

## **Appendix 11**

### **Rating Curves**

# 1. Habitat Rating Curves under Current Conditions

## 1.1 Resident species spawning bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Spawn  
Effective Habitat

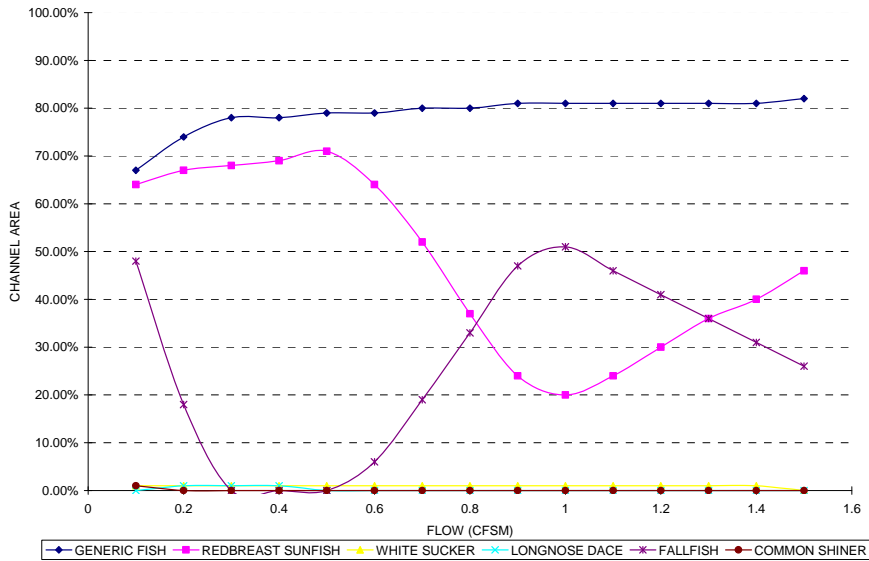


Figure 1 - Effective habitat rating curves for fish at Site 1 during the resident species spawning bioperiod under current conditions.



Suitability Curve(s) for Site: 2a

Project: Lamprey River Spawn  
Effective Habitat

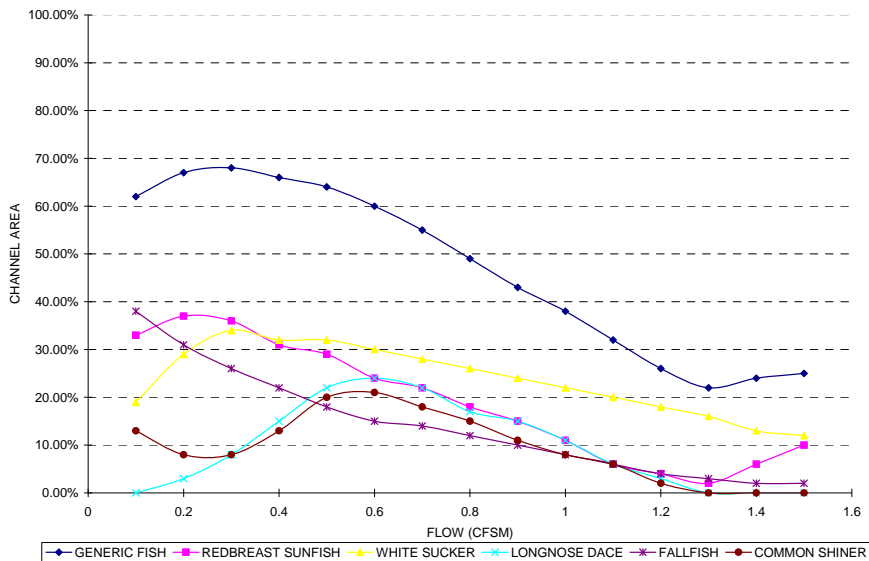
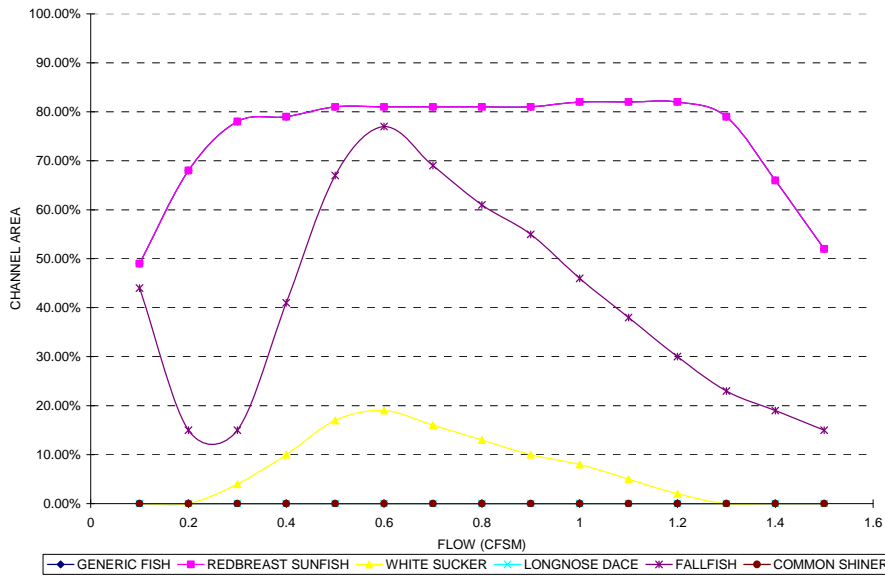
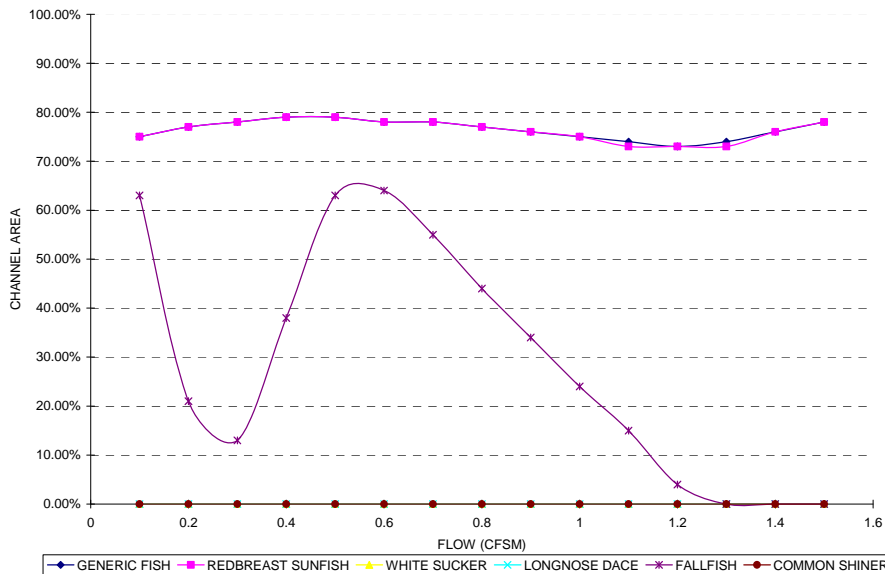


Figure 2 - Effective habitat rating curves for fish at Site 2a during the resident species spawning bioperiod under current conditions.



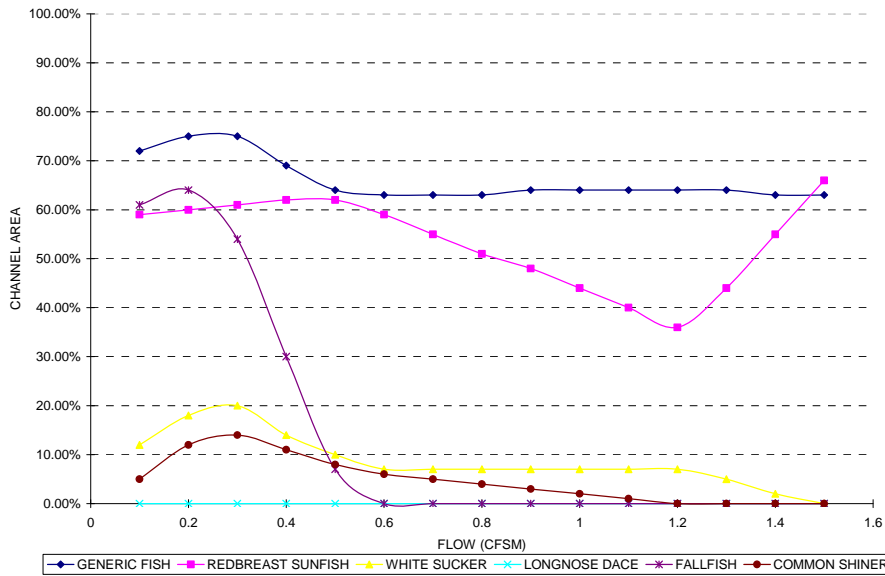
**Figure 3 - Effective habitat rating curves for fish at Site 2b during the resident species spawning bioperiod under current conditions.**



**Figure 4 - Effective habitat rating curves for fish at Site 3 during the resident species spawning bioperiod under current conditions.**

Suitability Curve(s) for Site: 4

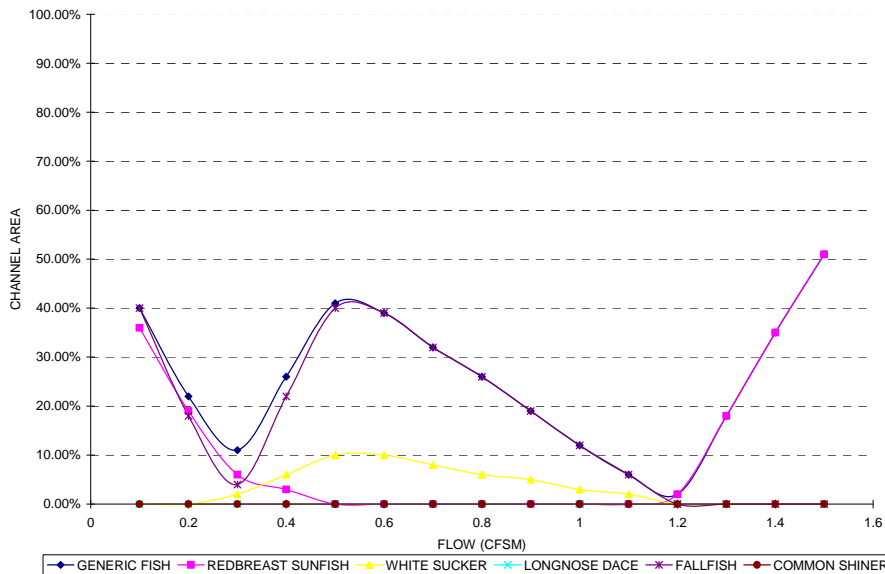
Project: Lamprey River Spawn  
Effective Habitat



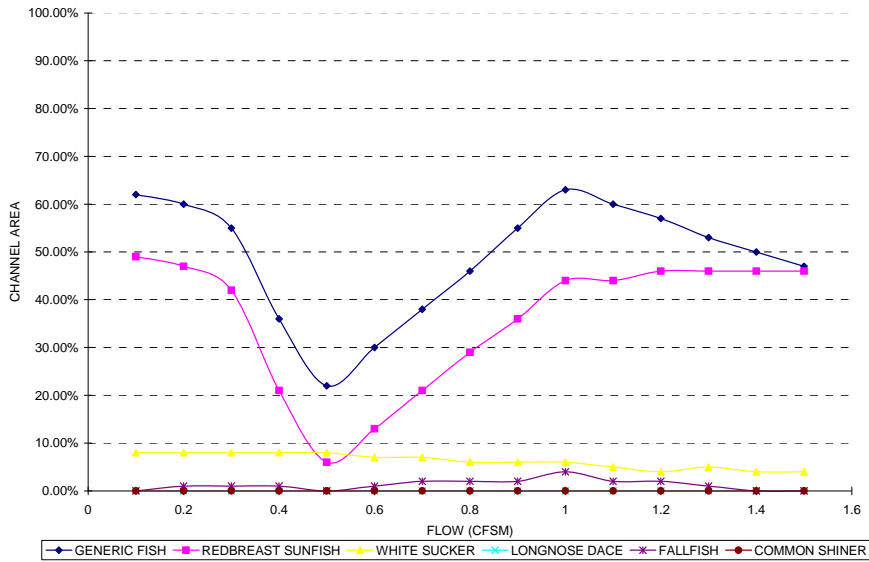
**Figure 5 - Effective habitat rating curves for fish at Site 4 during the resident species spawning bioperiod under current conditions.**

Suitability Curve(s) for Site: 5

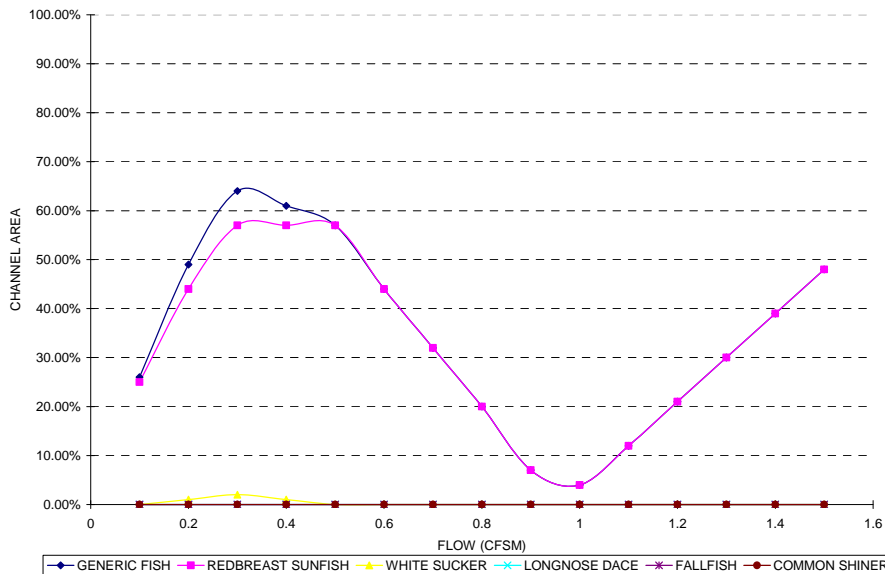
Project: Lamprey River Spawn  
Effective Habitat



**Figure 6 - Effective habitat rating curves for fish at Site 5 during the resident species spawning bioperiod under current conditions.**



**Figure 7 - Effective habitat rating curves for fish at Site 6 during the resident species spawning bioperiod under current conditions.**

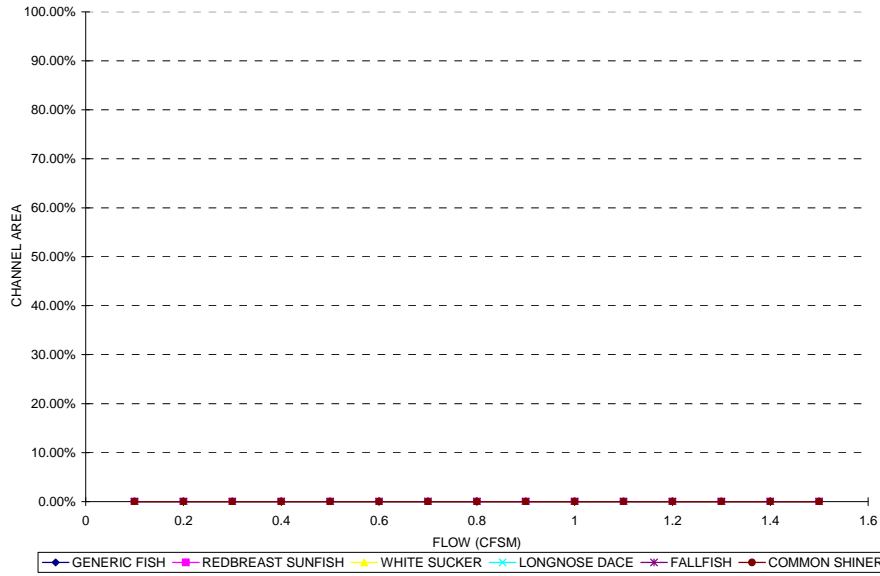


**Figure 8 - Effective habitat rating curves for fish at Site 7 during the resident species spawning bioperiod under current conditions.**



