



**Public Service  
of New Hampshire**

A Northeast Utilities Company

Admin # 295

PSNH Energy Park  
780 North Commercial Street, Manchester, NH 03101

Public Service Company of New Hampshire  
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September 27, 2011

D30341

U.S. Environmental Protection Agency  
Region 1: New England  
Office of Ecosystem Protection  
Water Technical Unit (OES04 – SMR)  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912

Dear Sir/Madam:

Merrimack Station  
NPDES Permit No. NH0001465  
2010 Annual Fish Impingement Report

Public Service of New Hampshire (PSNH) submits this Annual Fish Impingement Report for the year 2010 pursuant to Part I., Section A.10.b of the Merrimack Station NPDES Permit, No. NH0001465. This permit condition requires PSNH to conduct impingement monitoring at Merrimack Station according to the provisions below.

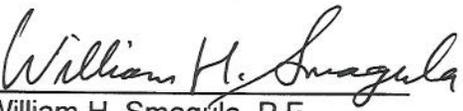
- PSNH shall provide impingement monitoring at Merrimack Station when flows from Garvins Falls Hydroelectric Station are less than 900 cfs during any period from July 1 through October 15.
- PSNH shall collect all fish from both MK-1 and MK-2 traveling screen washes during one continuous 48-hour period per week when the conditions outlined above are met.
- PSNH shall report in writing to the New Hampshire Fish & Game Department (NHFGD), United States Fish and Wildlife Service (USFWS), New Hampshire Department of Environmental Services (NHDES) and the United States Environmental Protection Agency (USEPA) any Extraordinary Impingement Event (EIE) at Merrimack Station. An EIE is defined as an event when 50 or more fish at any one time, of any size or species, are either distressed or killed as a result of impingement.

Based on river flows at Garvins Falls Hydro, Merrimack Station was required to collect fourteen weekly samples from the intake screens between July 1 and October 15. A total of sixty-seven fish were collected in the fourteen samples. Impingement rates for the sampling periods were calculated by dividing the total number of fish collected by the total volume of water passed through the units. The volume of water reported is based on circulating pump capacities and the number of pumps operating during each screen wash cycle. Each operating unit has two pumps; the pumps servicing Unit 1 are rated at 63 cfs each (126 cfs total), the pumps servicing Unit 2 are rated at 144.5 cfs each (289 cfs total).

Table 1 summarizes the total number of fish collected and the impingement rate for each sampling period. The average impingement rate for 2010 was 0.07 fish per million cubic feet of screened water. As demonstrated every year, the rate of fish impingement at Merrimack Station is extremely low by all industry standards even though the data is collected during worse case conditions, i.e., when river flows are less than 900 cfs. Table 2 identifies the impinged fish by common name as well as the respective total lengths. There were also seven reported findings of decomposed fish or parts of fish that were collected on the screens which are not included in Table 2. Table 3 provides corresponding scientific names of the fish species commonly found in this section of the Merrimack River. There were no extraordinary impingement events during the 2010 monitoring period.

Should you have any questions regarding this program, please contact Allan Palmer at (603) 634-2439.

Very truly yours,

  
William H. Smagula, P.E.  
Director - Generation

cc: Ms. Sharon M. DeMeo  
US Environmental Protection Agency  
Region 1: New England  
Office of Ecosystem Protection  
Mail Code: OEP06-4  
5 Post Office Square - Suite 100  
Boston, MA 02109-3912

Mr. Eric Nelson  
US Environmental Protection Agency  
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Boston, MA 02109-3912

NH Department of Environmental Services  
Water Division.  
Wastewater Engineering Bureau  
Permits and Compliance Section  
29 Hazen Drive, P.O. Box 95  
Concord, NH 03302-0095

Mr. Joseph F. McKeon  
US Fish and Wildlife Service  
Central New England Fishery Resources Office  
151 Broad Street  
Nashua, NH 03063

Mr. John Magee  
New Hampshire Fish and Game Department  
Inland Fisheries Division  
11 Hazen Drive  
Concord, NH 03301

TABLE 1

Merrimack Station  
Fish Impingement Monitoring Program  
2010 Schedule & Impingement Rates

48 Hour Sample Dates	Unit(s) Sampled	48 Hour Flow Through the Units	Impingement Rate	Fish Count
07/02 - 07/04	1&2	71,712,000 cu. ft.	0	0
07/06 - 07/08	1&2	71,712,000 cu. ft.	0.03/million cu. ft.	2
07/13 - 07/15	1&2	71,712,000 cu. ft.	0	0
07/19 - 07/21	1&2	71,712,000 cu. ft.	0.07/million cu. ft.	5
07/30 - 08/01	1&2	71,712,000 cu. ft.	0.03/million cu. ft.	2
08/02 - 08/04	1&2	71,712,000 cu. ft.	0.06/million cu. ft.	4
08/08 - 08/10	1&2	71,712,000 cu. ft.	0.01/million cu. ft.	1
08/17 - 08/19	1&2	71,712,000 cu. ft.	0.07/million cu. ft.	5
08/22 - 08/24	1&2	71,712,000 cu. ft.	0.07/million cu. ft.	5
08/29 - 08/31	1&2	71,712,000 cu. ft.	0.06/million cu. ft.	4
09/05 - 09/07	1&2	71,712,000 cu. ft.	0.07/million cu. ft.	5
09/12 - 09/14	1&2	71,712,000 cu. ft.	0.18/million cu. ft.	13
09/20 - 09/22	1&2	71,712,000 cu. ft.	0.24/million cu. ft.	17
09/26 - 09/28	1	21,772,800 cu. ft.	0.18/million cu. ft.	4

Both units were off-line during the first two weeks of October.

