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Mr. Boyce H. Grier

FROM:
Niagara Mohawk Power Corp.
Syracuse, New York
R. R. Schneider

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DESCRIPTION

ENCLOSURE

Consists of "Errata-1976 Nine Mile Point
Aquatic Ecology Report"...

PLANT NAME:
Nine Mile Point Unit No. 1
RJL 12/19/77

(1-P)

(15-P)

20 ENCL * / REPRO LTR'S

FOR ACTION/INFORMATION

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

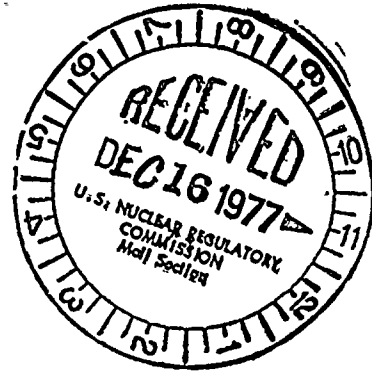
December 12, 1977

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

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

and

James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
DPR-59



Dear Mr. Grier:

My letter of May 27, 1977 transmitted copies of the 1976 Nine Mile Point Aquatic Ecology Studies Report. Enclosed, we herewith submit two (2) copies of the following:

"Errata-1976 Nine Mile Point Aquatic Ecology Report"

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

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

A handwritten signature in cursive script, appearing to read "R. R. Schneider".

R. R. SCHNEIDER
Vice President-Electric Production

MGM/szd

Enclosures (2)

Xcs: Messrs: Ernst Volgenau
William G. McDonald

(20 copies w/enclosure)
(2 copies w/enclosure)

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ERRATA: 1976 NINE MILE POINT AQUATIC ECOLOGY STUDIES

VOLUME I

CHAPTER II

p. II-5 add:

Other Species	Nine Mile Point	FitzPatrick	Lake
<u>Lepomis</u> sp.			L
<u>Notropis</u> sp.		L	L
Trout perch	L	L	L

CHAPTER III

Table III-2: Plant Operating Conditions (Electric Output) during Lake Collections. See attached table for additional dates and change in footnote.

Table III-5: Plant Operating Conditions (Electrical Output) during Viability Sampling Programs - add to footnote: Plant load recorded by LMS personnel at time of sampling

Page III-4: line 10 from top - change to: collections from 1000 hrs. on 3 March to 1000 hrs. on 4 March, and from

Table III-6: Plant Operating Conditions (AT) during Lake Collections. See attached table for additional dates.

CHAPTER IV

Figure IV-6: Concentrations of Calcium, Sodium, and Sulfate: Nine Mile Point Vicinity - Replace footnote with: Mean of depth contours and transects from monthly collections (20 and 40 ft contours at NMPW, NMPP/FITZ, and NMPE), surface samples, except that April and May, Calcium and Sodium are only from NMPE transect.

Page IV-8: line 12 from top - change to: (a measure of dissolved solids) show similar seasonal fluctuations.

CHAPTER V

Figures VA-6, VA-10, VA-11, VA-13, VA-15 - delete the following phrase from the footnote: This species not collected in the remaining samples

Figures VA-6 through VA-16 - add: " \leq " symbol before 10^1 on graph ordinate.



CHAPTER V (Continued)

Table VA-2 follows page V-2 - change footnote to: X = Present at one or more stations; mean of R-1 and R-2; surface collections

CHAPTER VI

Table VIA-2: Periphyton Sampling Program - change in superscripts: change a to b in title and b to a in table

Table VIB-1: Occurrence of Macroinvertebrates in Benthic Collections by Date (see attached table for inclusion of information on Cricotopus, Psectrocladius and Trissocladius)

Figure VIC-2: Buoy Periphyton: Biomass - add to footnote: No samples collected for the remaining stations and dates.

Figure VIC-3: Bottom Periphyton: Biomass - add to footnote: No samples collected for the remaining stations and dates.

CHAPTER VII

Table VII-2: Total Fish Collected by Seines, Trawls, and Gill nets - add footnote: Gill net collections do not include those fish collected for stomach analysis in special gill net sets.

