x10 ⁵	1.4x10 ⁶	1.5x10 ⁶	5.1x10 ⁶	2.6x10 ⁶	1.9x10 ⁶	6.8x10 ⁵	7.8x10 ⁵	7.2x10 ⁵	6.7x10 ⁶	6.1x10 ⁶	1.1x10 ⁷	4.4x10 ⁶	1.1x10 ⁷	5.3x10 ⁶	9.2x10 ⁵	3.3x10 ⁷

* Composite of surface, mid-depth, and bottom horizontal tows.

** Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



Table B-7

ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
NINE MILE POINT VICINITY, 1977

CLADOCERA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMP	80-Ft NMP	100-Ft NMP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	10456	4162	9391	5728	13353	3630	7787	832	2065	2231	4129	14252	1432	4157	1032	233	333	4884
May	3397	3297	4895	7925	10223	466	5034	2298	2930	3463	6660	3896	133	3230	24308	7726	599	5514
Jun	10589	8691	5395	5561	8658	8492	7898	10090	10290	9191	12488	14552	6693	10551	10390	11855	11921	9657
Jul	43490	105161	35881	5128	6760	4595	41836	101765	97469	46620	5361	2231	4429	42979	932	43556	37130	39367
Aug	3.4x10 ⁶	3.0x10 ⁶	1.2x10 ⁷	1.4x10 ⁷	4.5x10 ⁷	2.3x10 ⁷	1.7x10 ⁷	5.5x10 ⁶	6.4x10 ⁶	6.1x10 ⁶	5.9x10 ⁷	5.4x10 ⁷	1.0x10 ⁸	3.9x10 ⁷	1.0x10 ⁸	4.7x10 ⁷	7.5x10 ⁶	3.2x10 ⁷
Sep	171928	102031	51943	53280	33367	16850	71567	223110	86180	46687	56776	46220	26640	80936	53114	68365	59341	73056
Oct	222111	222111	137729	75158	70196	179387	151115	182084	164002	93140	106893	82850	187679	136108	56976	42124	121978	129628
Nov	24209	16633	14552	37829	89044	48751	38528	16415	7992	12721	405960	399800	952180	295511	37096	15984	62071	142892
Dec	31535	42957	57343	15018	271062	274092	115335	29171	31169	40792	49817	77689	144788	62238	25175	57742	103763	83474

*Composite of surface, mid-depth, and bottom horizontal tows.

**Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station, Unit 1.



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Table B-8

ABUNDANCE (NO./1000 CUBIC METERS) OF MACROZOOPLANKTON
FROM COMPOSITED* 1-METER HENSEN NET (571 MICRON) TOWS
NINE MILE POINT VICINITY, 1977

COPEPODA-CALANOIDA

Date	20-Ft Contour**							40-Ft Contour**							60-Ft NMPP	80-Ft NMPP	100-Ft NMPP	Grand Mean
	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean	3-West	1-West	1/2-West	1/2-East	1-East	3-East	Mean				
Apr	5528	7892	26240	8325	8092	5994	10345	2997	7026	6560	8025	19148	5228	8164	23144	9790	10623	10308
May	2997	11921	9690	11255	60939	29138	21023	13120	32035	22611	15584	28039	11222	20435	148518	138029	142624	45195
Jun	233	133	100	0	166	533	194	300	266	133	200	266	333	250	67	433	832	266
Jul	200	0	0	266	599	133	200	0	0	0	2264	1765	932	827	1565	62071	19414	5947
Aug	0	28572	0	0	0	0	4762	26973	0	0	286946	0	392041	117660	0	0	19114	50241
Sep	699	0	0	0	0	0	117	0	0	0	266	0	0	44	0	0	433	93
Oct	3097	4795	2930	866	533	999	2203	1732	3230	899	533	733	4595	1954	566	433	433	1758
Nov	17183	46021	43656	11722	10356	2531	21911	35032	116017	80386	14486	14752	12687	45560	49084	54013	35531	36230
Dec	3563	3263	1232	1498	22444	18348	8392	8192	3996	4262	5528	11189	22777	9324	4362	6527	8824	2400

*Composite of surface, mid-depth, and bottom horizontal tows.

**Stations along contours are established within 3, 1, and 1/2 mile radii east and west of Nine Mile Point Station. Unit 1.