Suitability Curve(s) for Site: 8

Project: Lamprey River Spawn  
 Effective Habitat



**Figure 9 - Effective habitat rating curves for fish at Site 8 during the resident species spawning bioperiod under current conditions.**

## 1.2 Anadromous species spawning bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Spawn  
Effective Habitat

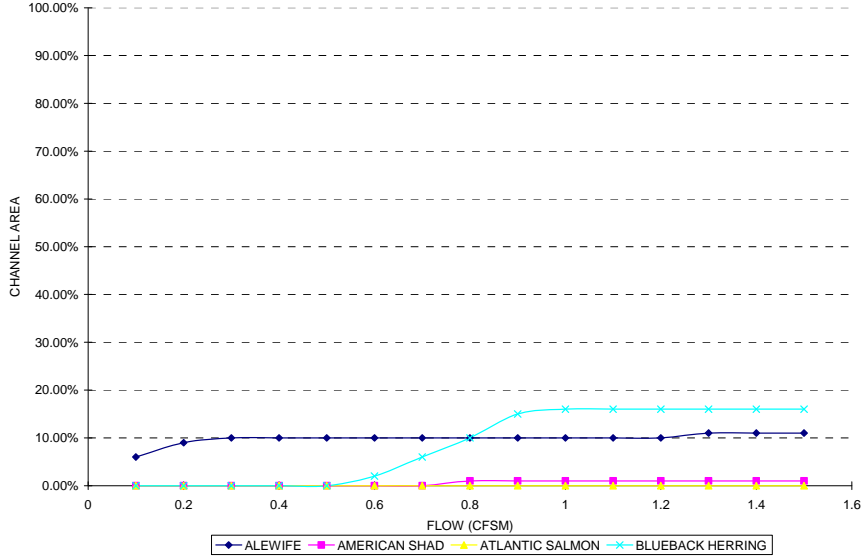


Figure 10 - Effective habitat rating curves for fish at Site 1 during the anadromous species spawning bioperiod under current conditions.



Suitability Curve(s) for Site: 2a

Project: Lamprey River Spawn  
Effective Habitat

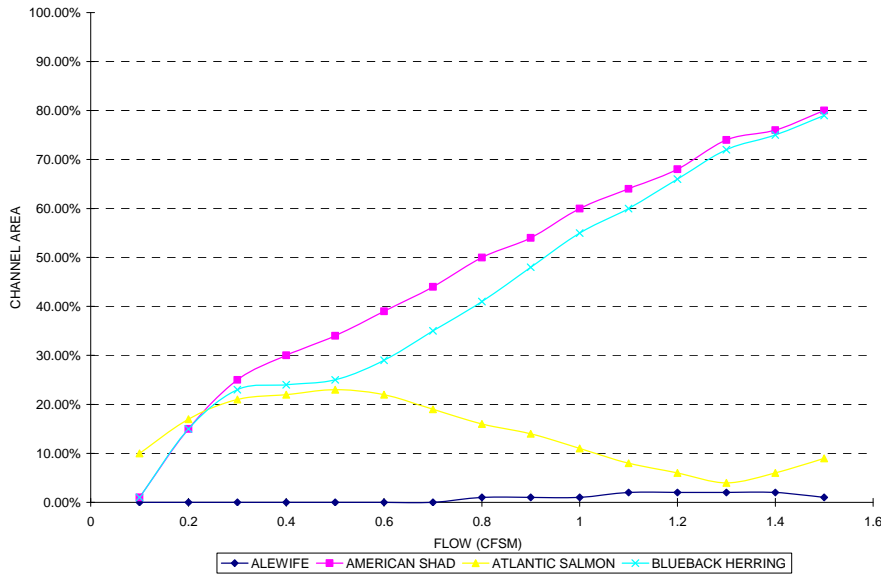
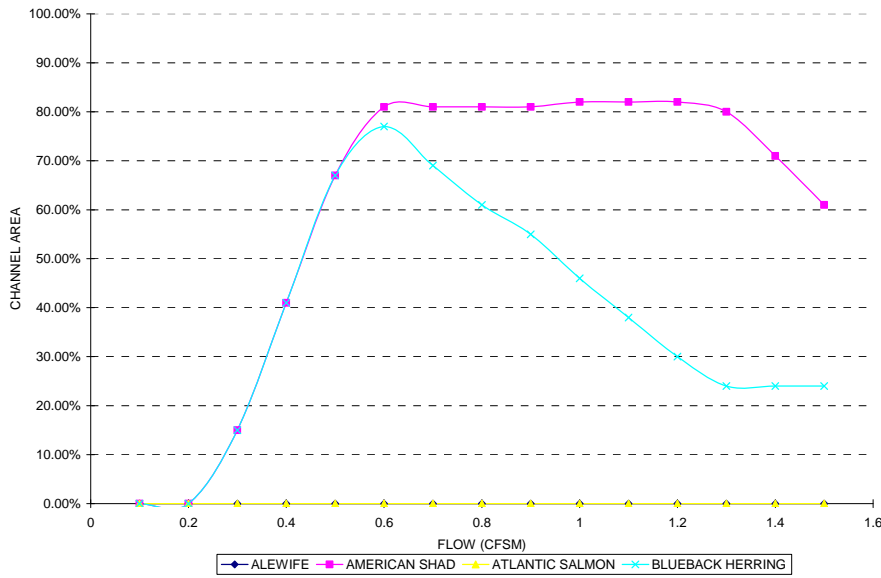


Figure 11 - Effective habitat rating curves for fish at Site 2a during the anadromous species spawning bioperiod under current conditions.

Suitability Curve(s) for Site: 2b

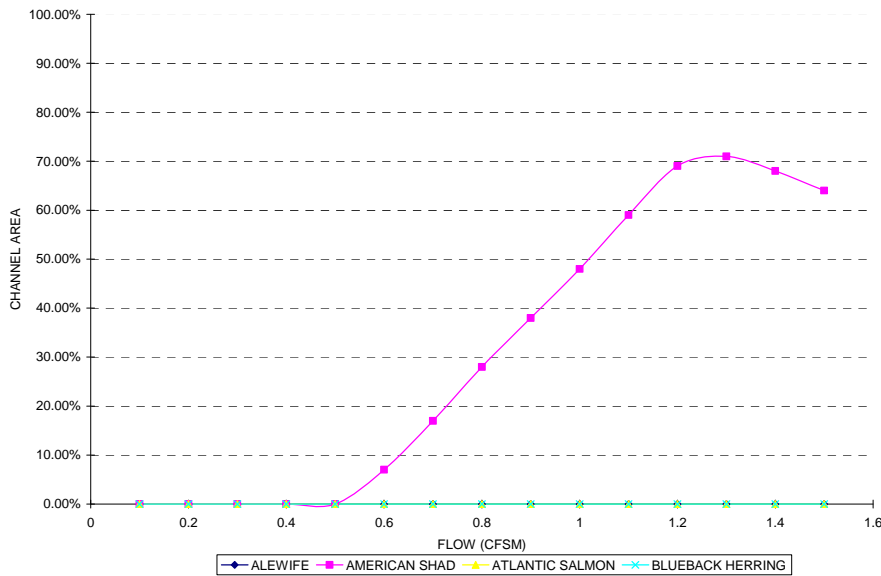
Project: Lamprey River Spawn  
Effective Habitat



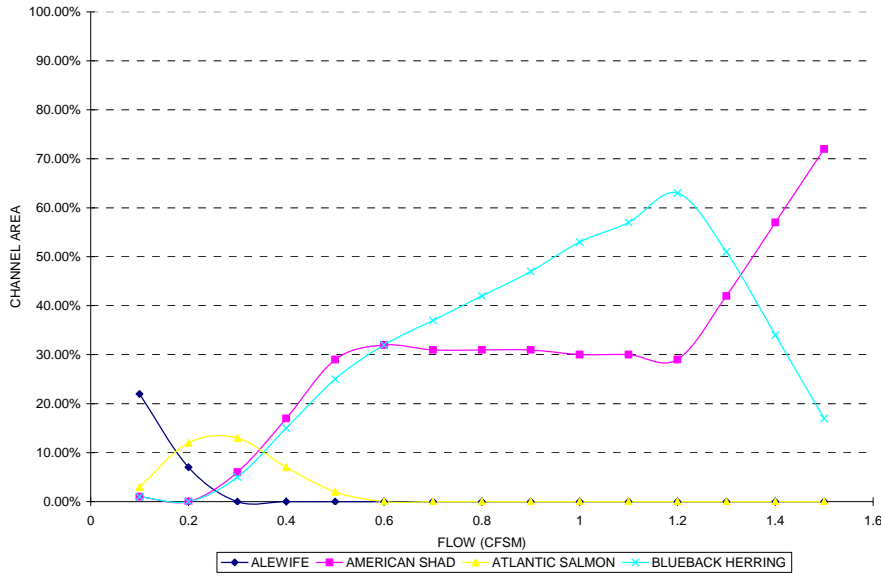
**Figure 12 - Effective habitat rating curves for fish at Site 2b during the anadromous species spawning bioperiod under current conditions.**

Suitability Curve(s) for Site: 3

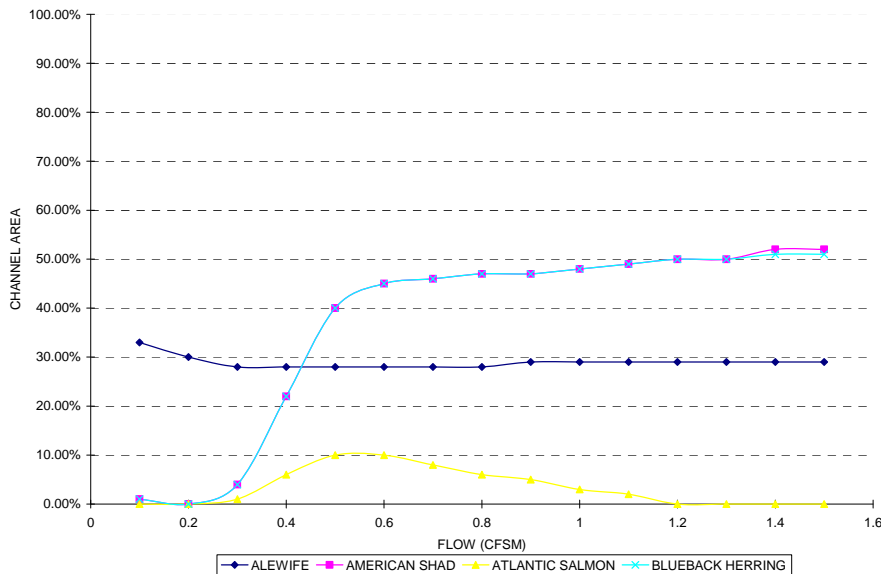
Project: Lamprey River Spawn  
Effective Habitat



**Figure 13 - Effective habitat rating curves for fish at Site 3 during the anadromous species spawning bioperiod under current conditions.**



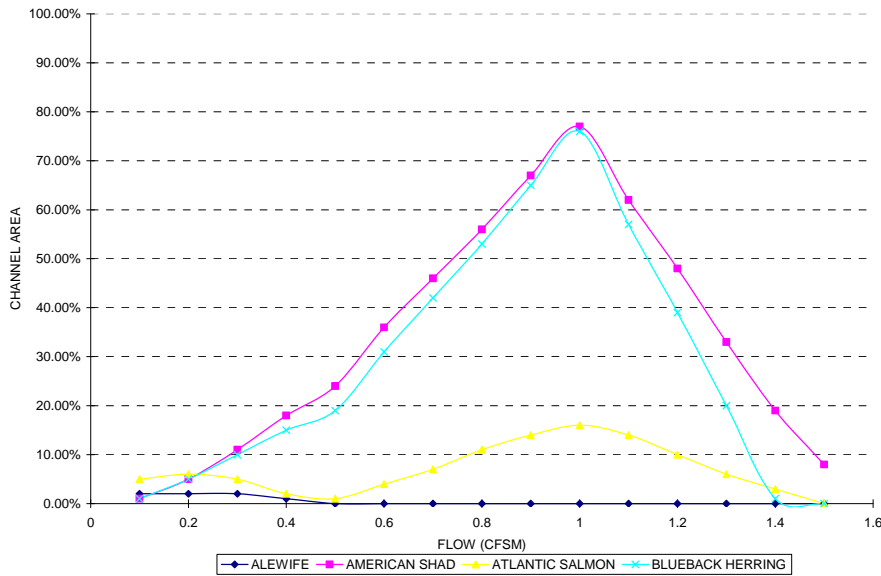
**Figure 14 - Effective habitat rating curves for fish at Site 4 during the anadromous species spawning bioperiod under current conditions.**



**Figure 15 - Effective habitat rating curves for fish at Site 5 during the anadromous species spawning bioperiod under current conditions.**

Suitability Curve(s) for Site: 6

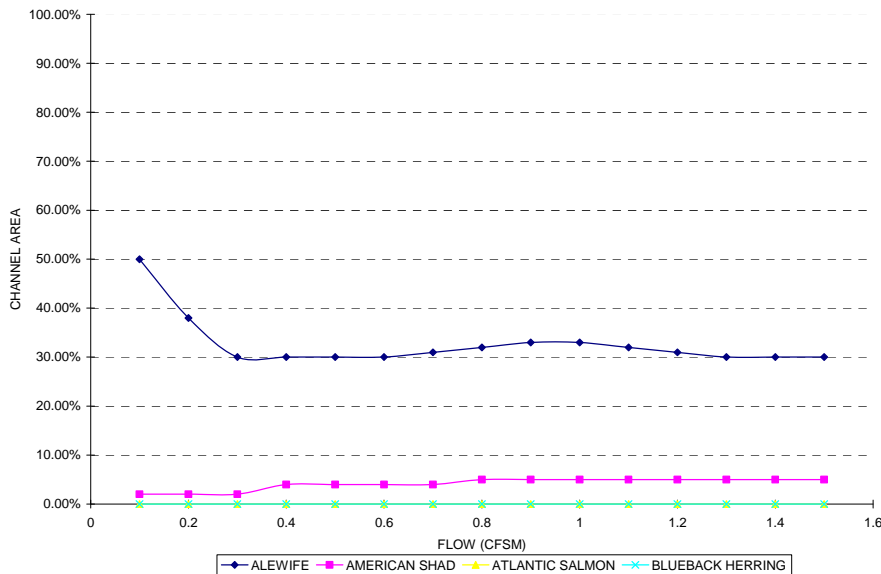
Project: Lamprey River Spawn  
Effective Habitat