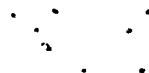
Page VII-16: line 4 (formula) - change to:

$$\text{Coefficient of maturity} = \frac{\text{gonad weight}}{\text{partial weight}} \times 100$$

Figure VII-11: Length Frequency Distribution for Alewife: 15 ft depth contour - add footnote: N = Number of fish analyzed from bottom gill net collections; day and night

Figure VII-12: Length Frequency Distribution for Alewife: 40 ft depth contour - add: N = Number of fish analyzed from surface and bottom gill net collections; no day/night specifications

Figure VII-14: Length Frequency Distribution for Rainbow smelt: 15 ft depth contour - add: N = Number of fish analyzed from bottom gill net collections; day and night.



CHAPTER VII (continued)

Figure VII-15: Length Frequency Distribution for Rainbow smelt: 40 ft. depth contour - add: N = Number of fish analyzed from bottom and surface gill nets; no day/night specifications

Page VII-28: line 3 from bottom - change to: ciency. The bottom area spanned by the Yankee trawl was 29% greater than that sampled by the otter trawl and the water volume fished was 6.9 times as great as that of the otter trawl.

CHAPTER VIII

Table VIIIA-3: Ichthyoplankton (Fish larvae only) and Gammarus Viability Sampling Program - change Discharge procedure outline for May - June collections to: Pump through net for 5 minutes; hold

CHAPTER IX

Table IX-3: Species Inventory of Fishes in Impingement Collections: James A. FitzPatrick Nuclear Power Plant - Change to: ^aTraveling screen, (Table IX-5) collections; one unidentified Salmonidae collected during 1976 in the trash rack collections

Table IX-5: Abundance and percent composition of impingement collections: James A. FitzPatrick Nuclear Power Plant - add footnote: Estimated total number of fish impinged based on the number of fish impinged per hour on the traveling screens

Table IX-11: Abundance and percent composition of impingement collections: Nine Mile Point Nuclear Station Unit 1 - add footnote: Estimated total number of fish impinged based on the number of fish impinged per hour on the traveling screens.



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ERRATA: 1976 NINE MILE POINT AQUATIC ECOLOGY STUDIES

VOLUME II

APPENDIX I

Page IA-10 - line 13 - change to: (Folk, 1974)

REFERENCES CITED: following page IB-18 -- add:

Folk, R.L. 1974. Petrology of sedimentary rocks, Hemphill Publishing Co., Austin, Tx. (Univ. Texas, Geology 370K, 383L, 383M.) 182 p.

APPENDIX II

Table Appendix II-6: change Discharge procedure outline for, May - June collections to: Pump through net for 5 minutes; hold

APPENDIX V

Table Appendix VC-2a and 2b: Abundance of selected species of larvae. These tables include pro-larvae, larvae, and juveniles - change day collections Grand mean; mid-depth samples, 3-NMPE-40 ft station inserting "<" symbol for :

Alewife to <15.7 organisms/1000m³
Rainbow smelt to <0.9 organisms/1000 m³
White Perch to <0.9 organisms/1000 m³

Table Appendix VC-2c: Abundance of selected species of fish eggs in day/night collections - change: Grand mean: mid-depth samples, 3-NMPE-40 ft station

Alewife eggs in day collections to <1.2 organisms/1000 m³

APPENDIX VI

Table Appendix VIB-3: October Collections - change to: H. Flatrock; no crevices and no silt

Table Appendix VIB-5: Abundance and Biomass of selected taxa - clarification of the term "PERCENT" used in the Biomass data presentation: percent by weight of each taxon to the weight of all taxa combined at that station per each collection period



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APPENDIX VI (Continued)

Table Appendix VIB-5: continued

Abundance and Biomass: Ephemeroptera (Arthropoda: Insecta). Add to footnote a: no organisms at this taxon collected at 10' depth contour.

Changes in biomass data base:

OLIGOCHAETA: December: biomass: mean: NMPE-20 ft station:
change to: 0.012 Grand mean: biomass: NMPE-20 ft station:
change to: mean 0.586 percent 4.18

changes in biomass data base, percent column in grand mean designation at NMPE-20 ft station:

AMPHIPODA: 34.79	BIVALVIA: 17.18
DECAPODA: 2.69	GASTROPODA: 38.22
DIPTERA: 1.18	

Table VIB-6b: Abundance of selected species of annelida: Polychaeta
change to: Manayunkia speciosa (spelling correction), add: "60"
to last set in "station" column.

