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**Legend**

- Reach Extent

**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

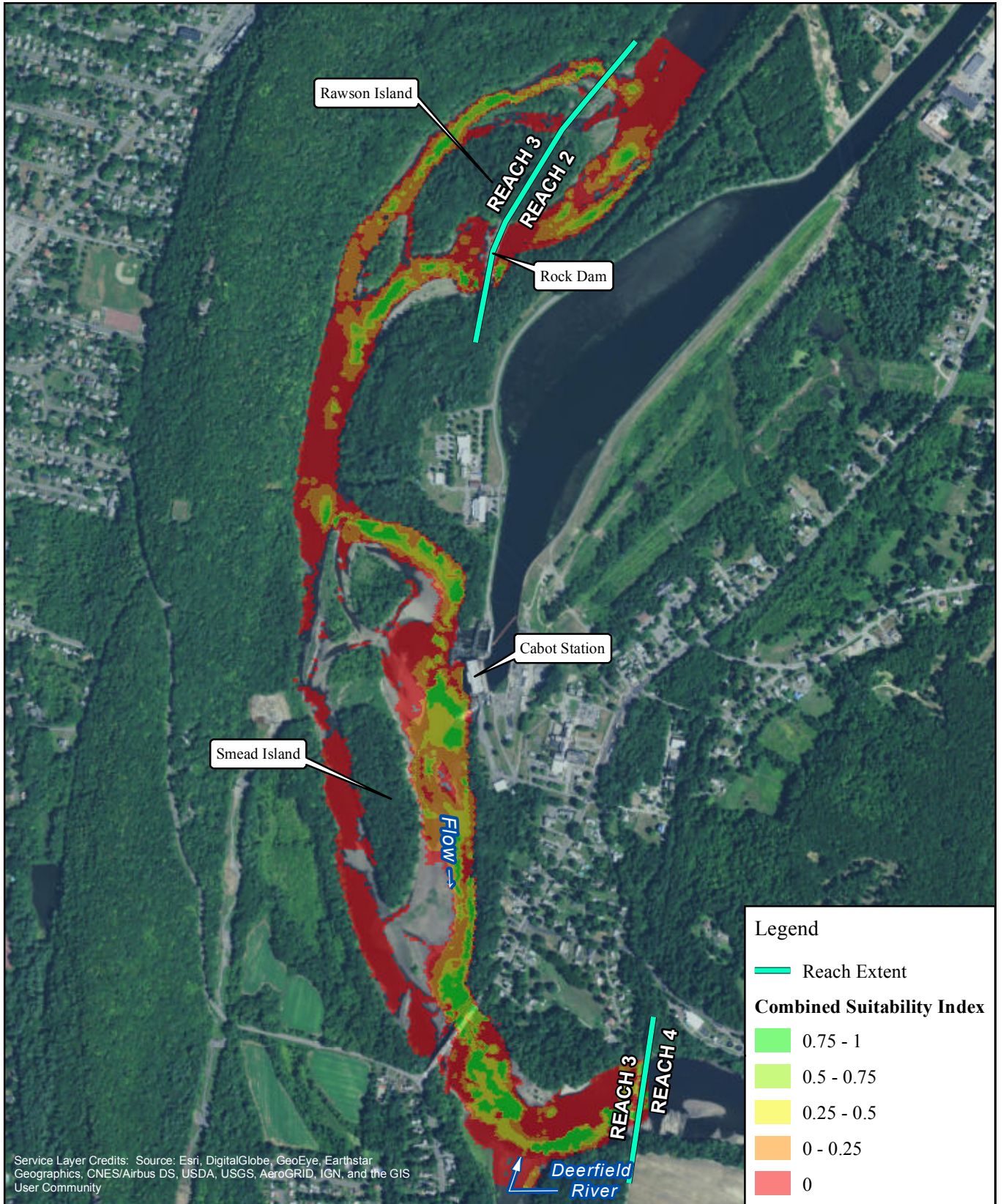
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet

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- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

N

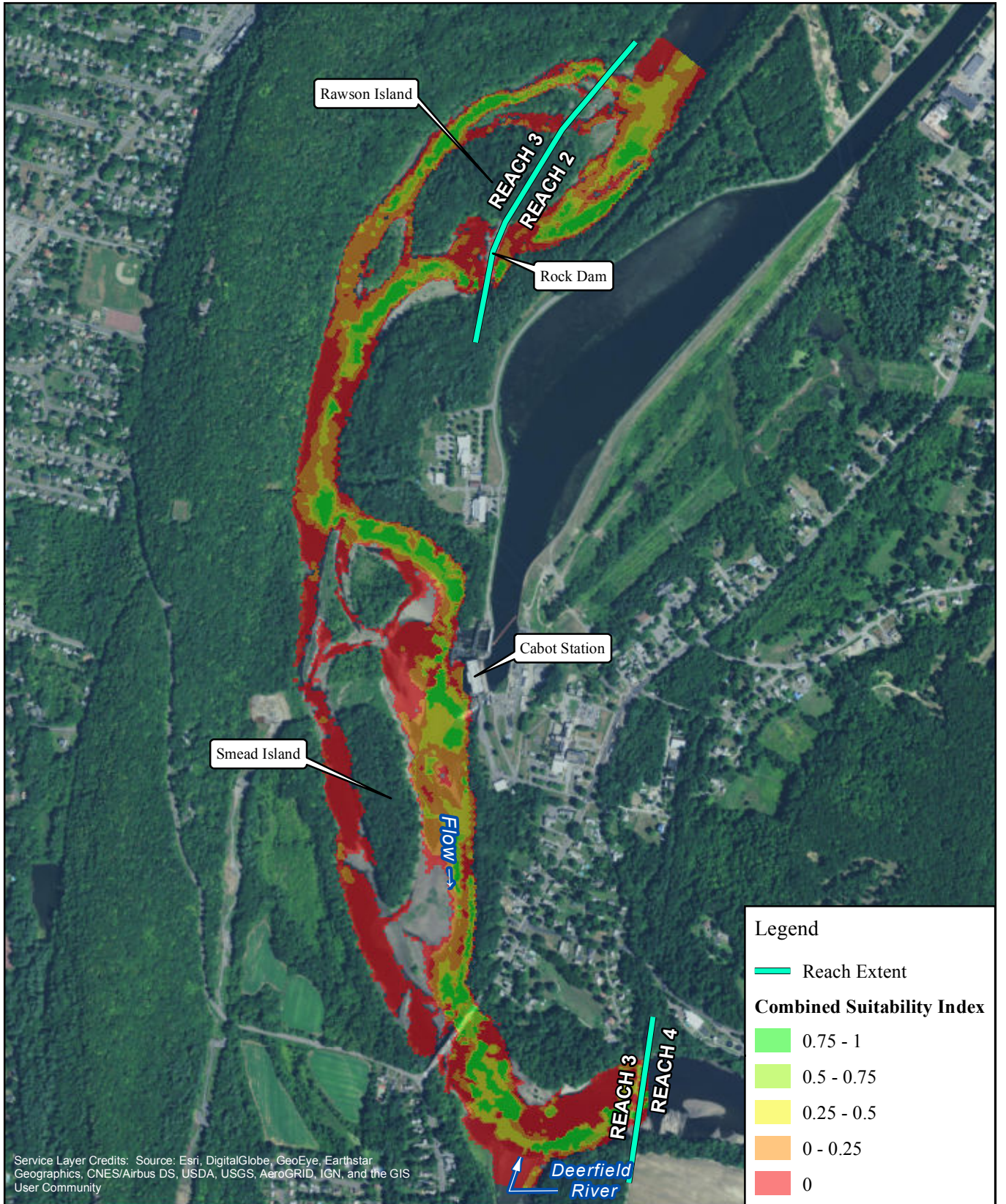
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 Cabot Flow: 2500 cfs  
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0 500 1,000 2,000 Feet