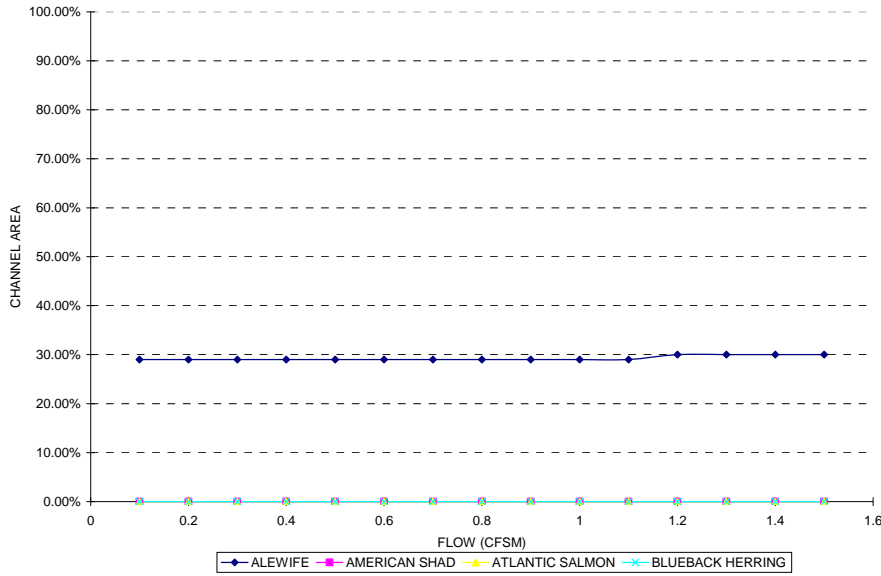
**Figure 16 - Effective habitat rating curves for fish at Site 6 during the anadromous species spawning bioperiod under current conditions.**

Suitability Curve(s) for Site: 7

Project: Lamprey River Spawn  
Effective Habitat



**Figure 17 - Effective habitat rating curves for fish at Site 7 during the anadromous species spawning bioperiod under current conditions.**



**Figure 18 - Effective habitat rating curves for fish at Site 8 during the anadromous species spawning bioperiod under current conditions.**

### 1.3 Rearing and growth bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River AIC  
Effective Habitat

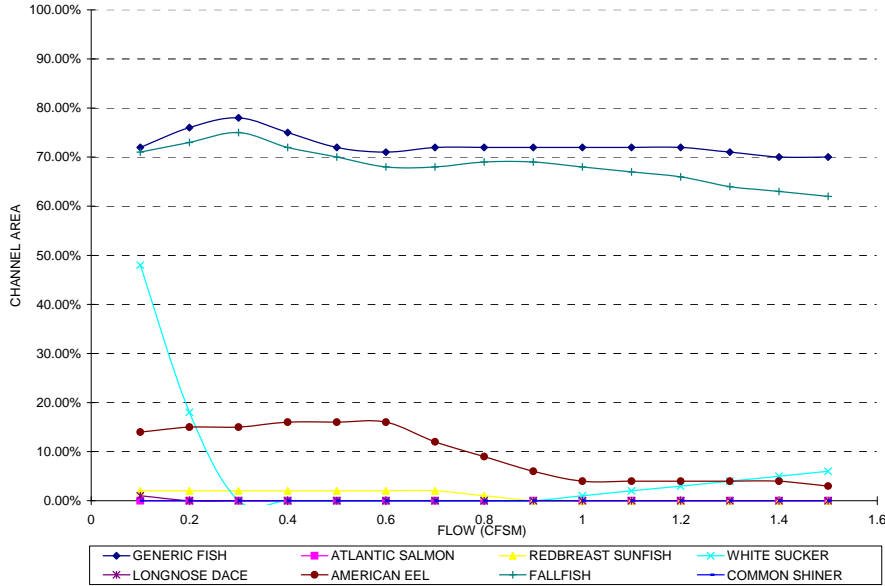


Figure 19 - Effective habitat rating curves at Site 1 during the rearing and growth bioperiod under current conditions.



Suitability Curve(s) for Site: 2a

Project: Lamprey River AIC  
Effective Habitat

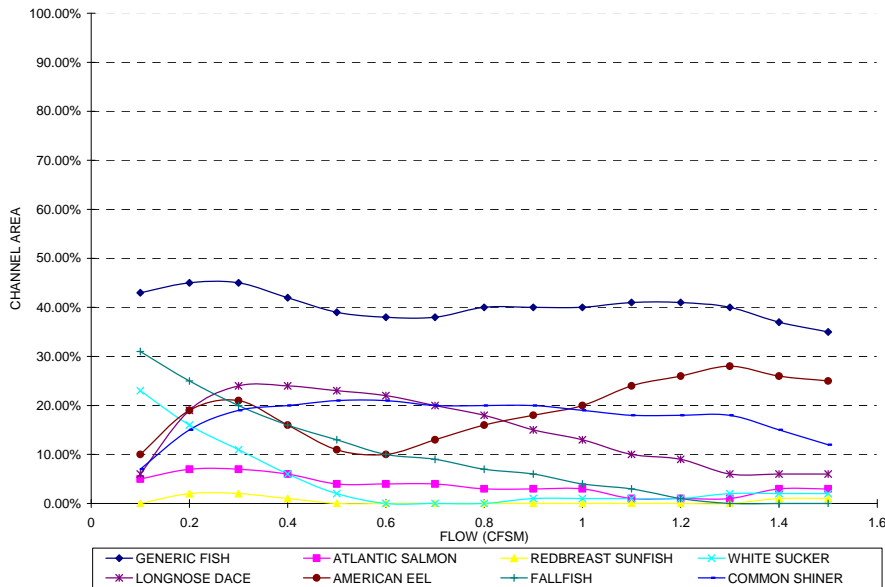
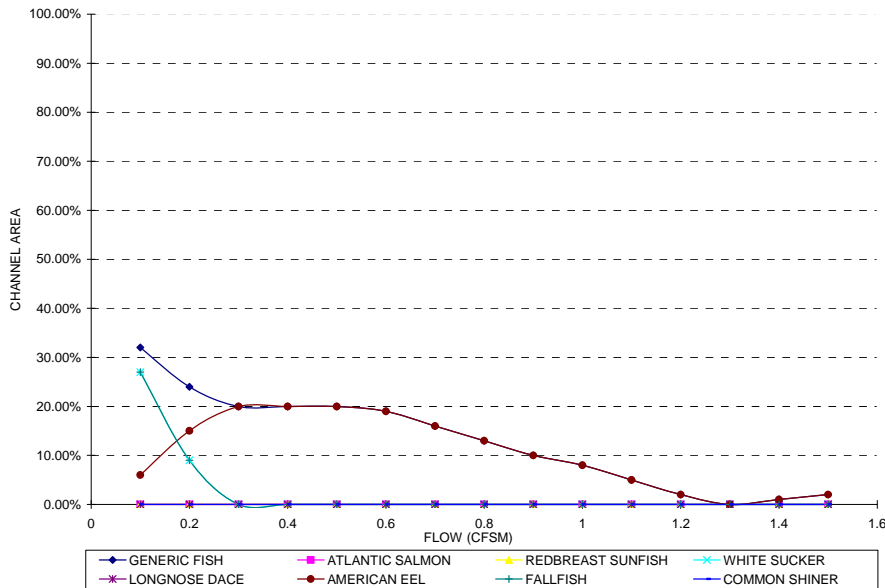
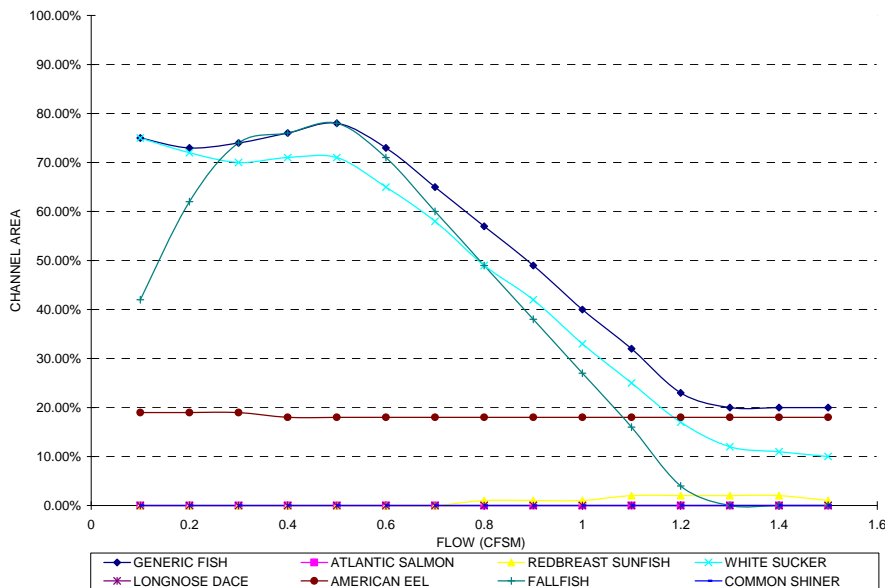


Figure 20 - Effective habitat rating curves at Site 2a during the rearing and growth bioperiod under current conditions.



**Figure 21 - Effective habitat rating curves at Site 2b during the rearing and growth bioperiod under current conditions.**



**Figure 22 - Effective habitat rating curves at Site 3 during the rearing and growth bioperiod under current conditions.**



Suitability Curve(s) for Site: 4

Project: Lamprey River AIC  
Effective Habitat

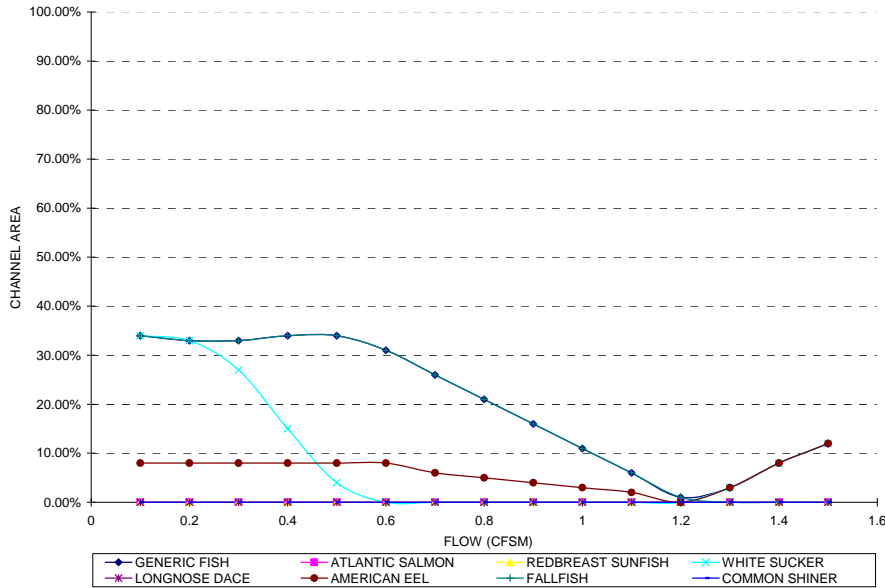


Figure 23 - Effective habitat rating curves at Site 4 during the rearing and growth bioperiod under current conditions.



Suitability Curve(s) for Site: 5

Project: Lamprey River AIC  
Effective Habitat

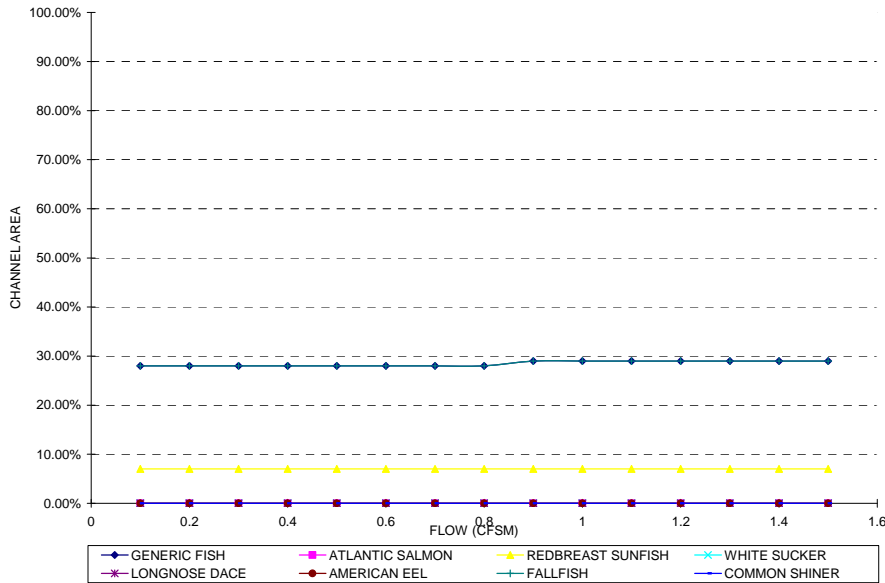
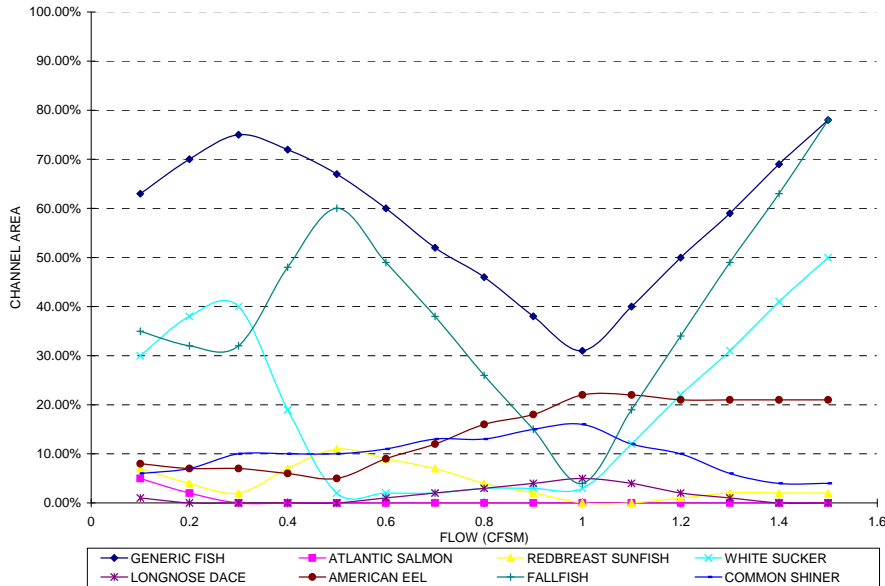
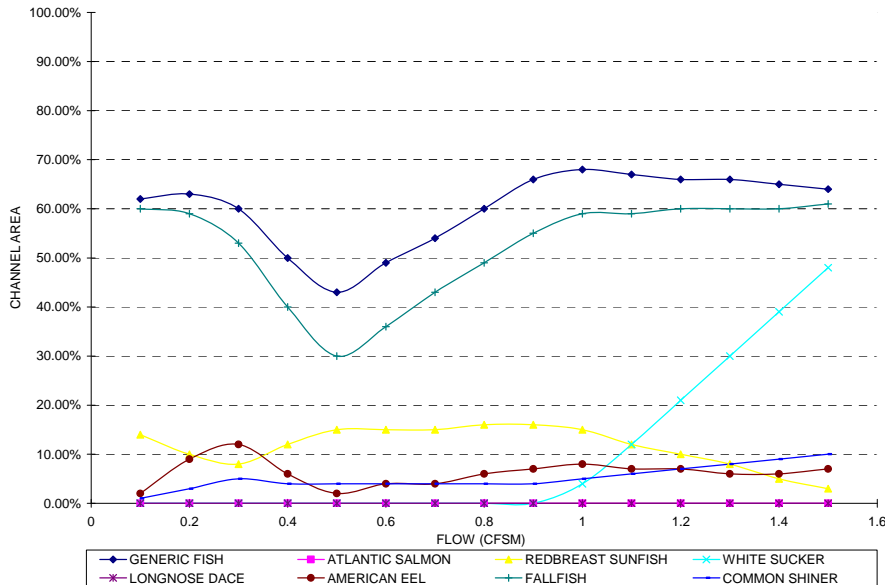


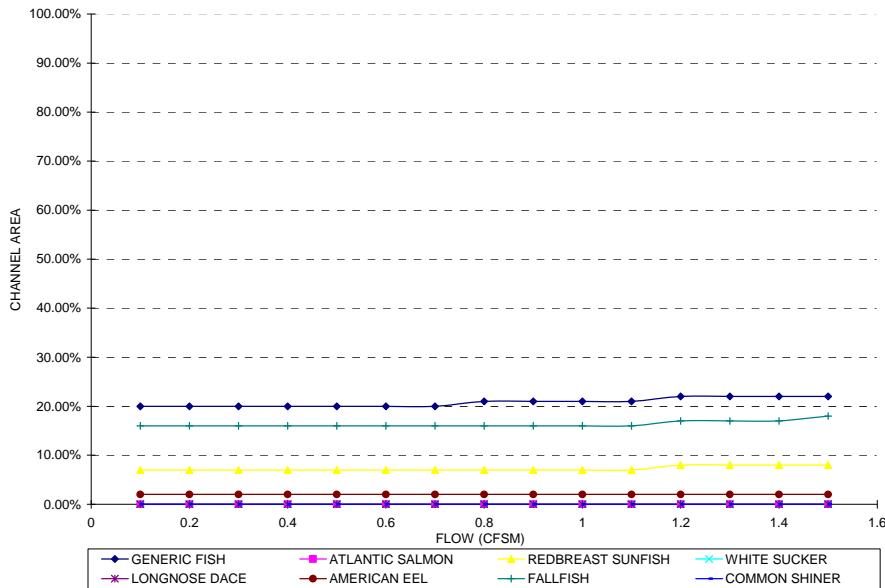
Figure 24 - Effective habitat rating curves at Site 5 during the rearing and growth bioperiod under current conditions.