The average impingement rate for the fourteen sampling periods was 0.07 fish per million cubic feet of screened water.

TABLE 2

Merrimack Station  
 Fish Species Collected During Impingement Monitoring  
July 1, 2010 through October 15, 2010

<u>Sampling Period</u>	<u>Fish Species Collected</u>	<u>Total Length (cm)</u>
07/06 - 07/08	Bluegill Sunfish	19.0
	Rainbow Trout	29.5
07/19 - 07/21	Smallmouth Bass	12.0
	Smallmouth Bass	10.0
	Smallmouth Bass	8.0
	Smallmouth Bass	8.0
	Largemouth Bass	8.0
07/30 - 08/01	Alewife	8.0
	Smallmouth Bass	7.6
08/02 - 08/04	Smallmouth Bass	7.0
	Smallmouth Bass	7.5
	Smallmouth Bass	6.5
	Smallmouth Bass	6.0
08/08 - 08/10	Redbreasted Sunfish	16.0
08/17 - 08/19	Alewife	16.0
	Common Shiner	3.0
	Common Shiner	3.0
	Common Shiner	5.0
	Common Shiner	2.0

08/22 - 08/24	Alewife	7.0
	Alewife	7.0
	Alewife	7.0
	Alewife	9.0
	Alewife	9.0
08/29 - 08/31	Alewife	9.0
	Smallmouth Bass	5.5
	Pumpkinseed Sunfish	7.0
	Brown Bullhead	15.0
09/05 - 09/07	Alewife	9.0
	Alewife	9.0
	Alewife	10.0
	Smallmouth Bass	49.0
	Creek Chub	27.0
09/12 - 09/14	Alewife	5.0
	Alewife	5.0
	Alewife	5.0
	Alewife	4.0
	Redbreasted Sunfish	9.0
	Redbreasted Sunfish	8.0

09/20 - 09/22	Smallmouth Bass	12.0
	Smallmouth Bass	7.5
	Smallmouth Bass	10.5
	Smallmouth Bass	5.5
	Pumpkinseed Sunfish	7.0
	Pumpkinseed Sunfish	7.0
	Redbreasted Sunfish	24.0
	Common Shiner	4.5
	Common Shiner	4.5
	Common Shiner	5.5
	Common Shiner	4.5
	Common Shiner	4.5
	Common Shiner	5.5
	Common Shiner	5.0
	Common Shiner	5.0
	Common Shiner	9.0
09/26 - 09/28	Smallmouth Bass	3.0
	Smallmouth Bass	3.0
	Smallmouth Bass	5.0
	Redbreasted Sunfish	10.5

TABLE 3

Merrimack Station  
 Scientific Names of Species  
Common in the Merrimack River

Smallmouth Bass	<i>Micropterus dolomieu</i>
Largemouth Bass	<i>Micropterus salmoides</i>
Bluegill Sunfish	<i>Lepomis macrochirus</i>
Pumpkinseed Sunfish	<i>Lepomis gibbosus</i>
Redbreasted Sunfish	<i>Lepomis auritus</i>
Brown Bullhead	<i>Ictalurus nebulosus</i>
White Sucker	<i>Catastamus commersoni</i>
Yellow Perch	<i>Perca flavescens</i>
Common Shiner	<i>Notropis cornutus</i>
Spottail Shiner	<i>Notropis hudsonius</i>
Alewife	<i>Alosa pseudoharengus</i>
Chain Pickerel	<i>Esox niger</i>
Northern Pike	<i>Esox lucius</i>
Creek Chub	<i>Semotilus atromacultas</i>
Common Carp	<i>Cyprinus carpio</i>
American Eel	<i>Anguilla rostrata</i>

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Public Service of  
New Hampshire

# MERRIMACK STATION FISH IMPINGEMENT MONITORING REPORT

## JULY 1 TO OCTOBER 15 2010

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 7-3-10

**SAMPLING PERIOD**  
 Begin 7-2-10  
 End 7-4-10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
② Very decayed.	-	-																		
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 7-10-10

**SAMPLING PERIOD**  
Begin 7-6-10  
End 7-8-10

**UNIT STATUS**  
MK-1 ON  
MK-2 ON

**CIRC PUMP STATUS**  
MK-1 A+B  
MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish	19																			
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Head only	-																			
Additional Fish																				
Rainbow trout	29.5																			