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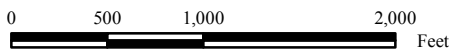


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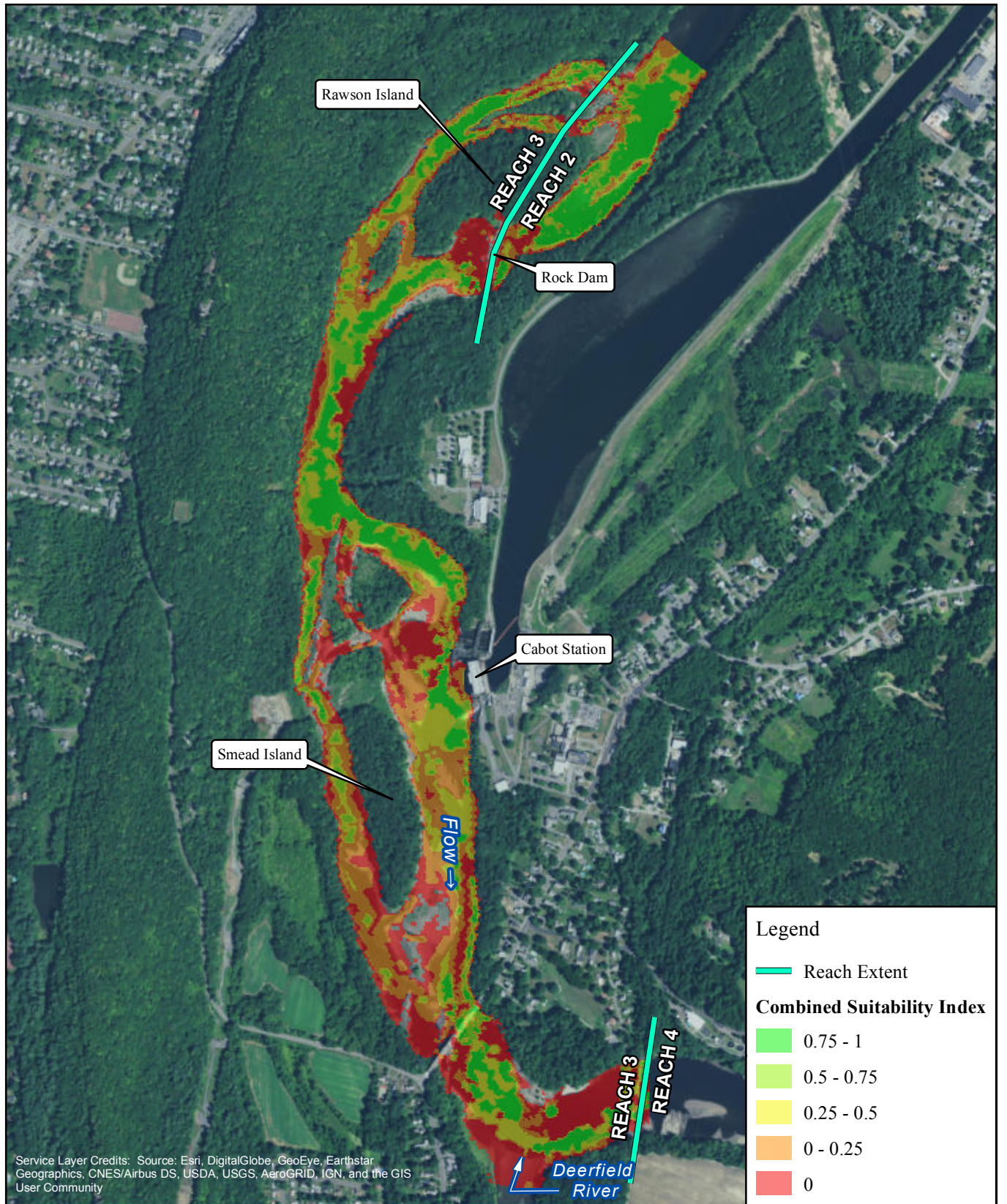


Feet


**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs


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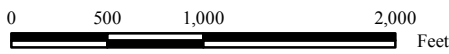




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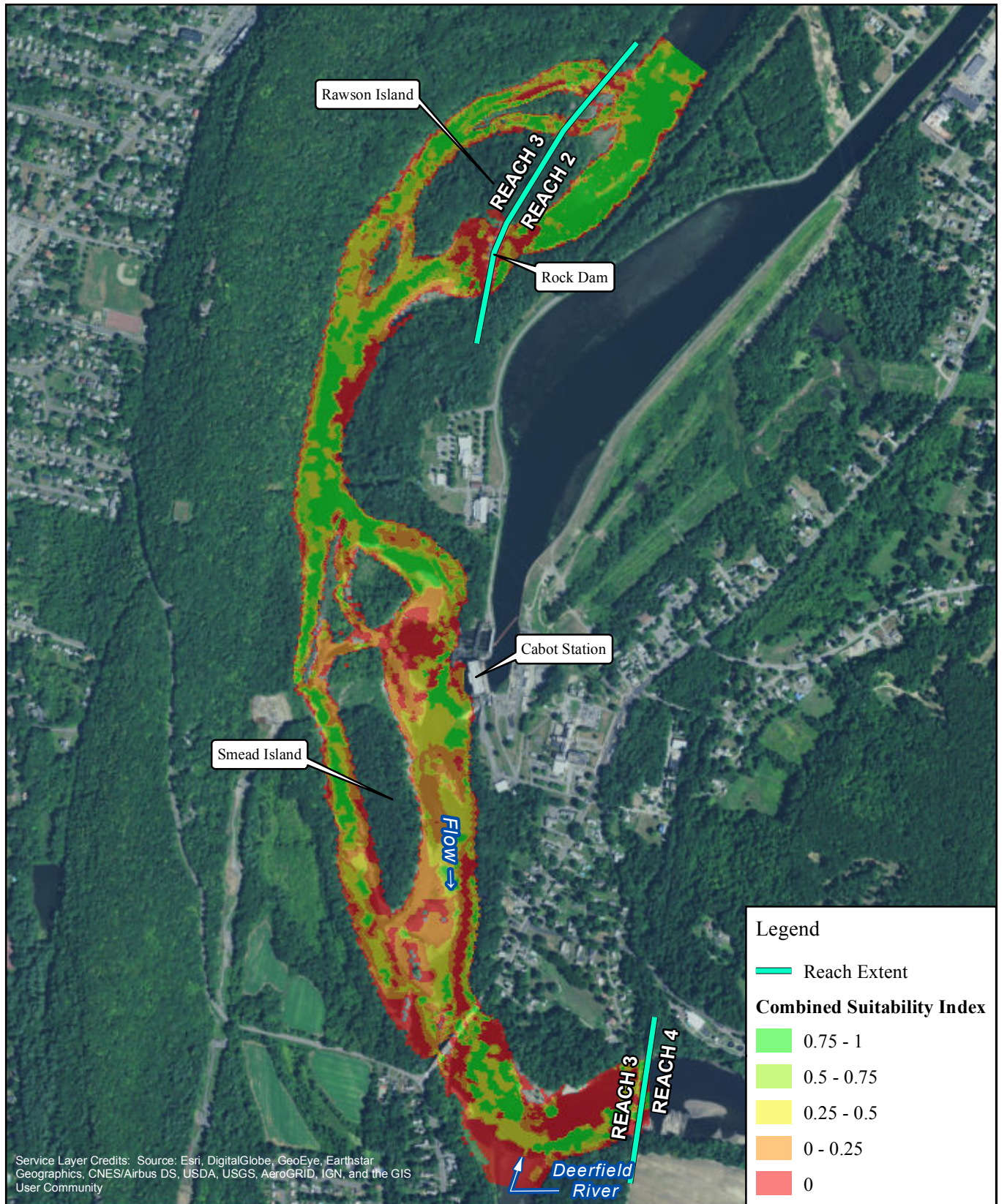