**Figure 25 - Effective habitat rating curves at Site 6 during the rearing and growth bioperiod under current conditions.**



**Figure 26 - Effective habitat rating curves at Site 7 during the rearing and growth bioperiod under current conditions.**



**Figure 27 - Effective habitat rating curves at Site 8 during the rearing and growth bioperiod under current conditions.**

## 1.4 Rearing and growth bioperiod macroinvertebrates effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Bugs AIC  
Effective Habitat

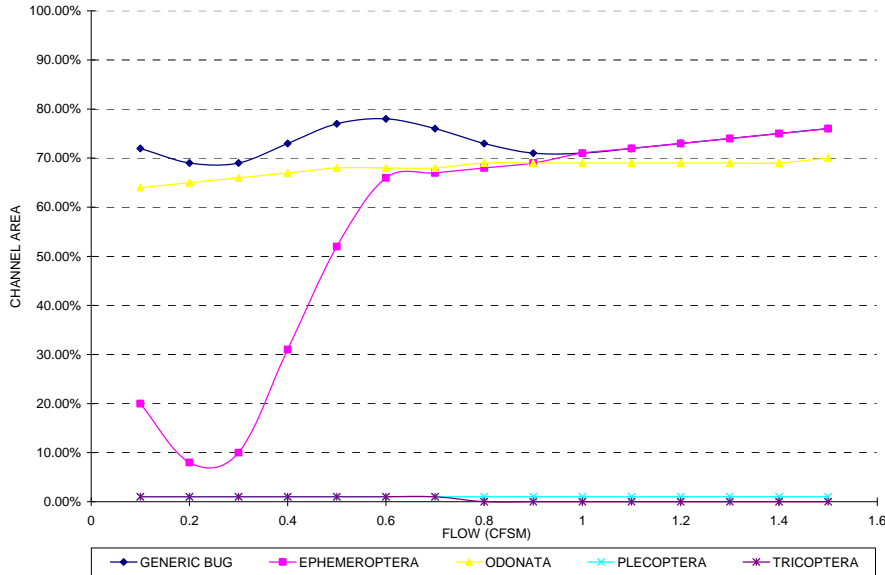


Figure 28 - Effective habitat rating curves for macroinvertebrates at Site 1 during the rearing and growth bioperiod under current conditions.



Suitability Curve(s) for Site: 2a

Project: Lamprey River Bugs AIC  
Effective Habitat

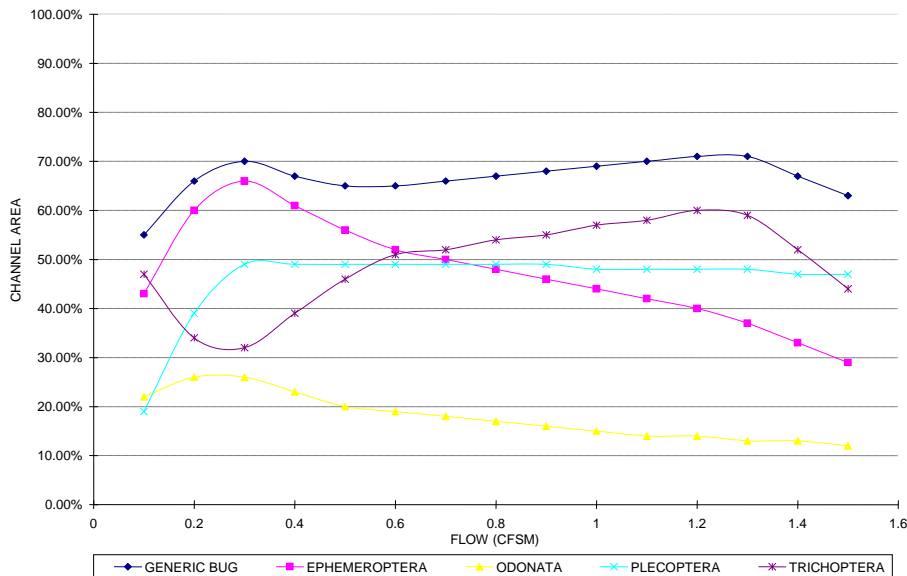
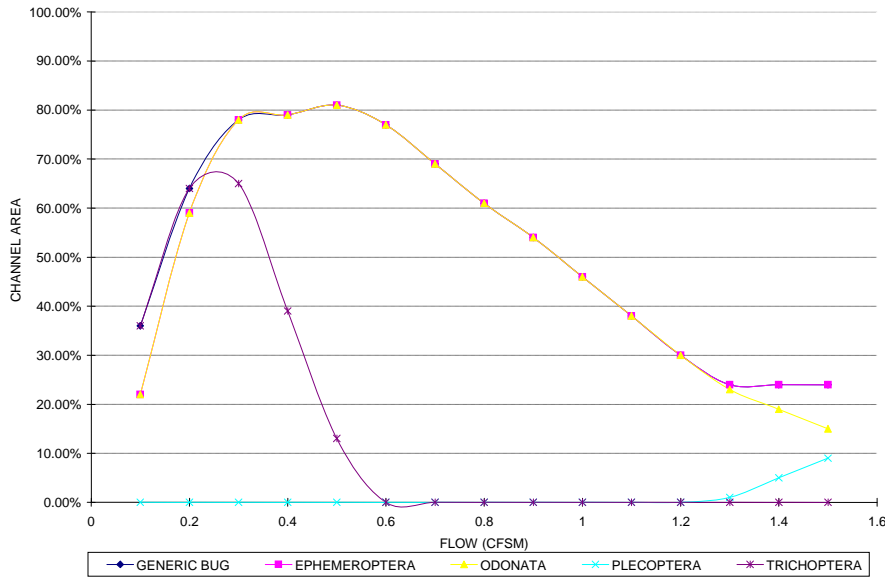
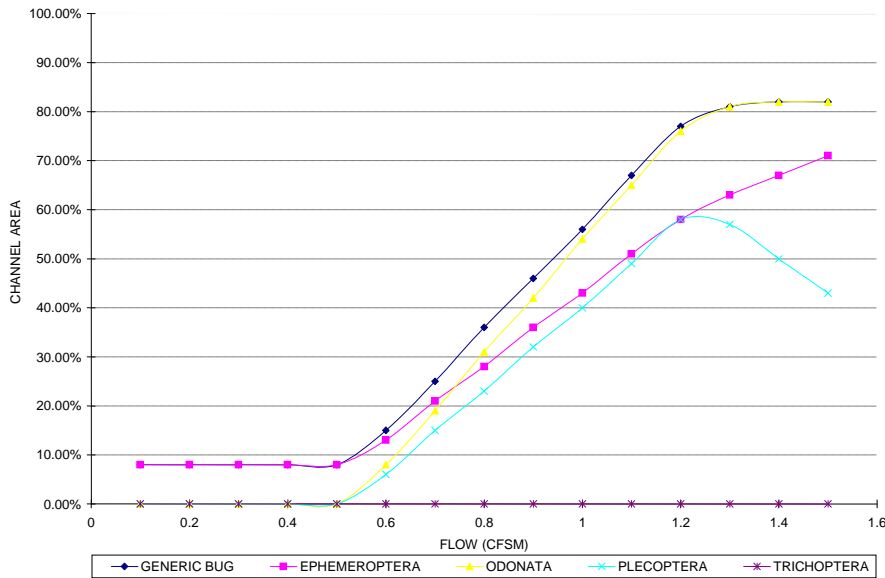


Figure 29 - Effective habitat rating curves for macroinvertebrates at Site 2a during the rearing and growth bioperiod under current conditions.



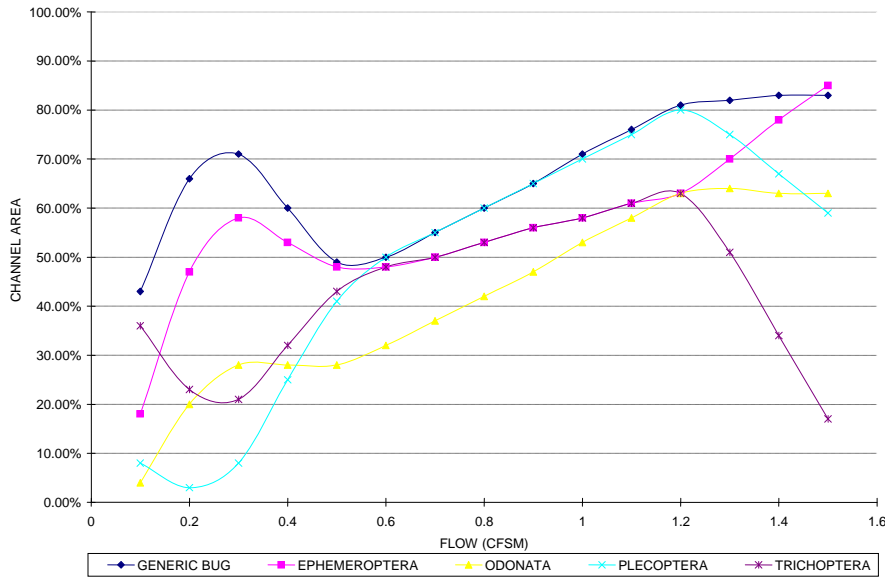
**Figure 30 - Effective habitat rating curves for macroinvertebrates at Site 2b during the rearing and growth bioperiod under current conditions.**



**Figure 31 - Effective habitat rating curves for macroinvertebrates at Site 3 during the rearing and growth bioperiod under current conditions.**

Suitability Curve(s) for Site: 4

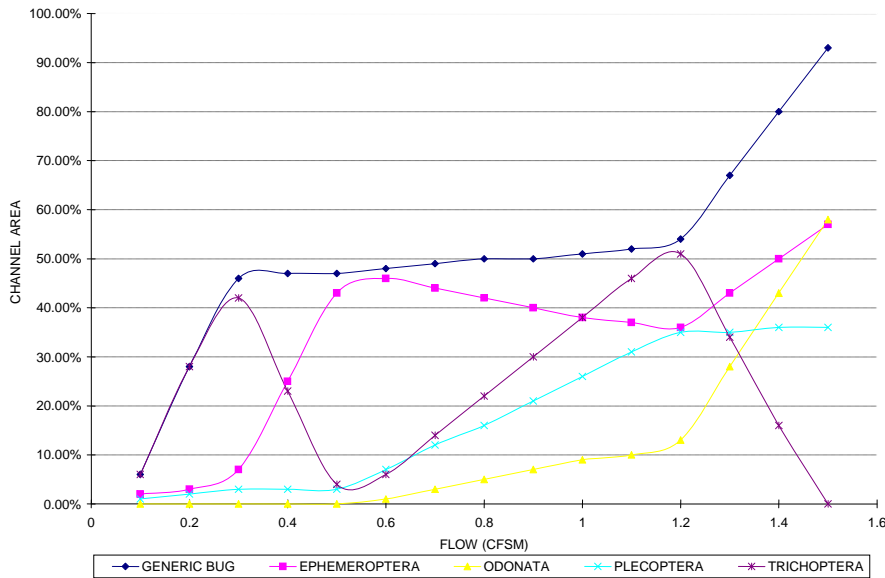
Project: Lamprey River Bugs AIC  
Effective Habitat



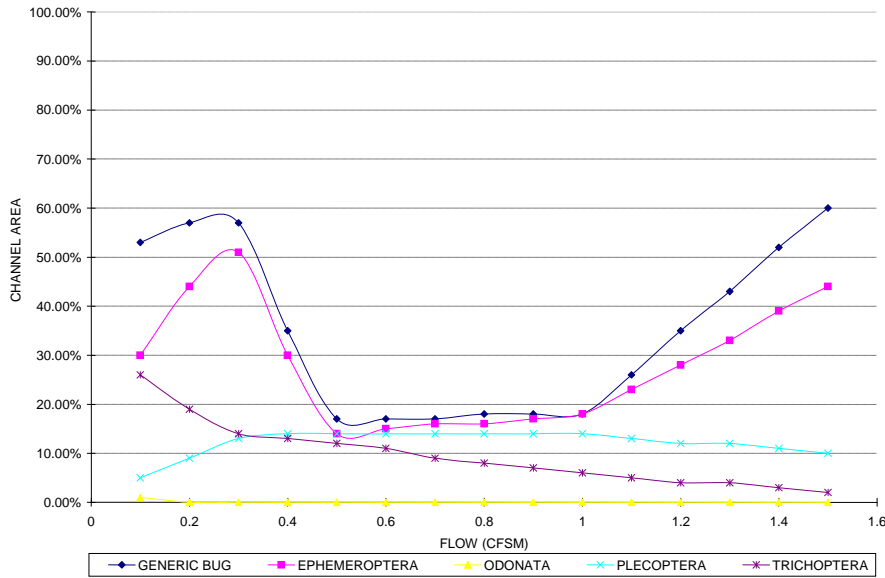
**Figure 32 - Effective habitat rating curves for macroinvertebrates at Site 4 during the rearing and growth bioperiod under current conditions.**