Table Appendix VIC-1b: Chlorophyll a concentrations: Buoy periphyton
substrates - add: superscript "d" to 2 Nov., NMPP/FITZ-17 ft

APPENDIX VII

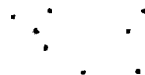
Table Appendix VIID-2b: Abundance of selected species at the 40 ft depth
contour: yellow perch - change to:

	NMPW	NMPP	DAY	FITZ	NMPE	
19-24 Oct	0.8	0.69		0.66	0	mean
	0 - 1.6	1.37 - 0		1.31 - 0	0	range

Table Appendix VIID-3b: Biomass of selected species at the 40 ft depth
contour: Spottail shiner - change to: 29 Apr - 1 May: NMPW: DAY:
mean - range: NF - 231.2

APPENDIX VIII

Table Appendix VIIIB-1: Abundance of zooplankton at the discharge aftbay:
change to: 26 May: CILIATA: Codonella cratera: R-1 1512 R-2 3458 MEAN 2485
22 Sep: CALANOIDA: Calanoid juvenile: MEAN 262.5



APPENDIX VIII (Continued)

Table Appendix VIIIC-2: Mortality of Gammarus fasciatus from day/night collections clarification of footnote 1: Lake collections through the 3 and 2 F isotherms

Table Appendix VIIID-1a: Abundance of selected species of larvae - This table includes pro-larva, larvae, and juveniles.



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TABLE III-2

PLANT OPERATING CONDITIONS (ELECTRICAL OUTPUT) DURING LAKE COLLECTIONS

NINE MILE POINT NUCLEAR STATION UNIT 1 AND JAMES A. FITZPATRICK
NUCLEAR POWER PLANT - 1976

DATE	NINE MILE POINT		FITZPATRICK	
	NO. CIRC. WATER PUMPS	PLANT LOAD (MWE)	NO. CIRC. WATER PUMPS	PLANT LOAD (MWE)
7 APR	2	0	3	601
9 APR	2	0	3	671
14 APR	2	0	3	700
15 APR	2	0	3	684
16 APR	2	0	3	671
19 APR	2	90	3	687
20 APR	2	147	3	697
21 APR	2	334	3	676
22 APR	2	377	3	558
29 APR	2	520	3	726
30 APR	2	540	3	692
10 MAY	2	560	3	743
11 MAY	2	565	3	739
12 MAY	2	566	3	737
13 MAY	2	572	3	315
14 MAY	2	536	2	0
22 MAY	2	562	3	727
23 MAY	2	536	3	704
24 MAY	2	546	3	770
25 MAY	2	572	3	781
26 MAY	2	581	3	781
27 MAY	2	592	3	782
28 MAY	2	591	3	778
2 JUN	2	570	3	771
4 JUN	2	580	3	NA
8 JUN	2	577	2	516
9 JUN	2	578	3	693
10 JUN	2	579	3	764
14 JUN	2	576	3	778
15 JUN	2	576	3	785
16 JUN	2	584	3	782
17 JUN	2	585	3	775
18 JUN	2	584	2	139
21 JUN	2	578	3	710
22 JUN	2	584	3	773
23 JUN	2	336	3	446
24 JUN	2	214	2	505
28 JUN	2	576	3	714
29 JUN	2	577	3	755
30 JUN	2	583	2	215
1 JUL	2	579	2	248
6 JUL	2	477	3	771
7 JUL	2	479	3	773
8 JUL	2	475	3	NA
15 JUL	2	344	2	0
16 JUL	2	365	2	0
19 JUL	2	498	3	637
20 JUL	2	525	3	721
21 JUL	2	524	3	462
27 JUL	2	514	2	0
28 JUL	2	514	2	73
2 AUG	2	522	3	751
3 AUG	2	523	3	748
4 AUG	2	526	3	747
9 AUG	2	468	3	769
10 AUG	2	532	3	771
11 AUG	2	526	3	771
12 AUG	2	531	3	783
17 AUG	2	353	3	788
18 AUG	2	57	3	792
19 AUG	2	377	3	791
20 AUG	2	461	3	785
23 AUG	2	516	3	786
24 AUG	2	521	3	792