**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 3000 cfs  
 Deerfield Flow: 200 cfs

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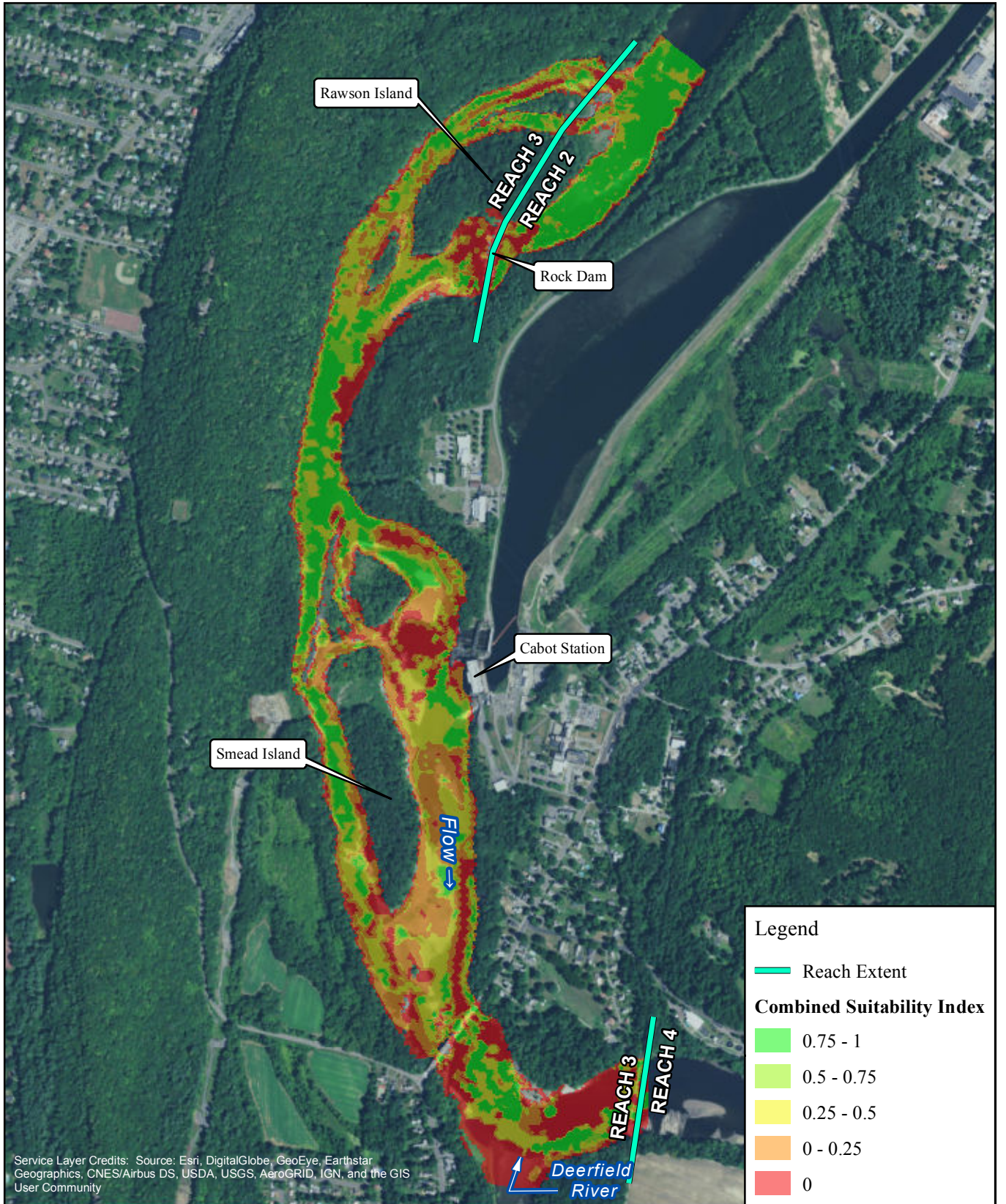
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 2500 cfs  
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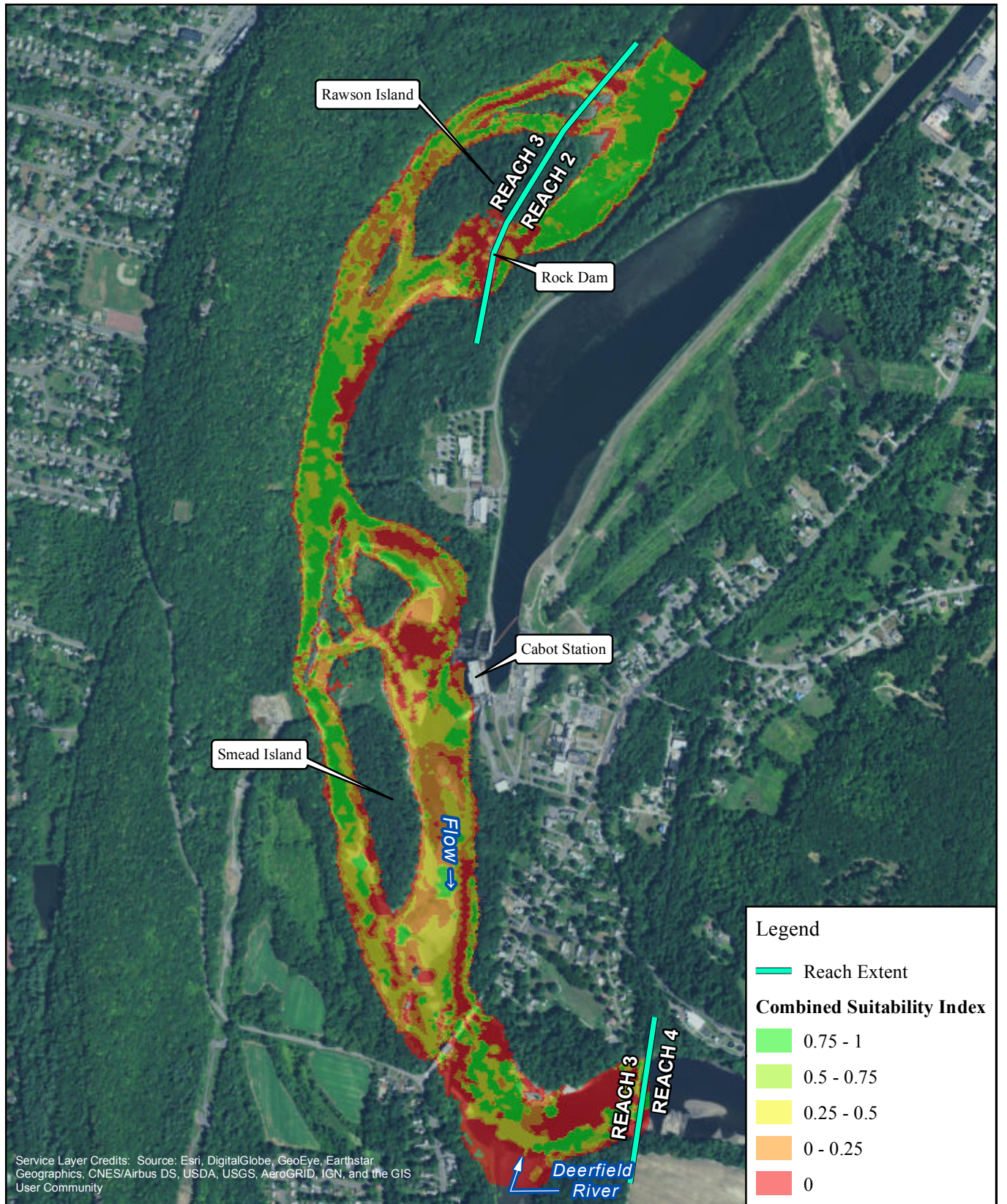