Suitability Curve(s) for Site: 5

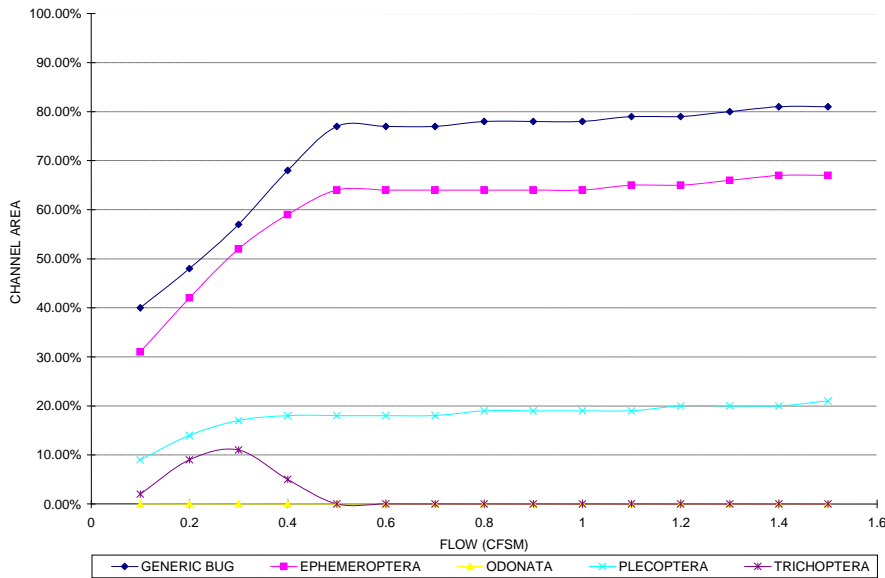
Project: Lamprey River Bugs AIC  
Effective Habitat



**Figure 33 - Effective habitat rating curves for macroinvertebrates at Site 5 during the rearing and growth bioperiod under current conditions.**



**Figure 34 - Effective habitat rating curves for macroinvertebrates at Site 6 during the rearing and growth bioperiod under current conditions.**

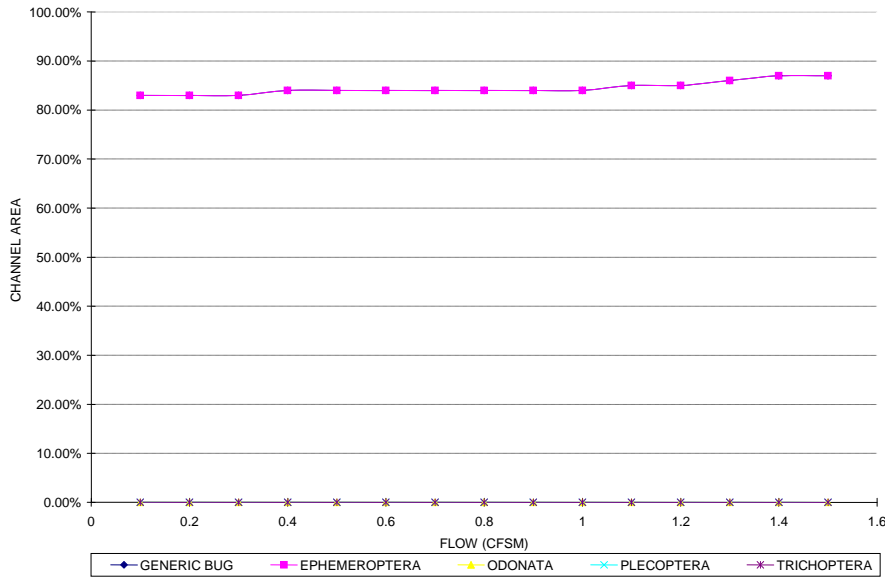


**Figure 35 - Effective habitat rating curves for macroinvertebrates at Site 7 during the Rearing and Growth bioperiod under current conditions.**



Suitability Curve(s) for Site: 8

Project: Lamprey River Bugs AIC  
 Effective Habitat



**Figure 36 - Effective habitat rating curves for macroinvertebrates at Site 8 during the rearing and growth bioperiod under current conditions.**

## 2. Habitat Rating Curves under Baseline Conditions

### 2.1 Resident species spawning bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Spawning  
Effective Habitat

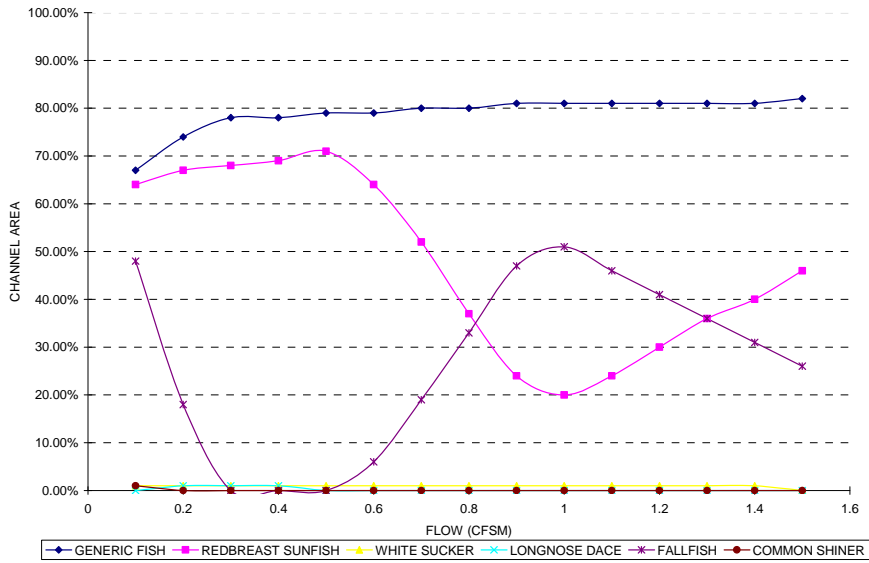


Figure 37 - Effective habitat rating curves for fish at Site 1 during the resident species spawning bioperiod under baseline conditions.



Suitability Curve(s) for Site: 2

Project: Lamprey River Spawning  
Effective Habitat

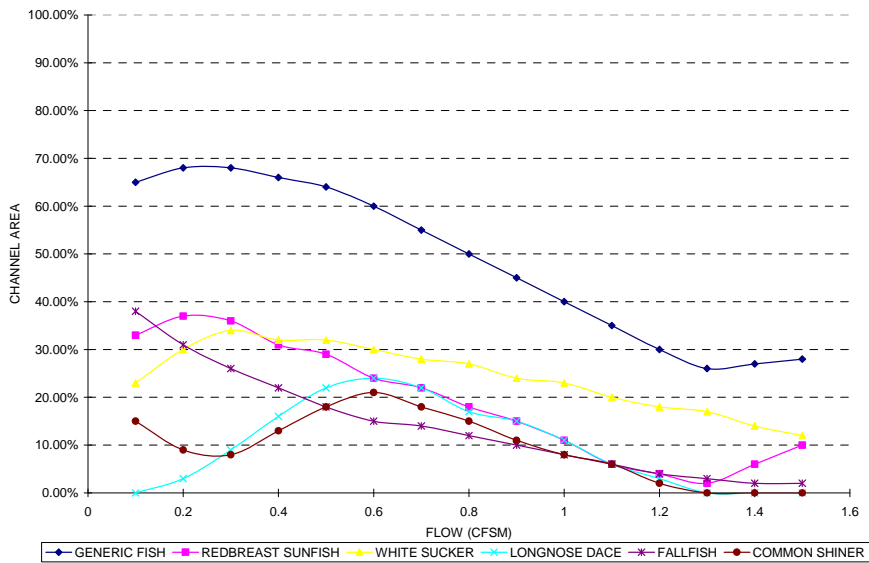
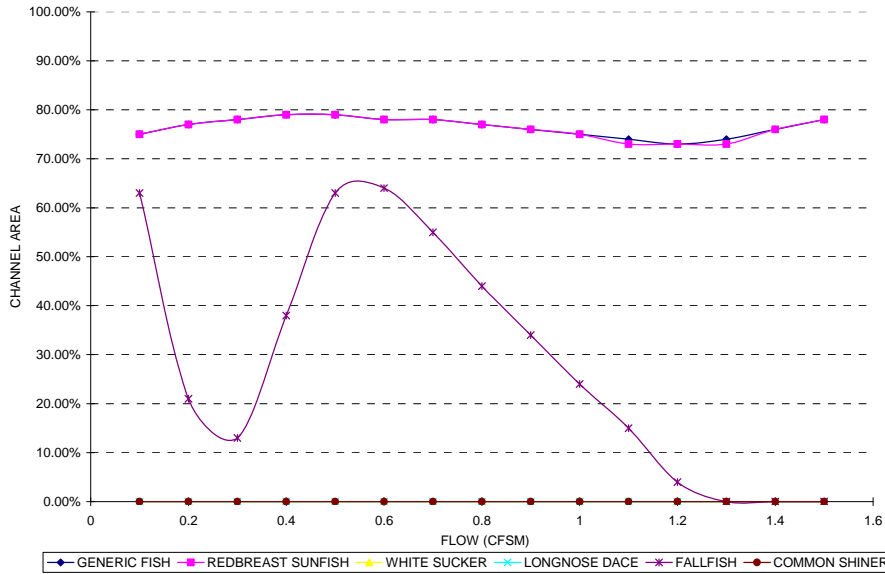


Figure 38 - Effective habitat rating curves for fish at Site 2 during the resident species spawning bioperiod under baseline conditions.

Suitability Curve(s) for Site: 3

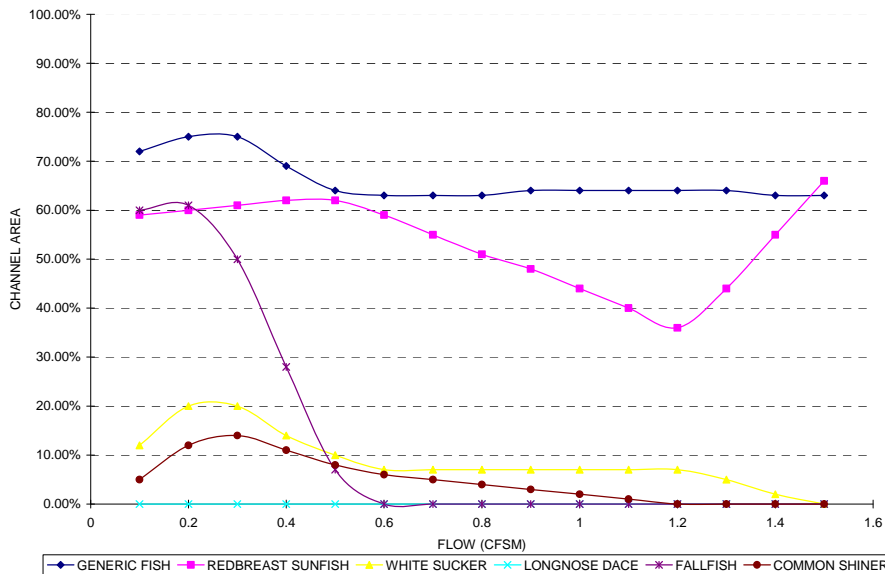
Project: Lamprey River Spawning  
 Effective Habitat



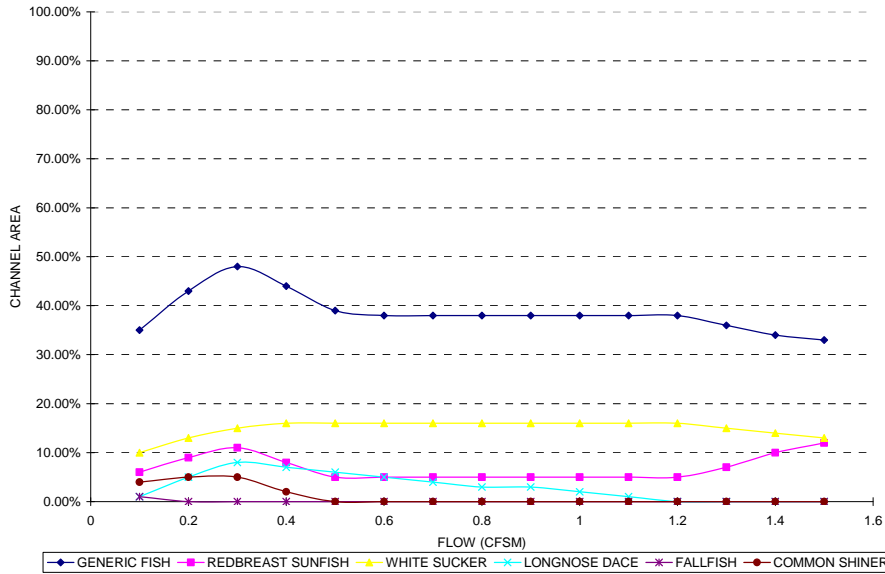
**Figure 39 - Effective habitat rating curves for fish at Site 3 during the resident species spawning bioperiod under baseline conditions.**

Suitability Curve(s) for Site: 4

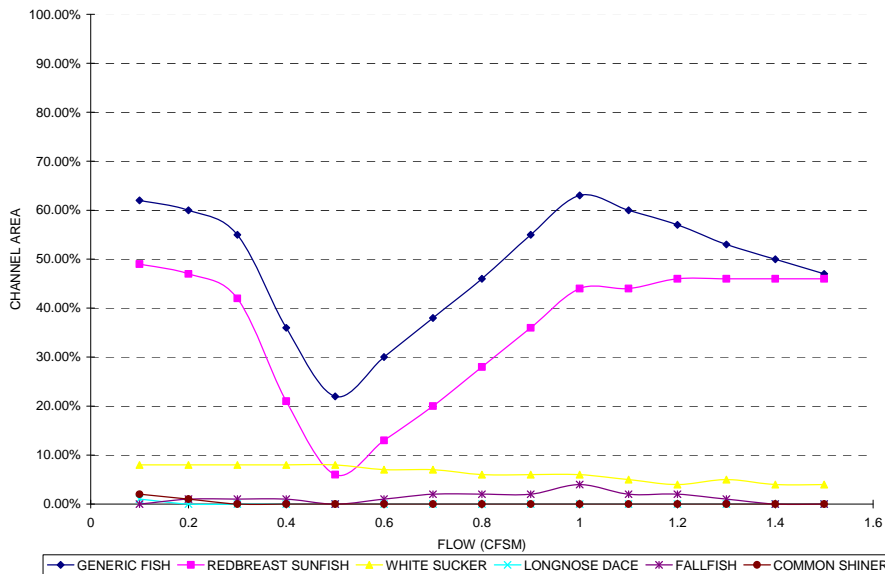
Project: Lamprey River Spawning  
 Effective Habitat



**Figure 40 - Effective habitat rating curves for fish at Site 4 during the resident species spawning bioperiod under baseline conditions.**



**Figure 41 - Effective habitat rating curves for fish at Site 5 during the resident species spawning bioperiod under baseline conditions.**



**Figure 42 - Effective habitat rating curves for fish at Site 6 during the resident species spawning bioperiod under baseline conditions.**

Suitability Curve(s) for Site: 7

Project: Lamprey River Spawning  
Effective Habitat

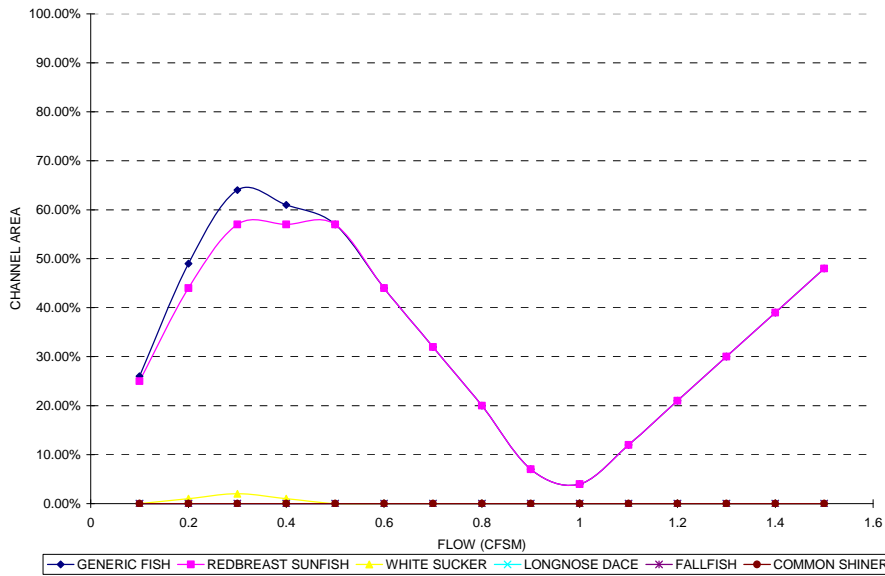


Figure 43- Effective habitat rating curves for fish at Site 7 during the resident species spawning bioperiod under baseline conditions.