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TABLE III-2 (Continued)

PLANT OPERATING CONDITIONS (ELECTRICAL OUTPUT) DURING LAKE COLLECTIONSNINE MILE POINT NUCLEAR STATION UNIT 1 AND JAMES A. FITZPATRICK
NUCLEAR POWER PLANT - 1976

DATE	NINE MILE POINT		FITZPATRICK	
	NO. CIRC. WATER PUMPS	PLANT LOAD (MWE)	NO. CIRC. WATER PUMPS	PLANT LOAD (MWE)
25 AUG	2	520	3	789
26 AUG	2	NA	3	786
27 AUG	2	522	3	763
1 SEP	2	525	3	603
2 SEP	2	529	3	723
3 SEP	2	532	3	772
4 SEP	2	533	3	780
7 SEP	2	532	3	786
8 SEP	2	529	3	785
9 SEP	2	532	3	782
13 SEP	2	532	3	735
14 SEP	2	529	3	731
15 SEP	2	NA	3	733
16 SEP	2	523	3	731
20 SEP	2	521	3	730
23 SEP	2	546	3	735
24 SEP	2	556	3	730
25 SEP	2	557	3	733
26 SEP	2	556	3	733
28 SEP	2	558	3	733
29 SEP	2	557	3	730
30 SEP	2	556	3	730
4 OCT	2	549	3	721
5 OCT	2	551	3	729
6 OCT	2	552	3	728
8 OCT	2	553	3	607
11 OCT	2	553	2	0
12 OCT	2	548	2	0
13 OCT	2	550	2	0
15 OCT	2	549	2	322
19 OCT	2	536	2	512
20 OCT	2	536	2	530
21 OCT	2	NA	2	533
22 OCT	2	548	2	550
23 OCT	2	354	2	616
24 OCT	2	351	3	672
27 OCT	2	550	3	712
30 OCT	2	572	3	581
31 OCT	2	564	3	682
2 NOV	2	574	3	778
3 NOV	2	585	3	770
4 NOV	2	586	3	770
9 NOV	2	548	3	435
12 NOV	2	0	2	0
15 NOV	2	200	2	48
16 NOV	2	436	2	421
17 NOV	2	530	3	647
25 NOV	2	581	2	513
26 NOV	2	577	3	605
27 NOV	2	575	3	660
2 DEC	2	578	3	735
4 DEC	2	577	3	688
6 DEC	2	572	3	707
7 DEC	2	567	3	735
8 DEC	2	567	3	736
10 DEC	2	564	3	718
14 DEC	2	585	3	738
15 DEC	2	584	3	644
16 DEC	2	583	2	NA
19 DEC	2	585	3	587
20 DEC	2	584	3	675

*From Nine Mile Point Unit #1 and James A. FitzPatrick Nuclear Power Plant "401"
Monthly Reports (Niagara Mohawk Power Corp., 1976) mean electrical generation.
NA = Not available

TABLE III-6

PLANT OPERATING CONDITIONS (ΔT) DURING LAKE COLLECTIONS
 NINE MILE POINT NUCLEAR STATION UNIT 1 AND JAMES A. FITZPATRICK
 NUCLEAR POWER PLANT - 1976