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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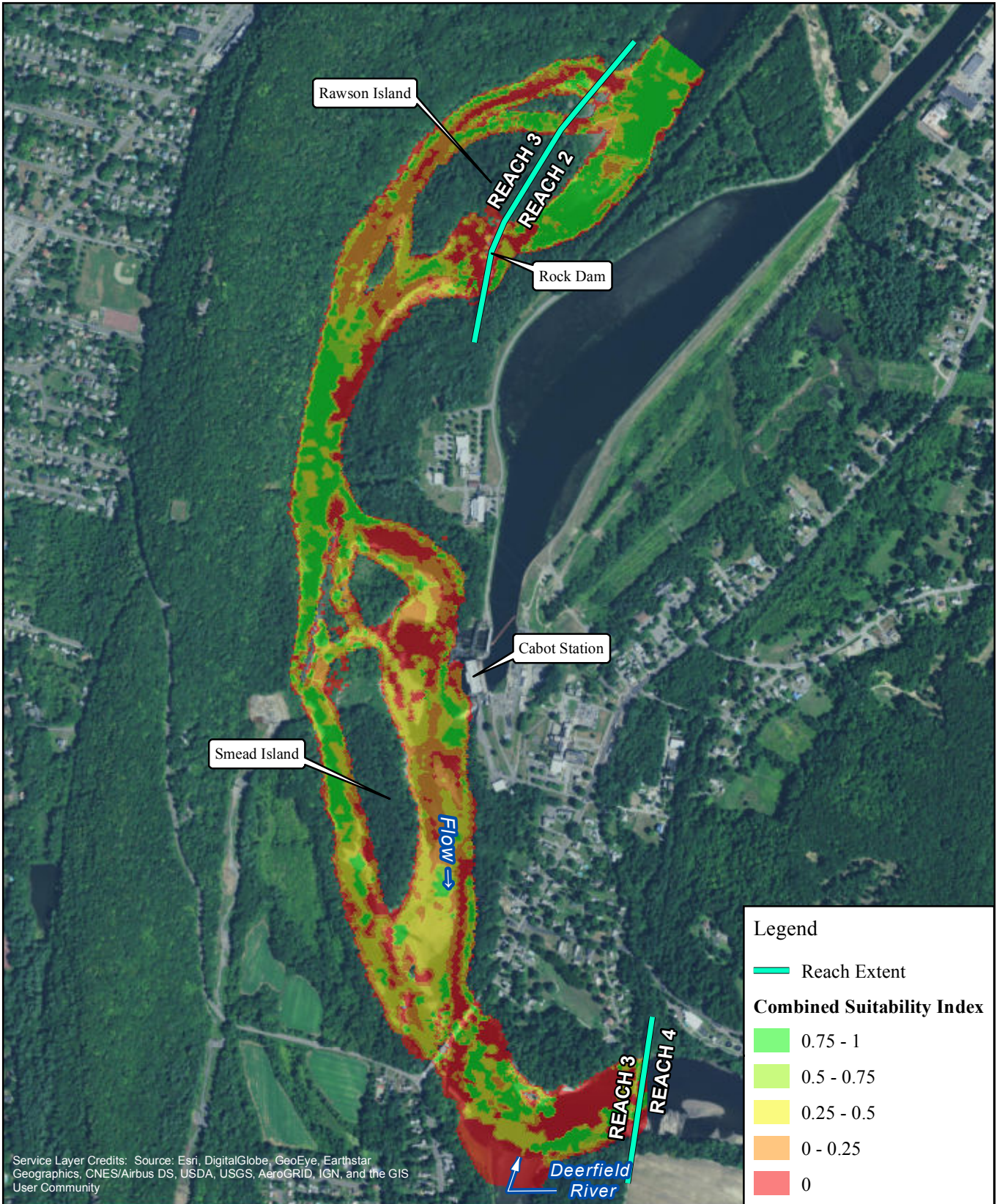
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**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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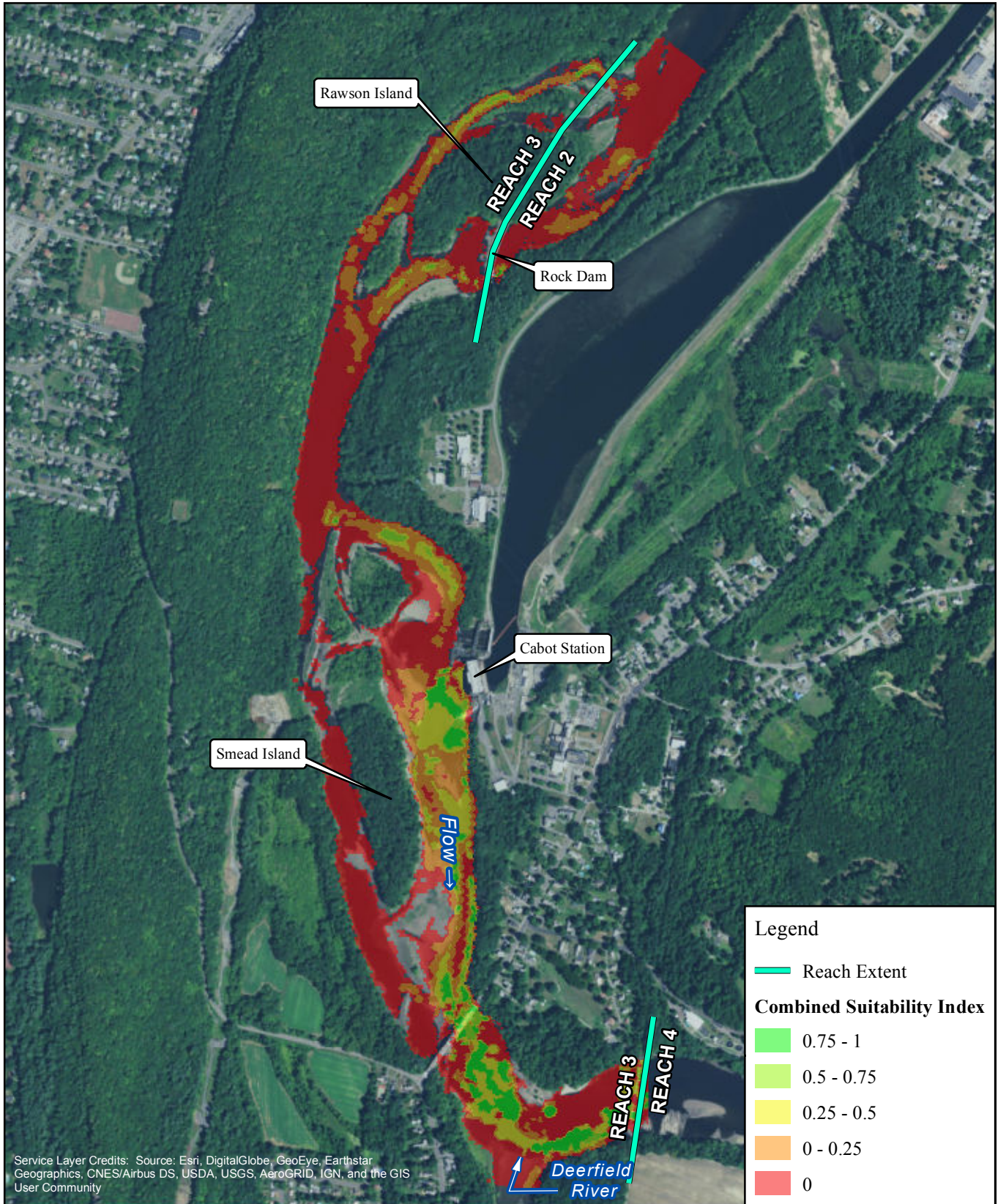