Suitability Curve(s) for Site: 8

Project: Lamprey River Spawning  
Effective Habitat

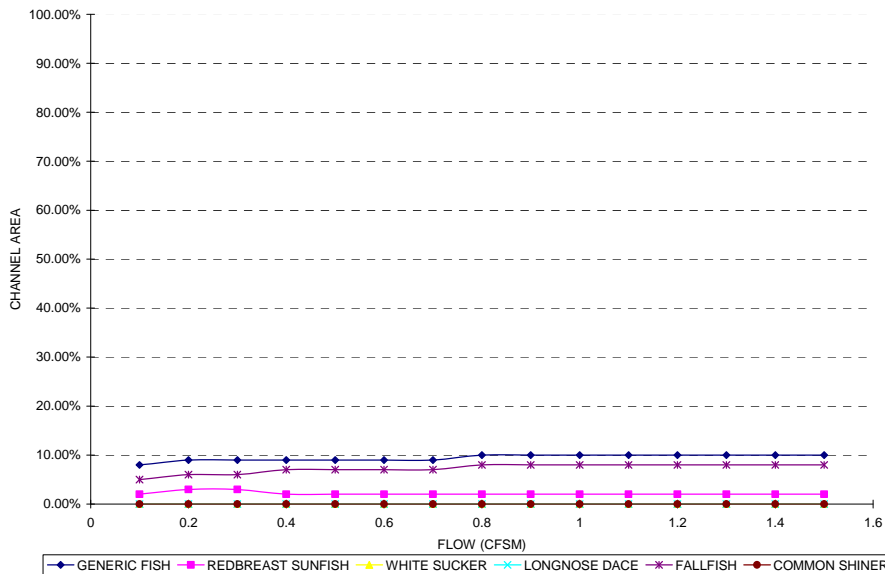


Figure 44 - Effective habitat rating curves for fish at Site 8 during the resident species spawning bioperiod under baseline conditions.

## 2.2 Anadromous species spawning bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Spawning  
Effective Habitat

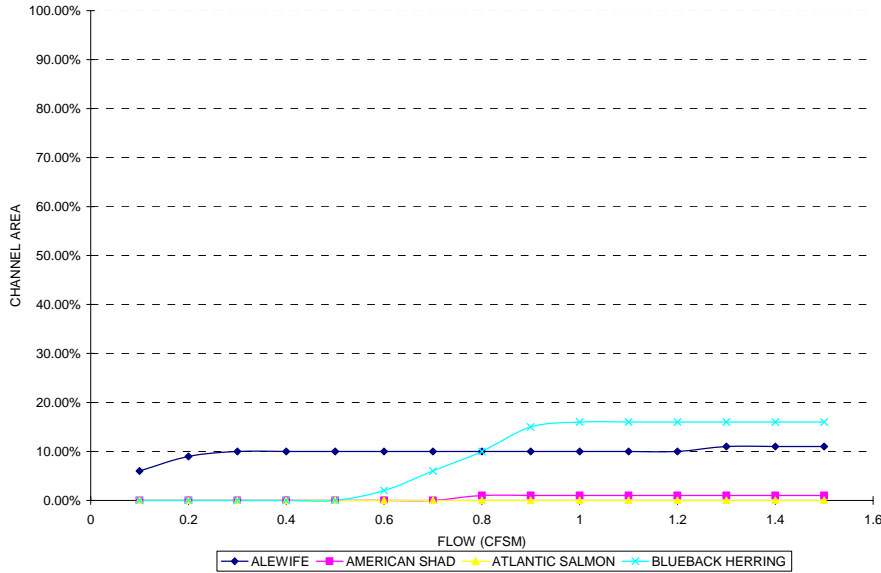


Figure 45 - Effective habitat rating curves for fish at Site 1 during the anadromous species spawning bioperiod under baseline conditions.



Suitability Curve(s) for Site: 2

Project: Lamprey River Spawning  
Effective Habitat

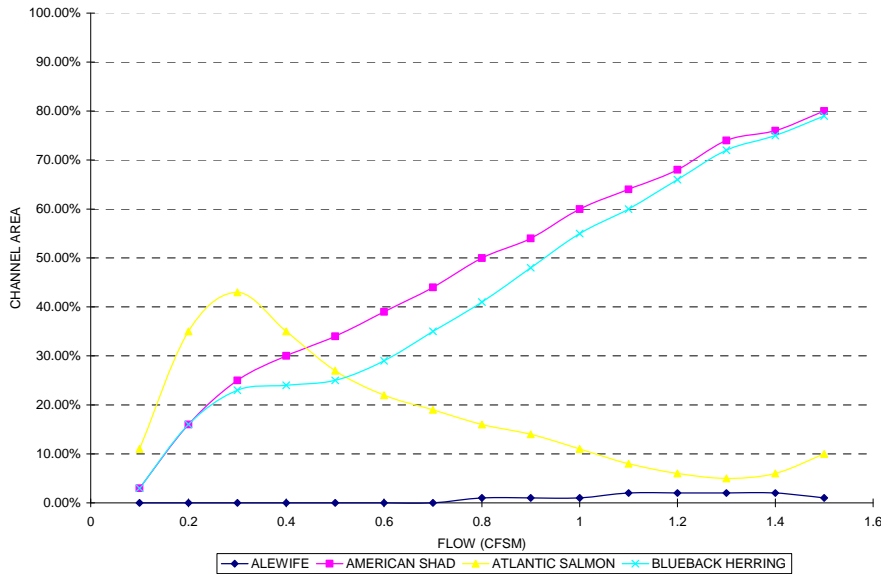
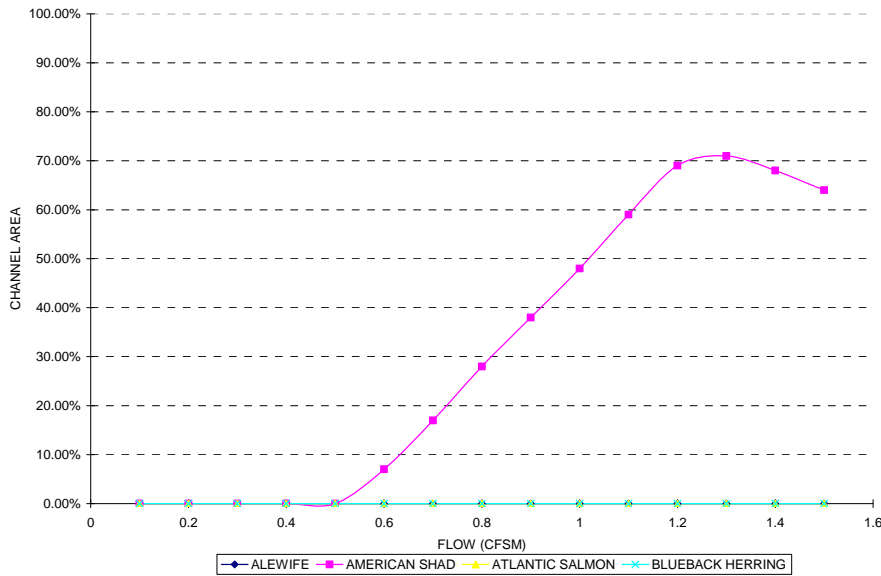


Figure 46 - Effective habitat rating curves for fish at Site 2 during the anadromous species spawning bioperiod under baseline conditions.

Suitability Curve(s) for Site: 3

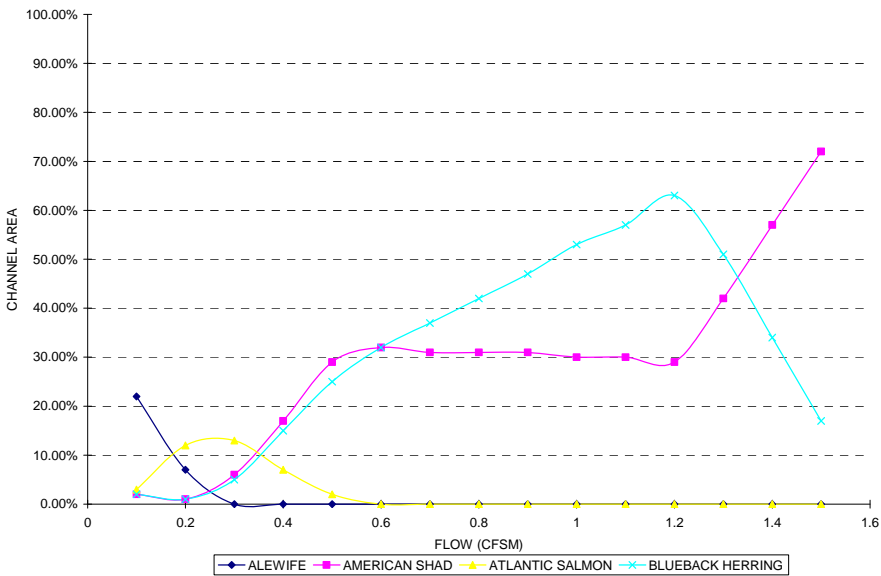
Project: Lamprey River Spawning  
Effective Habitat



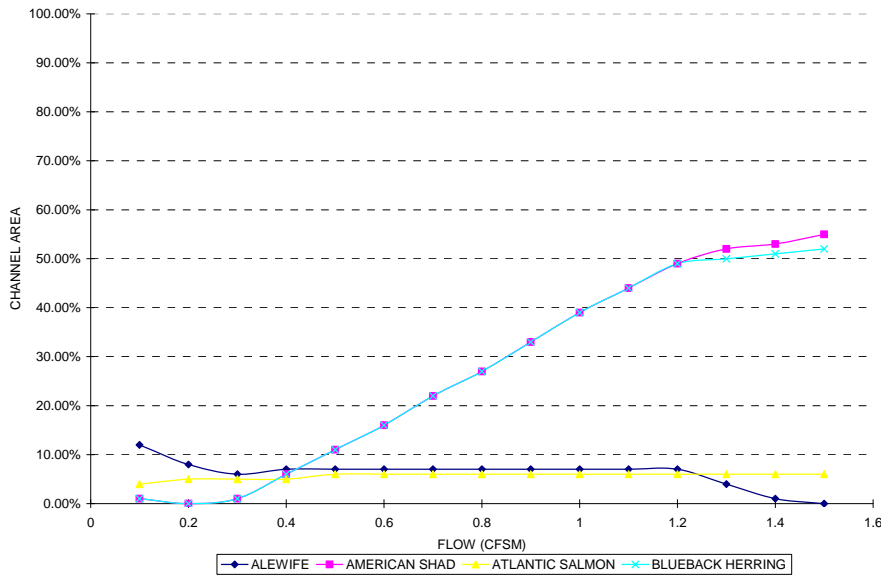
**Figure 47 - Effective habitat rating curves for fish at Site 3 during the anadromous Species spawning bioperiod under baseline conditions.**

Suitability Curve(s) for Site: 4

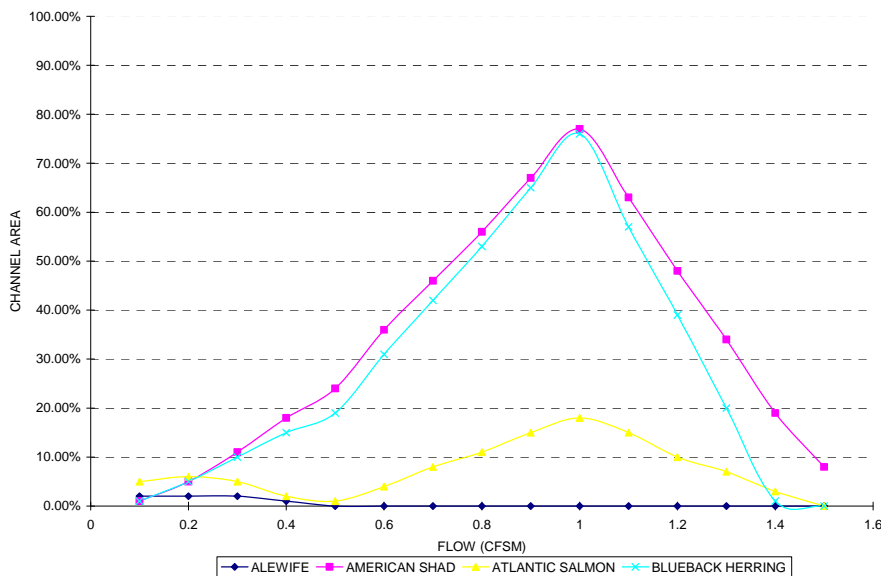
Project: Lamprey River Spawning  
Effective Habitat



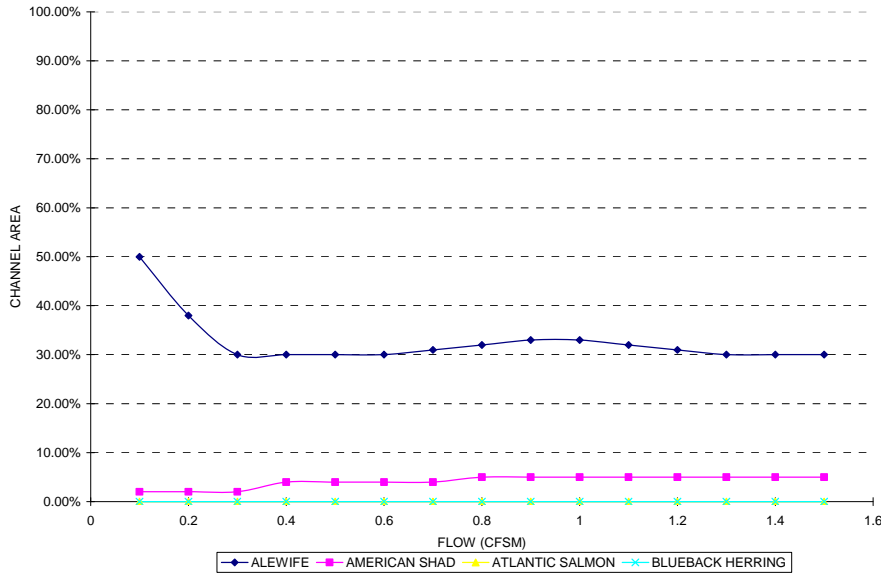
**Figure 48 - Effective habitat rating curves for fish at Site 4 during the anadromous species spawning bioperiod under baseline conditions.**