DATE	ΔT (C)	
	NINE MILE POINT ^a	JAMES A. FITZPATRICK ^b
7 APR	0.2 ^o	13.9
9 APR	0.2 ^o	15.6
14 APR	0.4 ^o	15.6
15 APR	1.0 ^o	15.7
16 APR	0.5 ^o	15.1
19 APR	4.5 ^o	15.6
20 APR	5.7 ^o	15.6
21 APR	9.5 ^o	15.6
22 APR	10.4	13.3
29 APR	13.9	16.7
30 APR	13.9	16.7
10 MAY	14.8	16.7
11 MAY	14.9	16.7
12 MAY	15.0	16.8
13 MAY	15.1	7.2 ^o
14 MAY	14.4	7.2 ^o
22 MAY	15.1	16.7
23 MAY	14.6	15.6
24 MAY	14.7	17.2
25 MAY	15.4	17.8
26 MAY	15.8	17.8
27 MAY	16.4	17.8
28 MAY	15.9	17.8
2 JUN	15.6	17.8
4 JUN	15.8	8.9 ^o
8 JUN	15.7	15.0
9 JUN	15.9	15.6
10 JUN	16.0	17.2
14 JUN	15.8	17.8
15 JUN	16.1	17.8
16 JUN	16.4	17.2
17 JUN	16.3	17.2
18 JUN	16.6	3.9 ^o
21 JUN	16.9	15.6
22 JUN	16.9	17.4
23 JUN	16.8 ^o	10.0 ^o
24 JUN	15.4 ^o	13.3 ^o
28 JUN	17.2	17.2
29 JUN	17.5	17.8
30 JUN	17.2	5.0 ^o
1 JUL	17.1	8.3 ^o
6 JUL	13.7	17.2
7 JUL	14.3	17.2
8 JUL	14.3	17.4
15 JUL	10.9	0.0 ^o
16 JUL	12.3	0.6 ^o
19 JUL	16.5	14.4
20 JUL	16.7	15.7
21 JUL	16.2	11.1 ^o
27 JUL	16.3	0.0 ^o
28 JUL	16.2	4.4 ^o
2 AUG	13.6	16.1
3 AUG	14.4	16.1
4 AUG	16.1	16.1
9 AUG	15.6	16.7
10 AUG	16.3	16.7
11 AUG	16.2	16.7
12 AUG	16.4	17.2
17 AUG	17.2 ^o	17.9
18 AUG	3.7 ^o	17.8
19 AUG	13.6 ^o	17.8
20 AUG	14.6	17.8
23 AUG	16.1	17.8
24 AUG	16.3	17.9



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TABLE III-6 (Continued)

PLANT OPERATING CONDITIONS (AT) DURING LAKE COLLECTIONS
NINE MILE POINT NUCLEAR STATION UNIT 1 AND JAMES A. FITZPATRICK
NUCLEAR POWER PLANT - 1976

AT (C)		
DATE	NINE MILE POINT ^a	JAMES A. FITZPATRICK ^b
25 AUG	16.1	17.8
26 AUG	16.3	17.8
27 AUG	16.3	17.8
1 SEP	16.6	17.2
2 SEP	16.7	16.7
3 SEP	16.0	17.2
4 SEP	16.6	16.7
7 SEP	16.9	17.2
8 SEP	16.6	17.8
9 SEP	16.4	17.8
13 SEP	16.9	16.7
14 SEP	17.0	16.3
15 SEP	16.7	16.7
16 SEP	16.7	16.1
20 SEP	16.5	16.1
23 SEP	16.8	16.7
24 SEP	17.3	16.1
25 SEP	17.1	16.7
26 SEP	17.1	16.7
28 SEP	17.1	16.1
29 SEP	17.1	16.1
30 SEP	16.9	16.7
4 OCT	17.2	16.1
5 OCT	16.8	16.7
6 OCT	16.0	16.1
8 OCT	16.0	14.4
11 OCT	16.5	0.6 ^c
12 OCT	16.6	0.6 ^c
13 OCT	15.5	0.6 ^c
15 OCT	16.3	10.6
19 OCT	16.3	14.4
20 OCT	16.2	15.6
21 OCT	16.5	15.7
22 OCT	16.6	16.2
23 OCT	11.4	14.5
24 OCT	11.3	15.1
27 OCT	16.3	15.6
30 OCT	17.2	13.3
31 OCT	16.9	14.4
2 NOV	16.8	17.2
3 NOV	17.1	17.2
4 NOV	17.1	17.4
9 NOV	15.5	9.4 ^c
12 NOV	UNIT DOWN	7.2 ^c
15 NOV	9.6 ^c	3.3 ^c
16 NOV	13.3	13.3
17 NOV	15.7	15.2
25 NOV	16.9	13.9
26 NOV	16.8	13.9
27 NOV	16.6	15.0
2 DEC	17.2	16.7
4 DEC	16.9	15.6
6 DEC	16.9	16.1
7 DEC	18.2	16.8
8 DEC	17.0	16.7
10 DEC	17.2	16.1
14 DEC	18.6	17.2
15 DEC	17.5	17.2
16 DEC	15.8	3.9
19 DEC	16.3	13.3
20 DEC	16.6	15.6

^aMean Discharge - Mean Intake Temperature (C) for collection date; from Nine Mile Point Unit #1 "401" Monthly Report (Niagara Mohawk Power Corp., 1976).