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Shortnose Sturgeon-Spawning  
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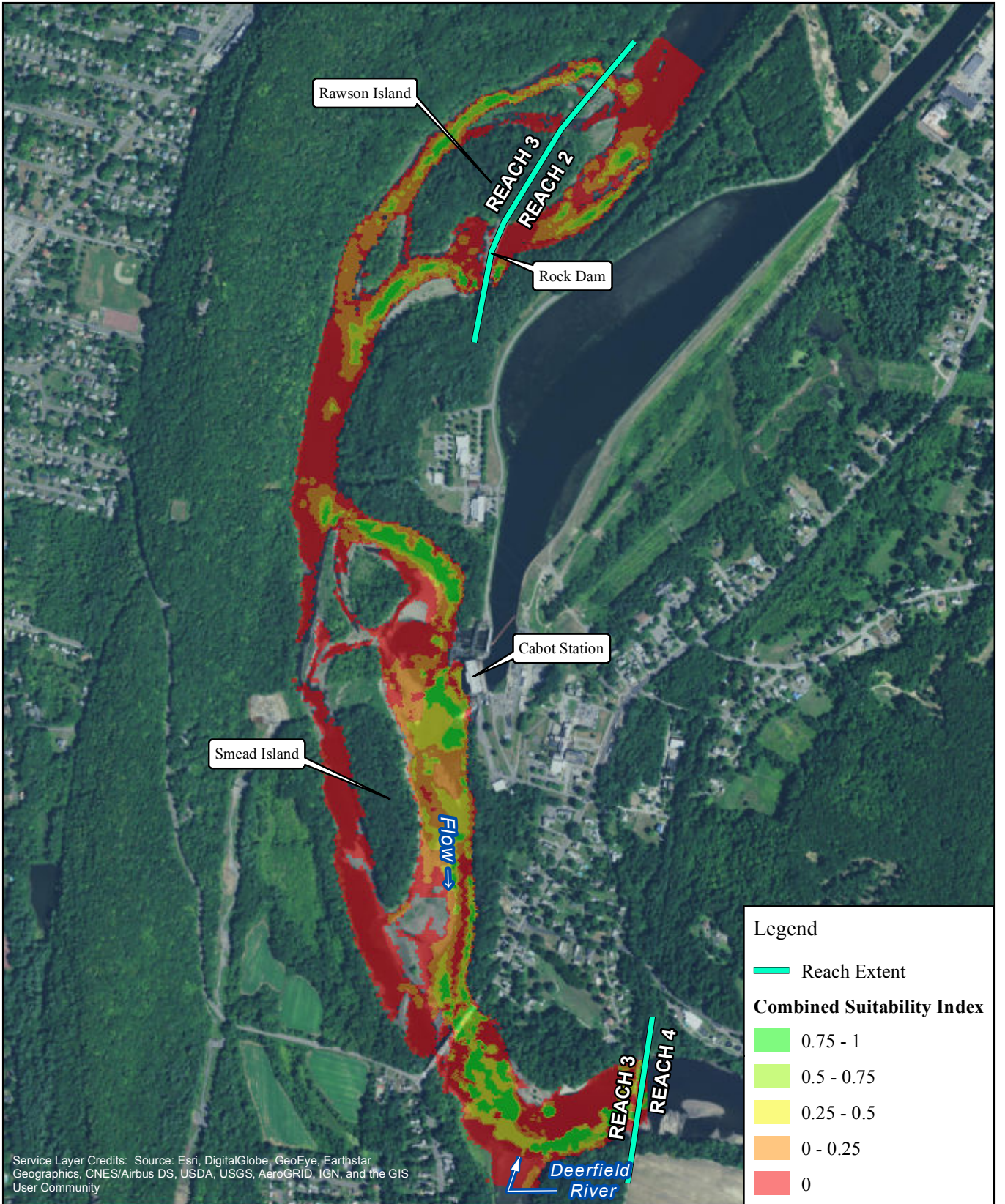
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**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet