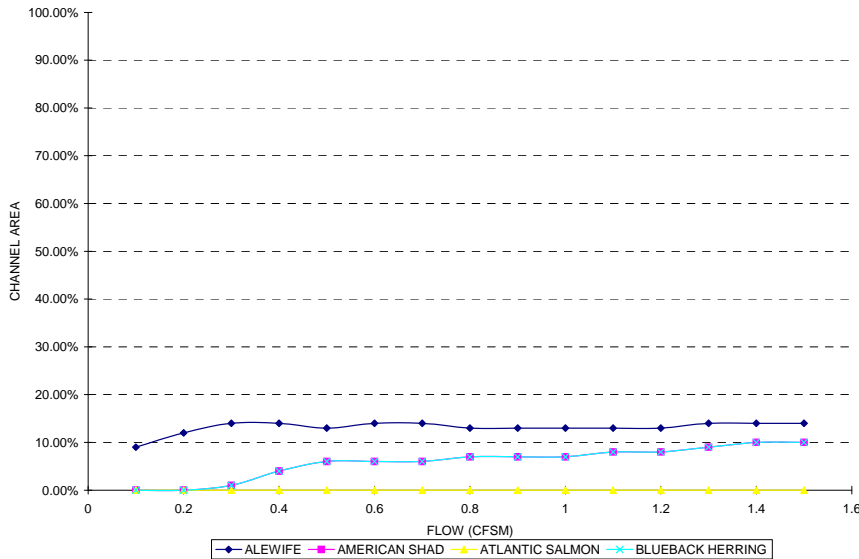
**Figure 49 - Effective Habitat rating curves for fish at Site 5 during the anadromous species spawning bioperiod under baseline conditions.**



**Figure 50 - Effective habitat rating curves for fish at Site 6 during the anadromous species spawning bioperiod under baseline conditions.**



**Figure 51 - Effective habitat rating curves for fish at Site 7 during the anadromous species spawning bioperiod under baseline conditions.**



**Figure 52 - Effective habitat rating curves for fish at Site 8 during the anadromous species spawning bioperiod under baseline conditions.**

### 2.3 Rearing and growth bioperiod effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River AIC  
Effective Habitat

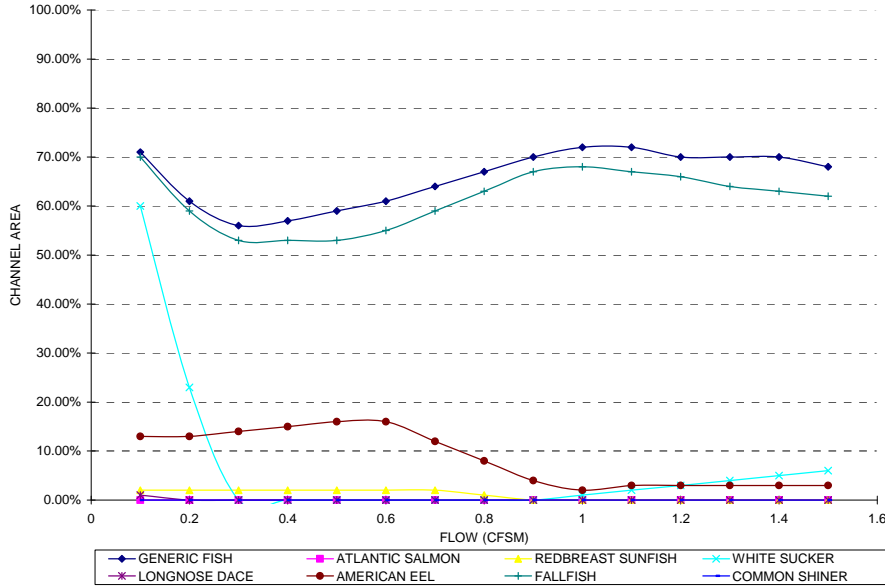


Figure 53 - Effective habitat rating curves for fish at Site 1 during the rearing and growth bioperiod under baseline conditions.



Suitability Curve(s) for Site: 2

Project: Lamprey River AIC  
Effective Habitat

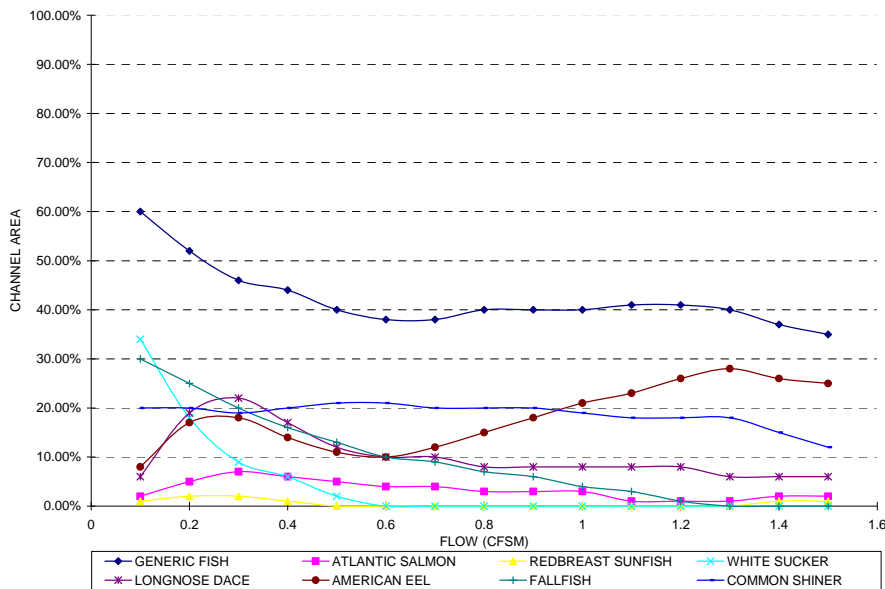
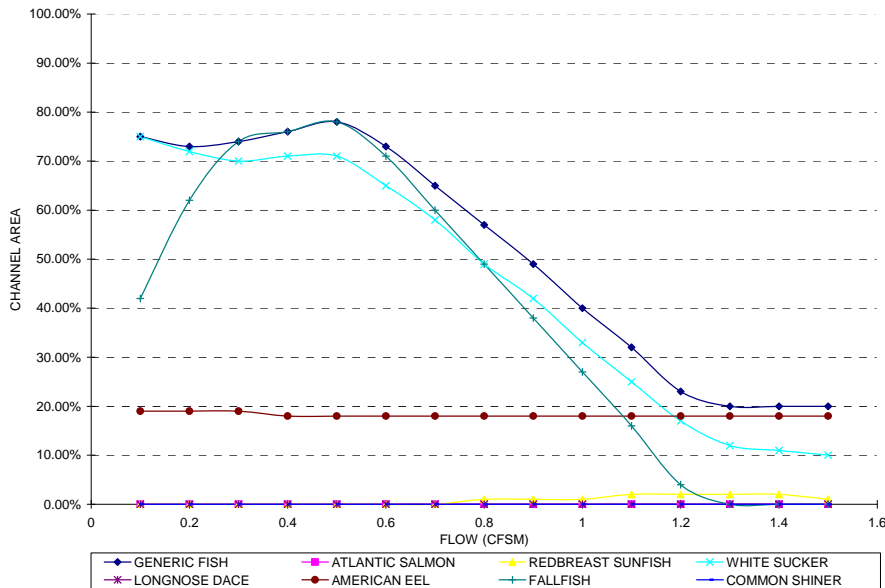
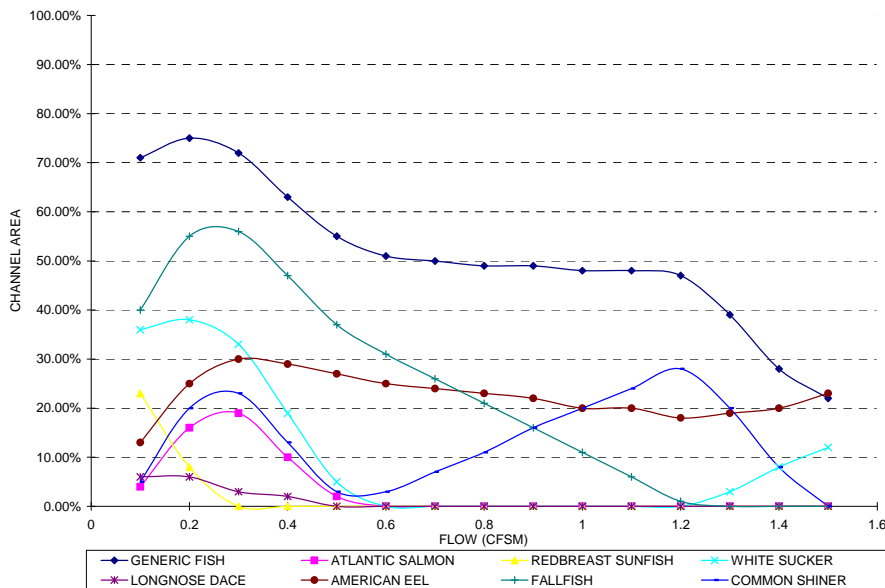


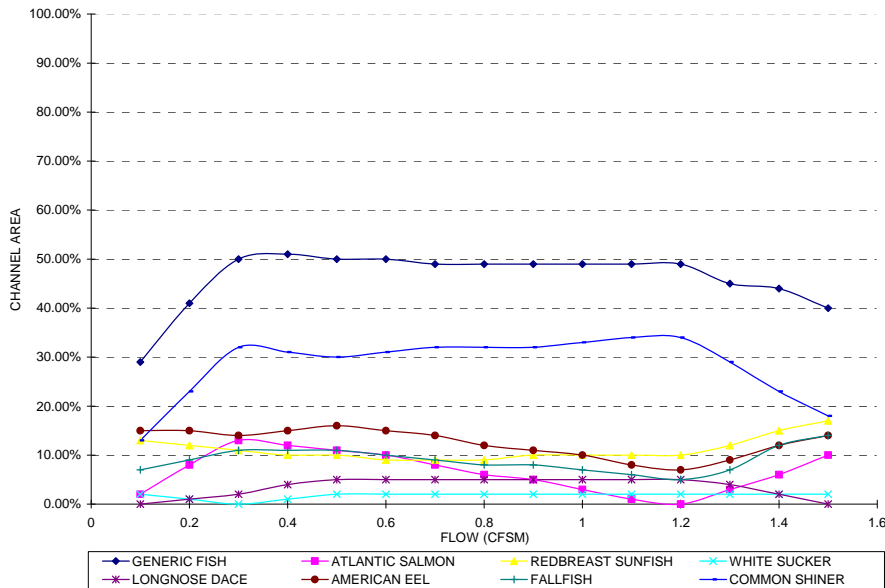
Figure 54 - Effective habitat rating curves for fish at Site 2 during the rearing and growth bioperiod under baseline conditions.



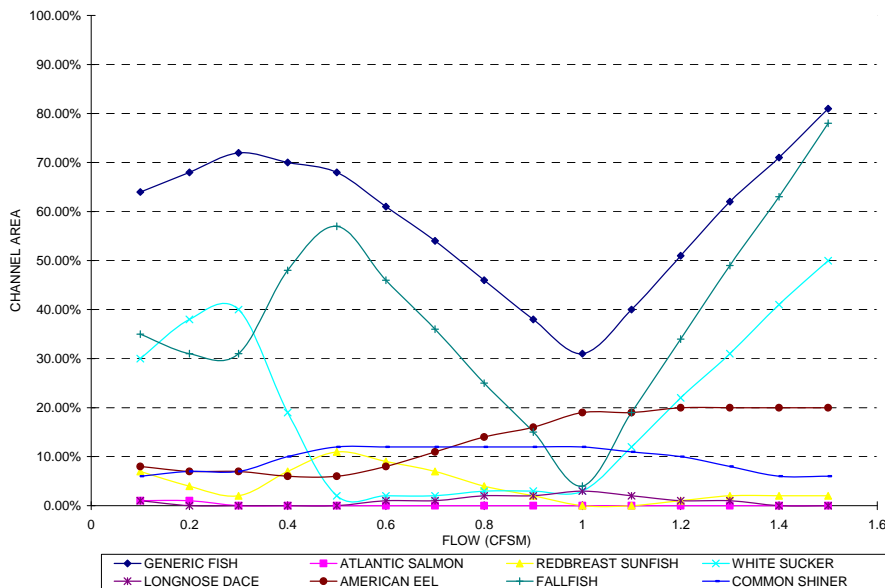
**Figure 55 - Effective habitat rating curves for fish at Site 3 during the rearing and growth bioperiod under baseline conditions.**



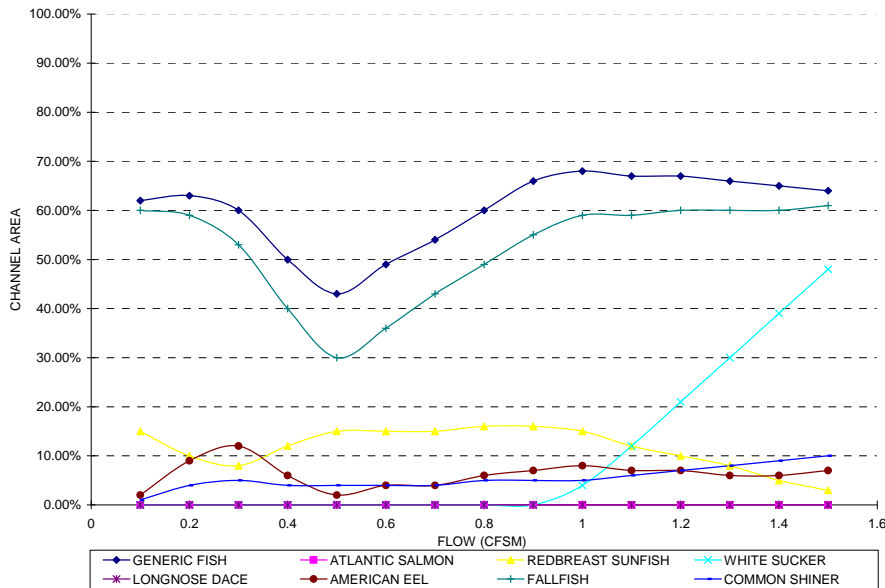
**Figure 56 - Effective habitat rating curves for fish at Site 4 during the rearing and growth bioperiod under baseline conditions.**



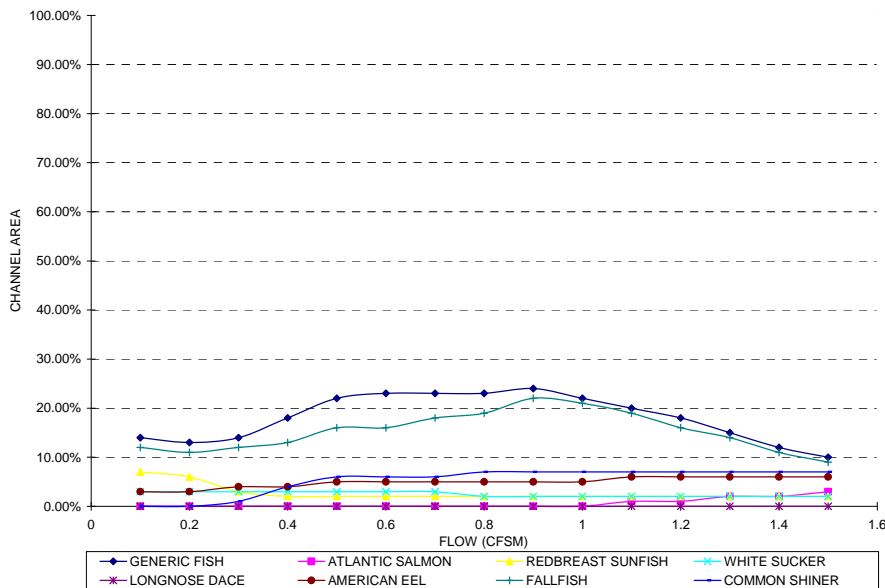
**Figure 57 - Effective habitat rating curves for fish at Site 5 during the rearing and growth bioperiod under baseline conditions.**