^bMean Discharge - Mean Intake Temperature (C) for collection date; from James A. FitzPatrick Nuclear Power Plant "401" Monthly Report (Niagara Mohawk Power Corp., 1976).

^cPlant off-line for some portion of entire day.

UNIT DOWN = Plant off-line, no temperature data available.



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TABLE VIB-1

OCCURRENCE OF MACROINVERTEBRATES IN BENTHIC COLLECTIONS BY DATE

NINE-MILE POINT VICINITY - 1976

	19 APR 14 MAY	15-17 JUN	3, 4, 7 SEP	12, 13 OCT	14 DEC ^a
CNIDARIA (COELENTERATA)					
HYDROZOA	D	D	D	D	D
HYDROIDA - ATHECATA					
CLAVIDAE					
CORDILOPHORA					
C. LACUSTRIS	X	D	D	D	
HYDRIDAE					
HYDRA					
H. AMERICANA	D	D	X	X	D
RHYNCHOCOELA	X	X	X	D	
PLATYHELMINTHES	D	X	X	D	
TURBELLARIA	X	X			
TRICLADIDA					
PLANARIIDAE	D	X	X	D	
ASCHELMINTHES					
NEMATODA	D	D	D	D	X
CHROMADOROIDEA					
PLECTIDAE					
ANONCHUS	X			X	
ENOPLIDA					
ALAIMIDAE					
ALAIMUS	X	X	X	X	
DORYLAIMIDA					
DORYLAIMIDAE					
DORYLAIMUS	D	D	D	D	X
RHABDITIDA					
RHABDITIDEA					
EUTLERIUS	X	X			
MOLLUSCA					
GASTROPODA	D	D	D	D	D
PROSOBRANCHIA - MESOGASTROPODA					
VALVATIDAE	X				
VALVATA	X	X	X	X	
V. PERDEPRESSA	D	D	D	D	D
V. SINCERA				X	
V. PISCINALIS		X	X	X	
V. TRICARINATA PERCONFUSA				X	
BULIMIDAE (HYDROBIIDAE)	X			X	
AMNICOLA	X	X	D	D	X
A. INTEGRA	D	D	D	D	D
A. LIMOSA	X	D	D	D	X
AMNICOLA SP.		X			
A. LUSTRICA	X	X	D	D	
BITHINIA					
B. TENTACULATA	X	D	X	X	
PLEURO CERIDAE	X				
GONIOBASIS			X		
G. LIVESCENS	D	X	D	D	X



TABLE VIB-1

OCCURRENCE OF MACROINVERTEBRATES IN BENTHIC COLLECTIONS BY DATE

NINE MILE POINT VICINITY - 1976

	19 APR 14 MAY	15-17 JUN	3, 4, 7 SEP	12, 13 OCT	14 DEC ^a
MOLLUSCA (CONT)					
GASTROPODA (CONT)					
PULMONATA - BASOMMATOPHORA					
PHYSIDAE					
PHYSA	X	D	X	X	
P. INTEGRA	X	X	X	X	
P. SAYII	X	X			X
P. HETEROSTROPHA ^b		X			
P. ELLIPTICA ^b		X		X	
LYMNAEIDAE	X				
LYMNAEA	X	X	X	X	
L. CATASCOPIUM ^b	X	X	X	X	X
L. EMARGINATA ^b				X	
PLANORBIDAE					
GYRAULUS					
G. PARVUS	X	X	X	X	
HELISOMA			X	X	
H. ANCEPS	X	X	X	X	
H. TRIVOLVIS				X	
ANCYLIDAE				X	
FERRISSIA	X				X
F. TARDA	X	X		X	
LAEVAPEX					
L. FUSCUS	X				
BIVALVIA (PELECYPODA)	D	D	D	D	D
EULAMELLIBRANCHIA					
MARGARITIFARIDAE					
ADADONTA					
A. GRANDIS				X	
UNIONIDAE	X		X	X	
HETERODONTIDA					
SPHAERIIDAE			X		
MUSCULIUM			X	X	
PISIDIUM	D	D	D	D	D
SPHAERIUM	D	D	D	D	D
ANNELIDA					
POLYCHAETA	D	D	D	D	
SABELLIDA					
SABELLIDAE					
MANAYUNKIA					
M. SPECIOSA	D	D	D	D	
OLIGOCHAETA	D	D	D	D	D
PROSOPORA					
LUMBRICULIDAE	X			X	
STYLODRILUS					
S. HERINGIANUS	D	X	X	X	
PLESIOPORA					
TUBIFICIDAE	D	D	D	D	D
AULODRILUS	X			X	
A. AMERICANUS	X	X	X		
A. LIMNOBIUS		X	X	X	X
A. PLURISETA	X	X	D	X	
A. PIQUETI	X	X	X	X	X
LIMNODRILUS					
L. HOFFMEISTERI	D	D	X	X	
L. UDEKEMIANUS	X	X			
L. CLAPAREDIANUS	X				
L. PROFUNDICOLA	X	X	X	X	
L. HOFFMEISTERI VARIANT		X	X		