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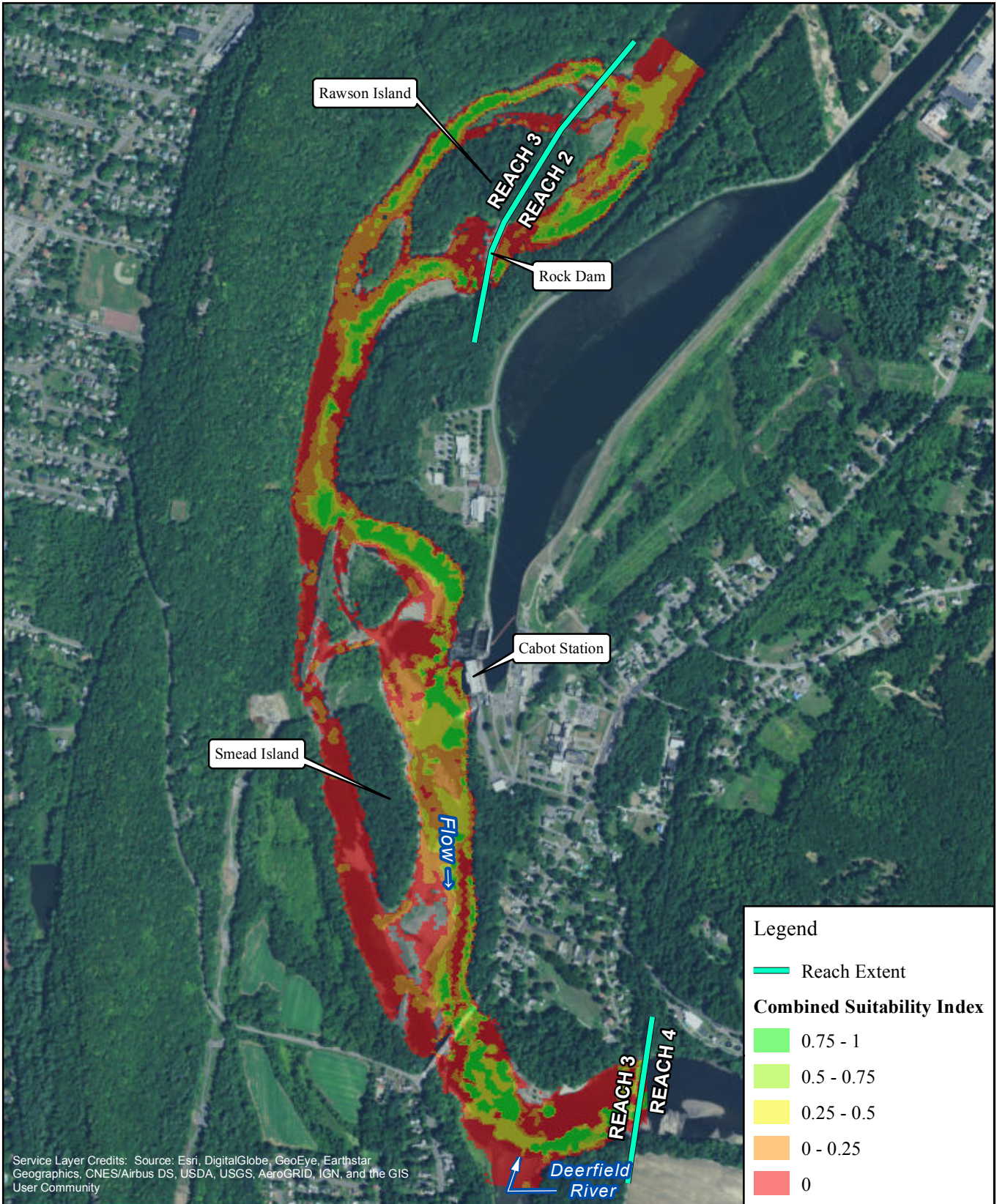
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Shortnose Sturgeon-Spawning  
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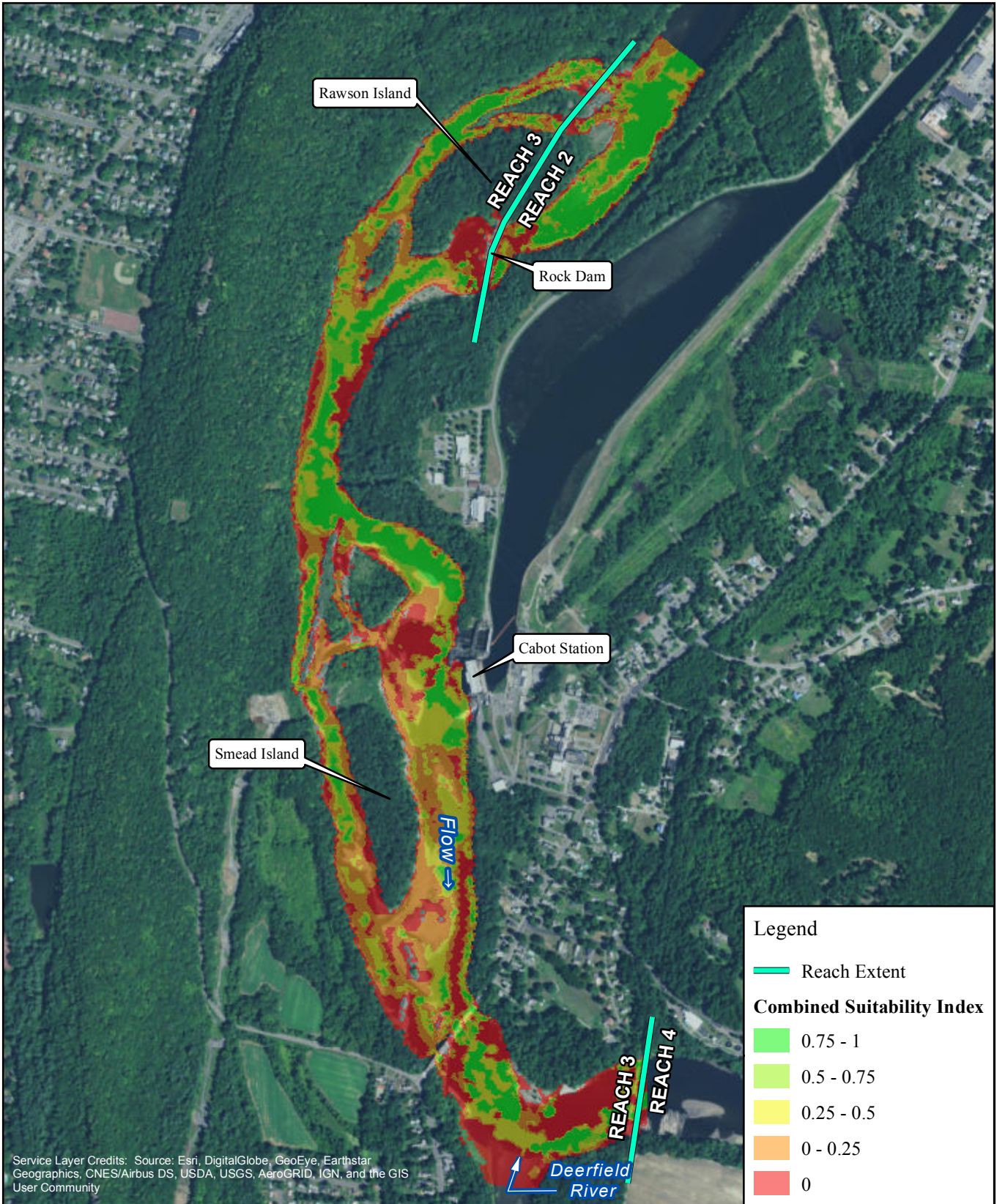
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Shortnose Sturgeon-Spawning  