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 7-17-10

**SAMPLING PERIOD**  
 Begin 7-13-10  
 End 7-15-10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
<u>Decomposed</u>	<u>31.0</u>																			
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 7-24-10

**SAMPLING PERIOD**  
 Begin 7-19-10  
 End 7-21-10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass	12	10	8	8																
Largemouth Bass	8																			
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 7-31-10

**SAMPLING PERIOD**  
 Begin 7-30-10  
 End 8-1-10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	80																			
American Shad																				
Small mouth Bass	7.6																			
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Pieces of fish	-																			
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 8-7-10

SAMPLING PERIOD  
 Begin 

8/2/10
--------

  
 End 

8/4/10
--------

UNIT STATUS  
 MK-1 

ON
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 MK-2 

ON
----

CIRC PUMP STATUS  
 MK-1 

A+B
-----

  
 MK-2 

A+B
-----

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass	7.0	7.5	6.5	6.0																
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Pieces of fish	-																			
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 8-14-10

**SAMPLING PERIOD**  
 Begin 8/8/10  
 End 8/10/10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish	10cm																			
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 8/21/10

SAMPLING PERIOD  
 Begin 8/17/10  
 End 8/19/10

UNIT STATUS  
 MK-1 ON  
 MK-2 ON

CIRC PUMP STATUS  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	10.0																			
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner	3.0	3.0	5.0	2.0																
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 8/28/10

**SAMPLING PERIOD**  
 Begin 

8	22	10
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 End 

8	24	10
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**UNIT STATUS**  
 MK-1 

ON
----

  
 MK-2 

ON
----

**CIRC PUMP STATUS**  
 MK-1 

A+B
-----

  
 MK-2 

A+B
-----

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	7.0	7.0	7.0	9.0	9.0															
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Decomposed	19.0																			
Decomposed	28.0																			
Additional Fish																				

VKH

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 9/4/10

SAMPLING PERIOD  
 Begin 

8/29/10
---------

  
 End 

8/31/10
---------

UNIT STATUS  
 MK-1 

ON
----

  
 MK-2 

ON
----

CIRC PUMP STATUS  
 MK-1 

A+B
-----

  
 MK-2 

A+B
-----

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	9.0																			
American Shad																				
Small mouth Bass	5.5																			
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish	7.0																			
Redbreasted Sunfish																				
Brown Bullhead	15.0																			
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
2 fish pieces	—																			
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 9/11/10

**SAMPLING PERIOD**  
 Begin 

9	5	10
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 End 

9	7	10
---	---	----

**UNIT STATUS**  
 MK-1 

ON
----

  
 MK-2 

ON
----

**CIRC PUMP STATUS**  
 MK-1 

A+B
-----

  
 MK-2 

A+B
-----

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	9.0	9.0	10.0																	
American Shad																				
Small mouth Bass			49.0																	
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				
Creek Chub	27.0																			

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 9/18/10

**SAMPLING PERIOD**  
 Begin 9/12/10  
 End 9/14/10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0									
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish	9.0	8.0																		
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 9/25/10

**SAMPLING PERIOD**  
 Begin 9/20/10  
 End 9/22/10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 ON

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 A+B

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass	12.0	7.5	10.5	5.5																
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish	7.0	7.0																		
Redbreasted Sunfish	24.0																			
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner	4.5	4.5	5.5	4.5	4.5	5.5	5.0	5.0	5.0	9.0										
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

*WPH*

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 10/02/10

**SAMPLING PERIOD**  
 Begin 9/26/10  
 End 9/28/10

**UNIT STATUS**  
 MK-1 ON  
 MK-2 OFF (A.O.)

**CIRC PUMP STATUS**  
 MK-1 A+B  
 MK-2 —

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass	3.0	3.0	5.0																	
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish	10.5																			
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 10/09/10

**SAMPLING PERIOD**

Begin	
End	

**UNIT STATUS**

MK-1	F.O.
MK-2	A.O.

**CIRC PUMP STATUS**

MK-1	OFF
MK-2	OFF

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				

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# FISH IMPINGEMENT MONITORING WEEKLY DATA SHEET MERRIMACK STATION

Week Ending 10/16/10

SAMPLING PERIOD

Begin	/
End	

UNIT STATUS

MK-1	F.O.
MK-2	A.O.

CIRC PUMP STATUS

MK-1	OFF
MK-2	OFF

Species	Total length (TL) of up to 20 fish per species measured to the nearest centimeter (cm)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Alewife																				
American Shad																				
Small mouth Bass																				
Largemouth Bass																				
Bluegill Sunfish																				
Pumpkinseed Sunfish																				
Redbreasted Sunfish																				
Brown Bullhead																				
White Sucker																				
Yellow Perch																				
Common Shiner																				
Spottail Shiner																				
American eel																				
Unidentified Species																				
Additional Fish																				