TABLE VIB-1

OCCURRENCE OF MACROINVERTEBRATES IN BENTHIC COLLECTIONS BY DATE

NINE MILE POINT VICINITY - 1976

	19 APR 14 MAY	15-17 JUN	3, 4, 7 SEP	12, 13 OCT	14 DEC ^a
ANNELIDA (CONT)					
OLIGOCHAETA (CONT)					
PLESIOPORA (CONT)					
TUBIFICIDAE (CONT)					
ILYODRILUS					
I. TEMPLETONI		X			
PELOSCOLEX					
P. FREYI	X	X		X	
P. FEROX	X		X		
P. MULTISETOSUS MULTISETOSUS		X	X	X	
P. MULTISETOSUS LONGIDENTUS	X		X	X	
TUBIFEX					
T. IGNOTUS	X				
T. TUBIFEX	X	X			
UID TUBIFICIDAE		X			
POTAMOTHRIX				X	
P. MOLDAVIENSIS	D	D	D	X	X
P. VEJDOVSKYI	D	D	X	D	X
NAIDIDAE	X	X	X	X	
ARCTEONAIIS					
A. LOMONDI		X			
NAIS		X			
N. BRETSCHERI	D	D	X	X	
N. ELINGUIS		X		X	
N. SIMPLEX	X	X			
PARAMAIS					
P. SIMPLEX ^b	X	X			
PIGUETIELLA					
P. MICHIGANENSIS	X	X	X	X	
CHAETOGASTER					
C. DIASTROPHIS		X	X	X	
SPECARIA					
S. JOSINAE ^b		X			
STYLARIA					
S. LACUSTRIS	X	X		X	
UNICINAIIS					
U. UNCINATA	X	X	X	X	
VEJKOVSKYELLA					
V. INTERMEDIA	X	X	X		
PRISTINA		X	X	X	
P. AEGUISETA ^b				X	
P. OSBORNII			X		
ENCHYTRAETIDAE	X	X	X	X	
HIRUDINEA			X	X	
RHYNCHOBDELLIDA					
GLOSSIPHONIIDAE					
HELOBDELLA					
H. STAGNALIS				X	
PISCICOLIDAE					
PISCICOLA			X		
ARTHROPODA					
ARACHNIDA					
ACARI	D	D	D	D	D
LIMNESIIDAE					
LIMNESIA	X	X	X	X	