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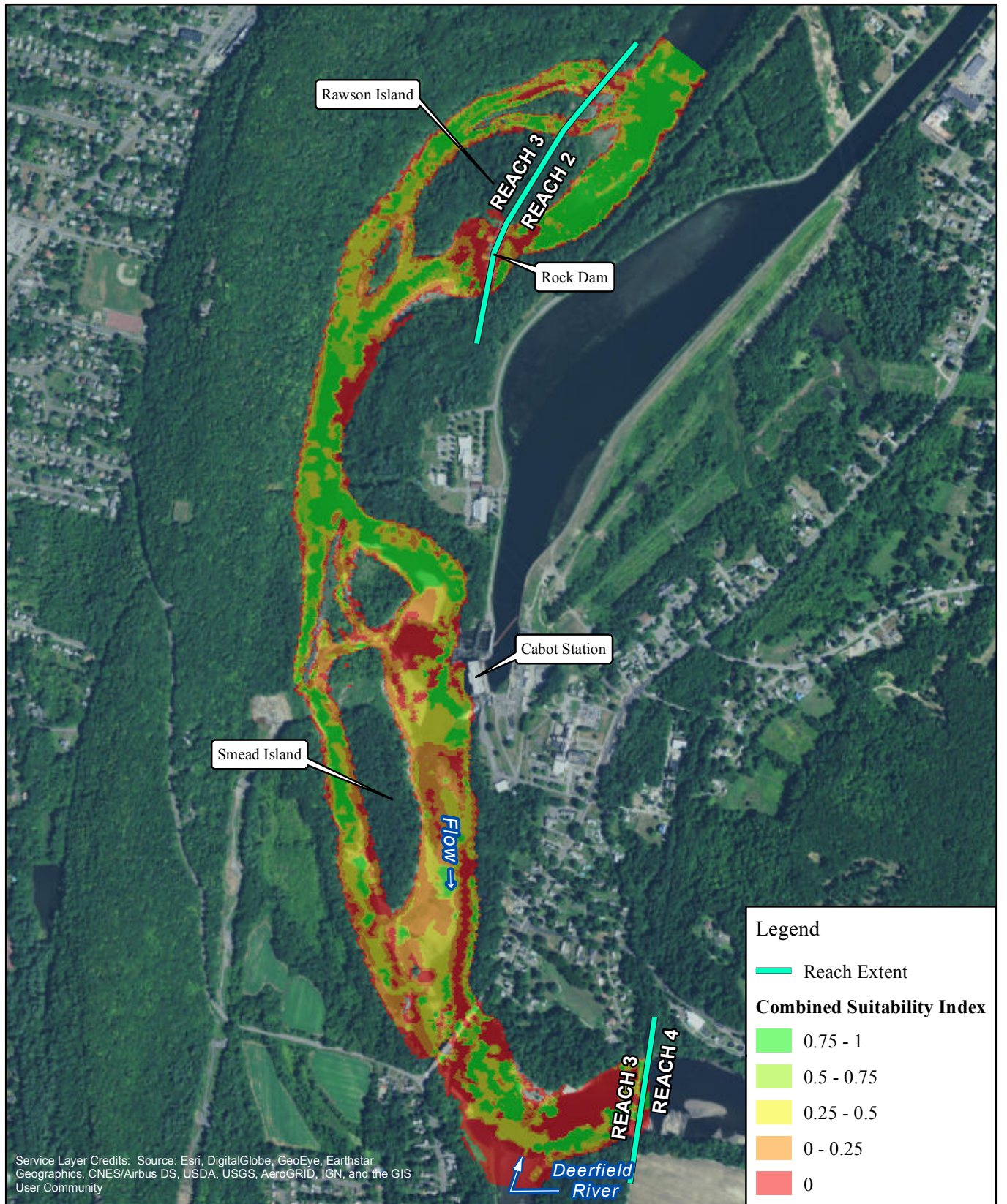
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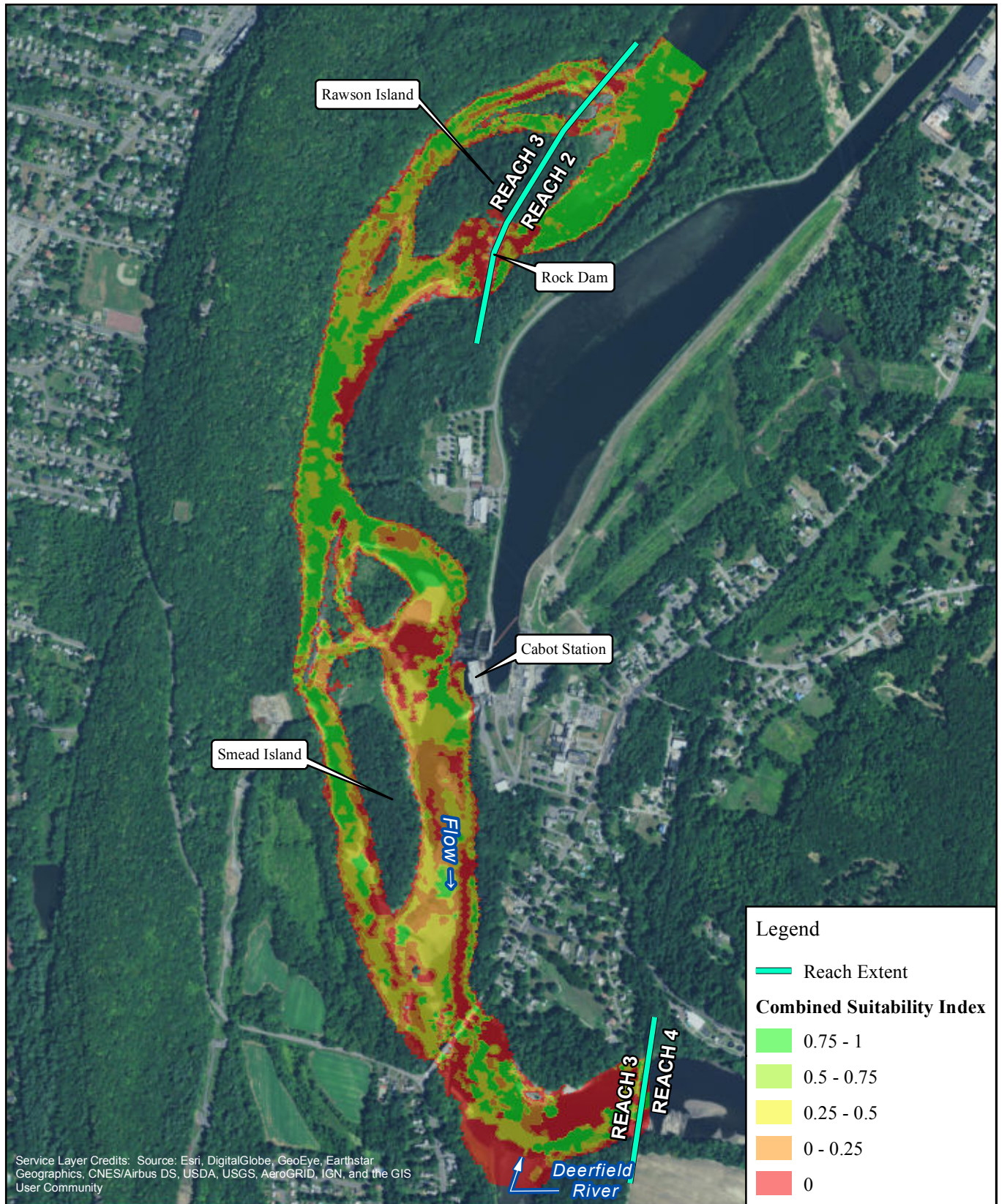
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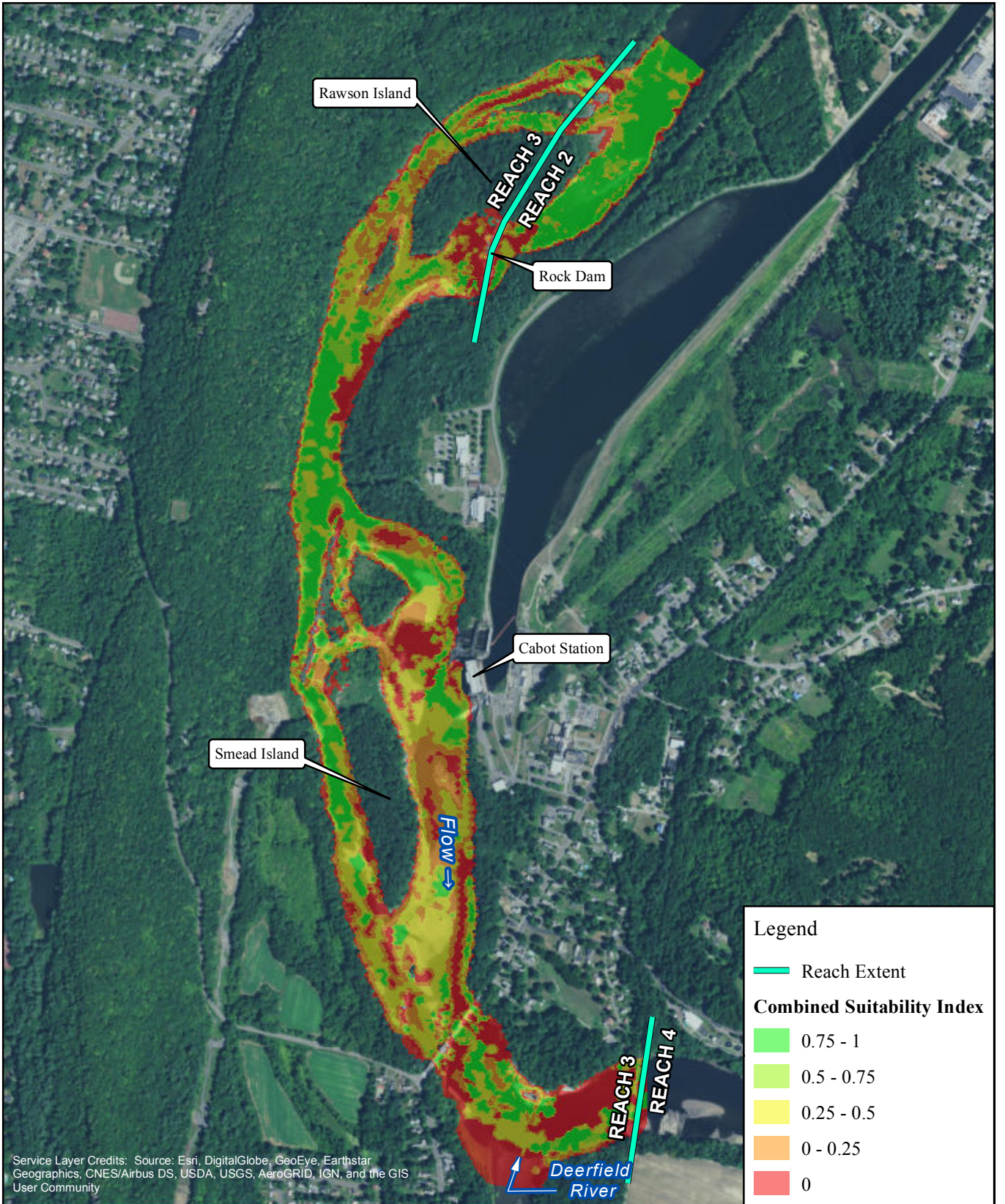