**Figure 58 - Effective habitat rating curves for fish at Site 6 during the rearing and growth bioperiod under baseline conditions.**



**Figure 59 - Effective habitat rating curves for fish at Site 7 during the rearing and growth bioperiod under baseline conditions.**



**Figure 60 - Effective habitat rating curves for fish at Site 8 during the rearing and growth bioperiod under baseline conditions.**

## 2.4 Rearing and growth bioperiod macroinvertebrates effective habitat



Suitability Curve(s) for Site: 1

Project: Lamprey River Bugs AIC  
Effective Habitat

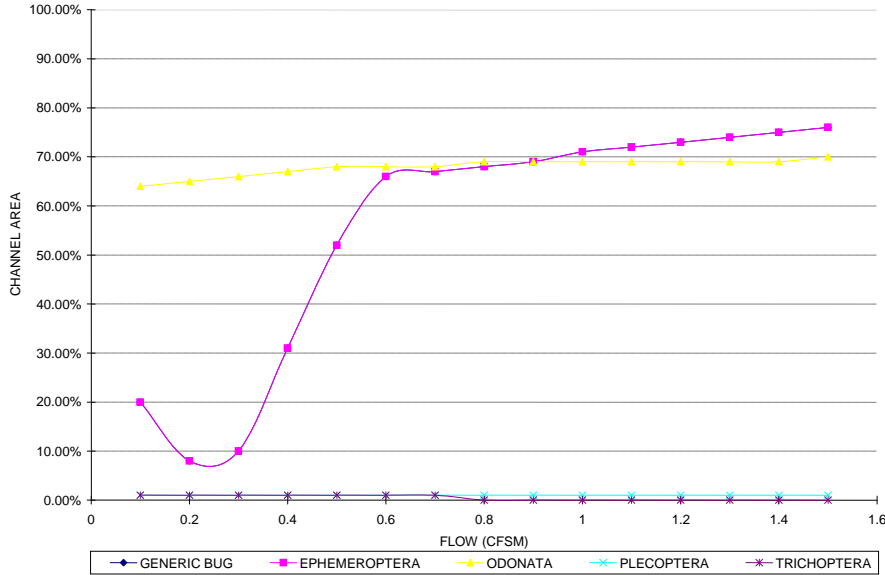


Figure 61 - Effective habitat rating curves for macroinvertebrates at Site 1 during the rearing and growth bioperiod under baseline conditions.



Suitability Curve(s) for Site: 2

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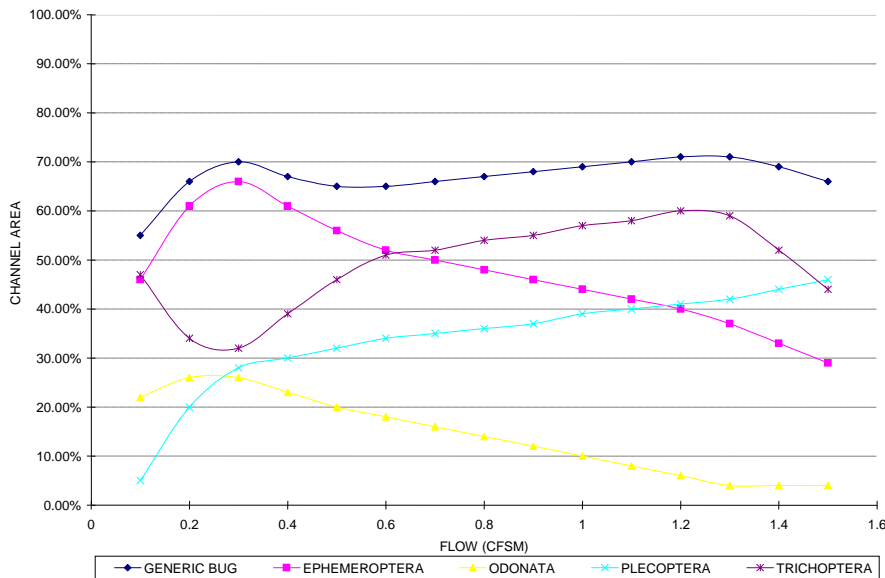
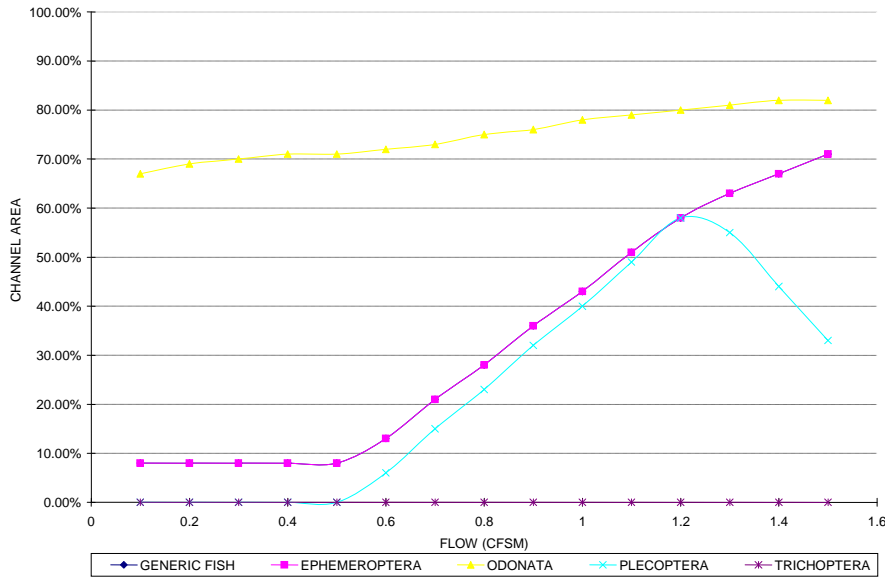
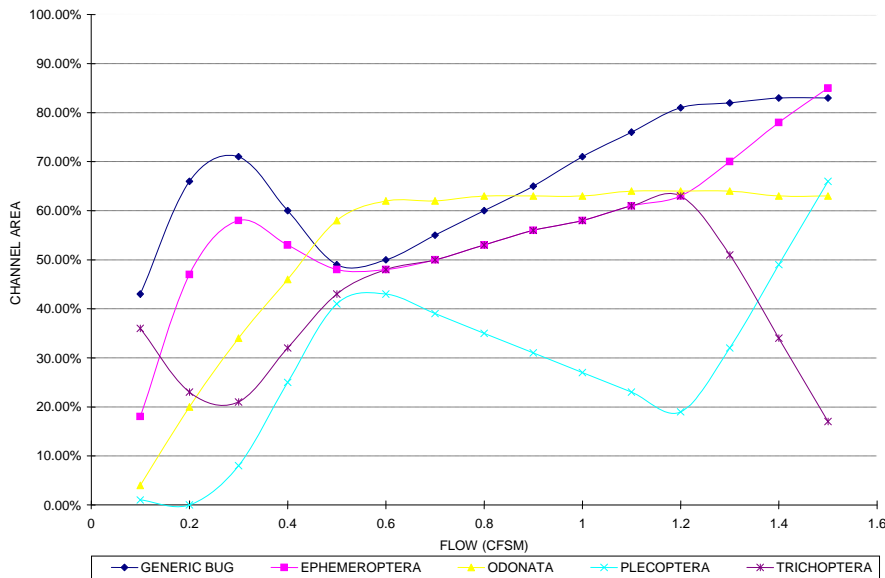


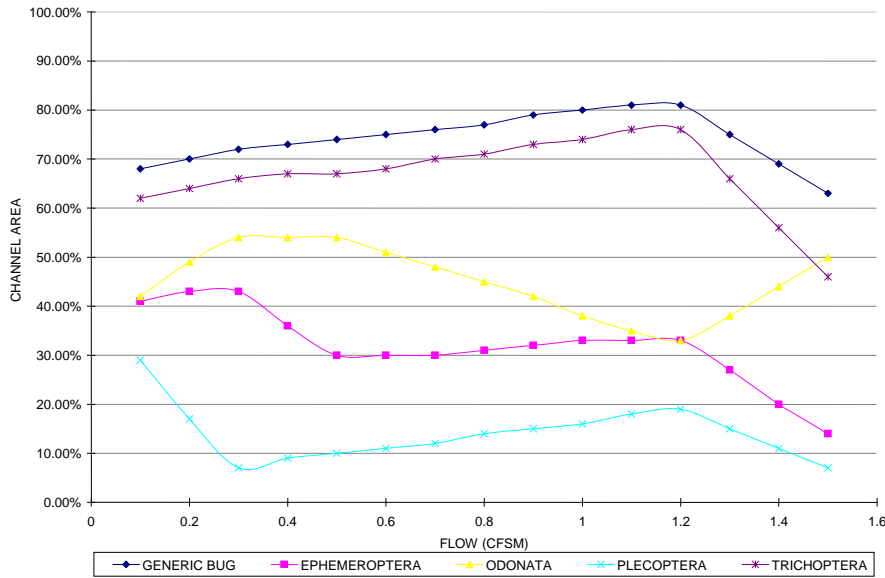
Figure 62 - Effective habitat rating curves for macroinvertebrates at Site 2 during the rearing and growth bioperiod under baseline conditions.



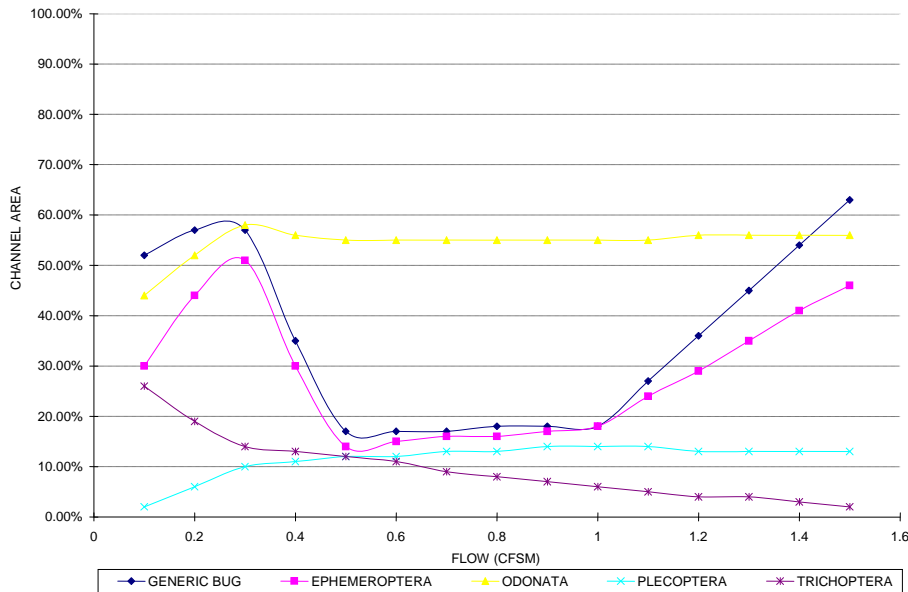
**Figure 63 - Effective habitat rating curves for macroinvertebrates at Site 3 during the rearing and growth bioperiod under baseline conditions.**



**Figure 64 - Effective habitat rating curves for macroinvertebrates at Site 4 during the rearing and growth bioperiod under baseline conditions.**



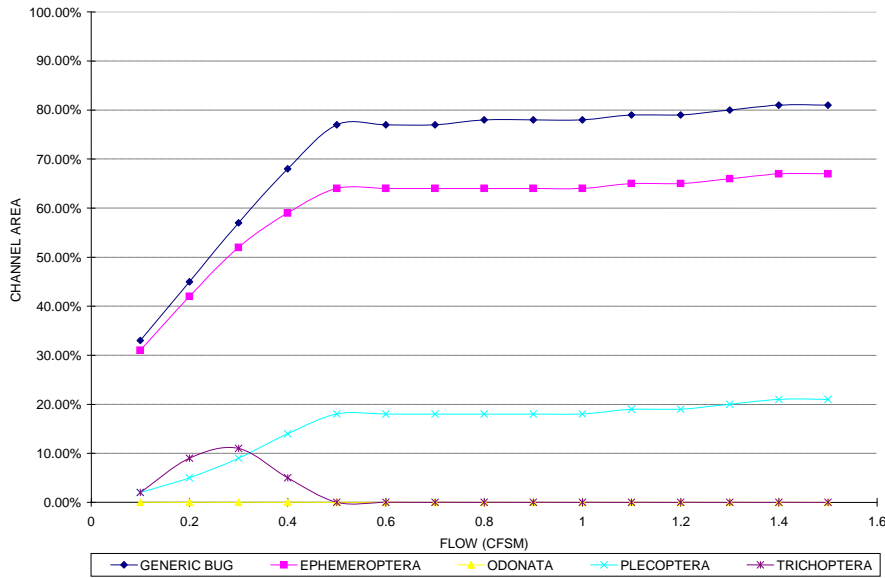
**Figure 65 - Effective habitat rating curves for macroinvertebrates at Site 5 during the rearing and growth bioperiod under baseline conditions.**



**Figure 66 - Effective habitat rating curves for macroinvertebrates at Site 6 during the rearing and growth bioperiod under baseline conditions.**

Suitability Curve(s) for Site: 7

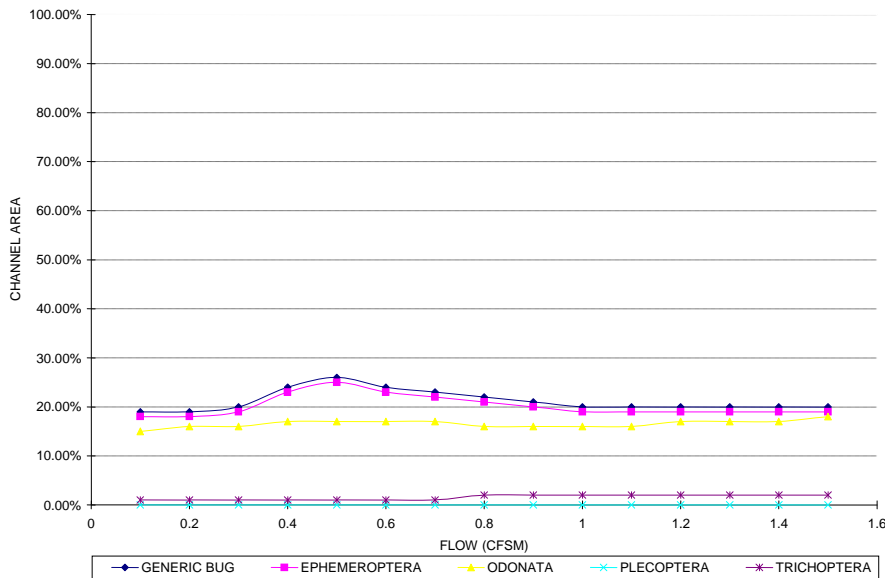
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**Figure 67- Effective habitat rating curves for macroinvertebrates in Reach 7 during the rearing and growth bioperiod under baseline conditions.**

Suitability Curve(s) for Site: 8

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**Figure 68 - Effective habitat rating curves for macroinvertebrates in Reach 8 during the rearing and growth bioperiod under baseline conditions.**