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TABLE VIB-1

OCCURRENCE OF MACROINVERTEBRATES IN BENTHIC COLLECTIONS BY DATE

NINE MILE POINT VICINITY - 1976

	19 APR 14 MAY	15-17 JUN	3, 4, 7 SEP	12, 13 OCT	14 DEC ^a
ARTHROPODA (CONT)					
ARACHNIDA (CONT)					
ACARI (CONT)					
HYGROBATIDAE					
HYGROBATES		X	X	X	
HYGROBATES SP. 1	D	D	D	D	X
HYGROBATES SP. 3	X	X		D	X
HYGROBATES SP. 4	X	X	X		
HYGROBATES SP. 5				X	
UNIONICOLIDAE					
NEUMANIA		X			
UNIONICOLA	X			X	
UNIONICOLA SP. 1	X	D	X	X	
UNIONICOLA SP. 2				X	
PIONIDAE					
FORELIA	X	D	X	X	
PIONA		X	X	X	
LEBERTIIDAE					
LEBERTIA	D	D	X	D	
TORRENTICOLIDAE					
TORRENTICOLA			X		
INSECTA					
EPHEMEROPTERA	X	X		X	
HEPTAGENIIDAE					
STENONEMA	X	X		X	
TRICHOPTERA	X	D	X	X	X
HYDROPTILIDAE		X			
AGRAYLEA	X	X			
LEPTOCERIDAE		X			
OECETIS	X	X	X	X	
ARTHRIPODES	X	D	X	X	
LEPTOCERUS					
L. AMERICANUS				X	
HYDROPSYCHIDAE					
CHEUMATOPSYCHE SP.					X
DIPTERA	D	D	D	D	D
TENDIPEDIDAE (CHIRONOMIDAE)	D	X	X	X	
CHIRONOMUS	X	X	D	D	
CLADOTANYTARSUS		X	X		
COELOTANYPUS			X		
CRICOTOPUS	D	X	X	X	
CRYPTOCHIRONOMUS	D	X	X	X	
DEMICRYPTOCHIRONOMUS	X	X	X	X	
DICROTENDIPES	X	X	X	X	
ENDOCHIRONOMUS			X		
GLYPTOTENDIPES		X	X		
CRYPTOCLADOPELMA (HARNISCHIA)		X			
HETEROTRISOCLADIUS	X		X		
MICROPSECTRA	X	X	X		
MICROTENDIPES	X	X	X	X	
PARACLAPELMA	X	X	X		
PARACHIRONOMUS	X	X	X		
PHAENOPSECTRA	X		X		
POLYPEDILUM	X	D		X	
PROCLADIUS	X	X	X	X	
PSEUDOCIRONOMUS	X	X	D	X	
PSECTROCLADIUS SPP.	X	X	X		
PSECTROCLADIUS SP. III	X	X			
POTTHASTIA	X		X	X	X



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TABLE VIB-1

OCCURRENCE OF MACROINVERTEBRATES IN BENTHIC COLLECTIONS BY DATE

NINE MILE POINT VICINITY - 1976

	19 APR 14 MAY	15-17 JUN	3, 4, 7 SEP	12, 13 OCT	14 DEC ^a
ARTHROPODA (CONT)					
INSECTA (CONT)					
DIPTERA (CONT)					
TENDIPEDIDAE (CHIRONOMIDAE) (CONT)					
RHEOTANYTARSUS	D	X	D	X	
STICTOCHIRONOMUS	X	X	X		
TRISSOCLADIUS	X				
XENOCHIRONOMUS	X				
EINFELDIA ^b		X			
TANYTARSUS (+MICROPSECTRA)	X	X	D		
PARATANYTARSUS		X			
CERATOPOGONIDAE		X			
EMPIDIDAE	X				
CRUSTACEA					
ISOPODA	X	X	X	X	
ASELLIDAE					
ASELLUS	X	X	X	X	
AMPHIPODA	D	D	D	D	D
GAMMARIDAE			X	D	D
GAMMARUS			X		
G. FASCIATUS	D	D	D	D	
CRANGONYX	X	X	X	X	
HAUSTORIIDAE					
PONTOPOREIA					
P. AFFINIS	D	D	D	D	D
TALITRIDAE					
HYALELLA					
H. AZTECA	X		X		
MYSIDACEA	X				
MYSIDAE					
MYSIS					
M. OCULATA RELICTA	X				
DECAPODA	X	X	X	X	
ASTACIDAE					
CAMBARUS					
C. BARTONI		X			
ORCONECTES					
O. PROPINQUUS PROPINQUUS	X	X	X		
OSTRACODA	D	D	D	D	X
BRYOZOA	D	D	D	D	

X - Presence in one or more samples at one or more stations per collection period
D - Abundance of $\geq 5\%$ of total benthos in one or more samples at one or more stations per collection period

^a Collections made at only two stations (NMPE-20-ft [R-1] and NMPE-30-ft [R-1 and R-2])
^b Identification pending