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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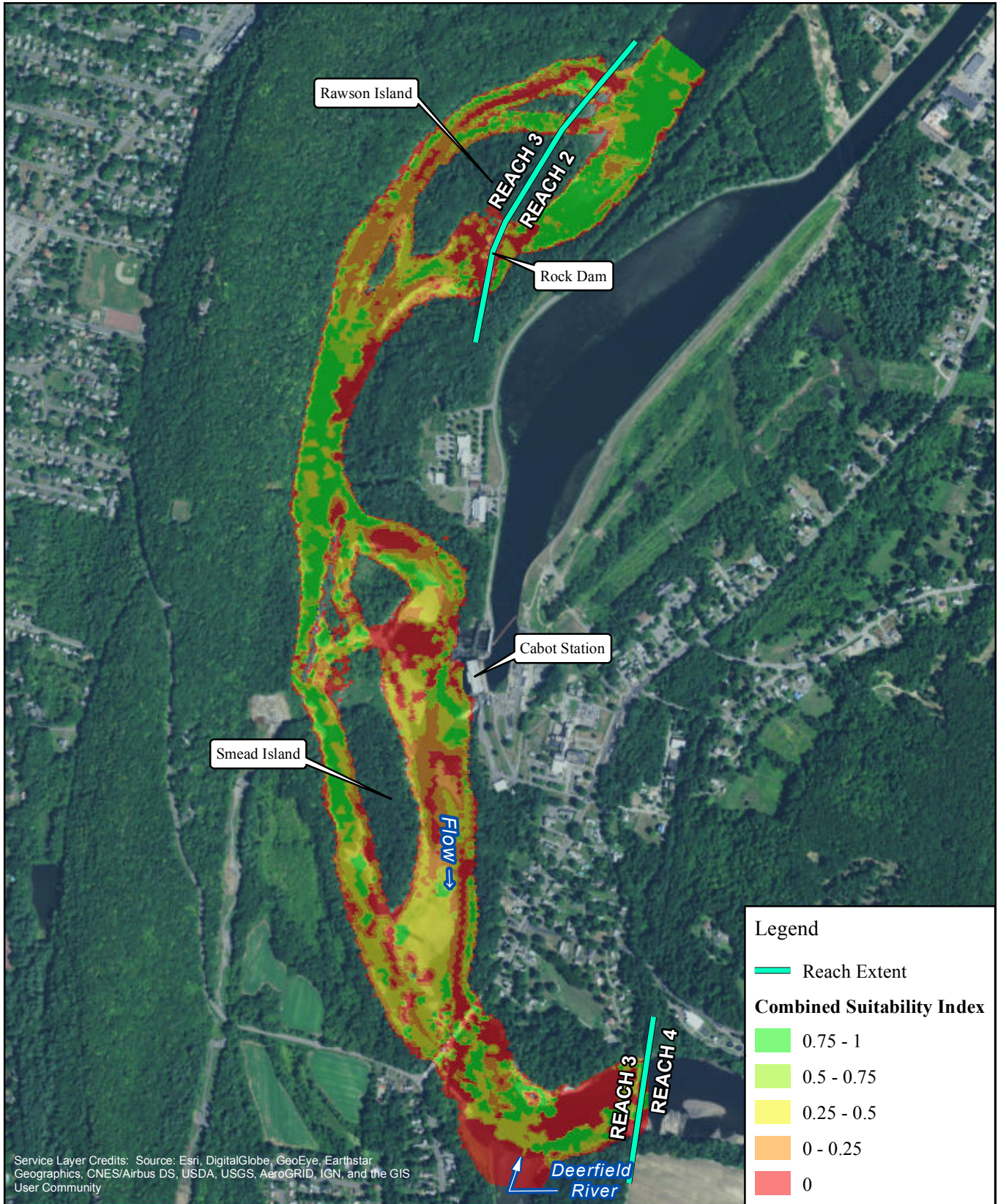
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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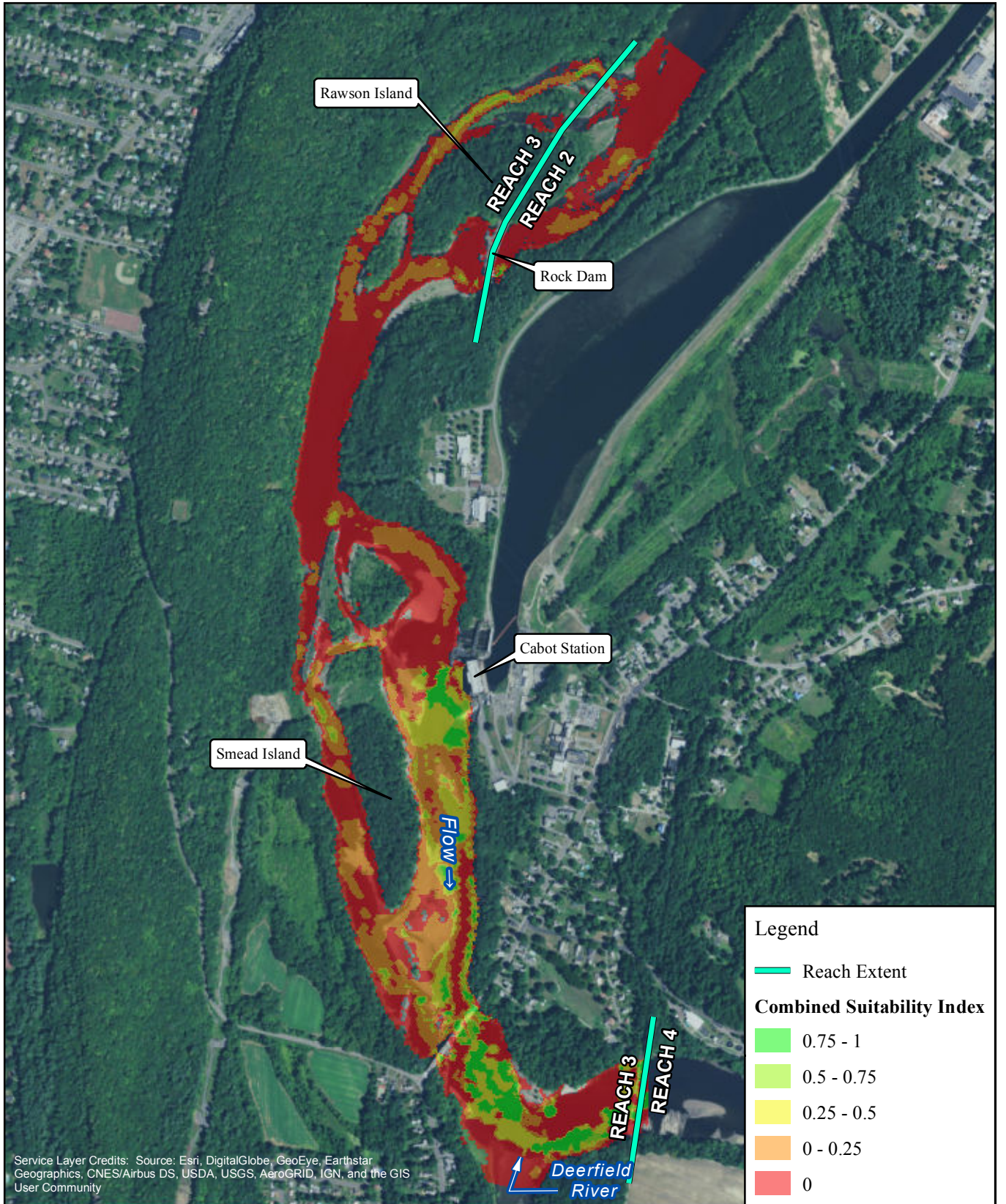
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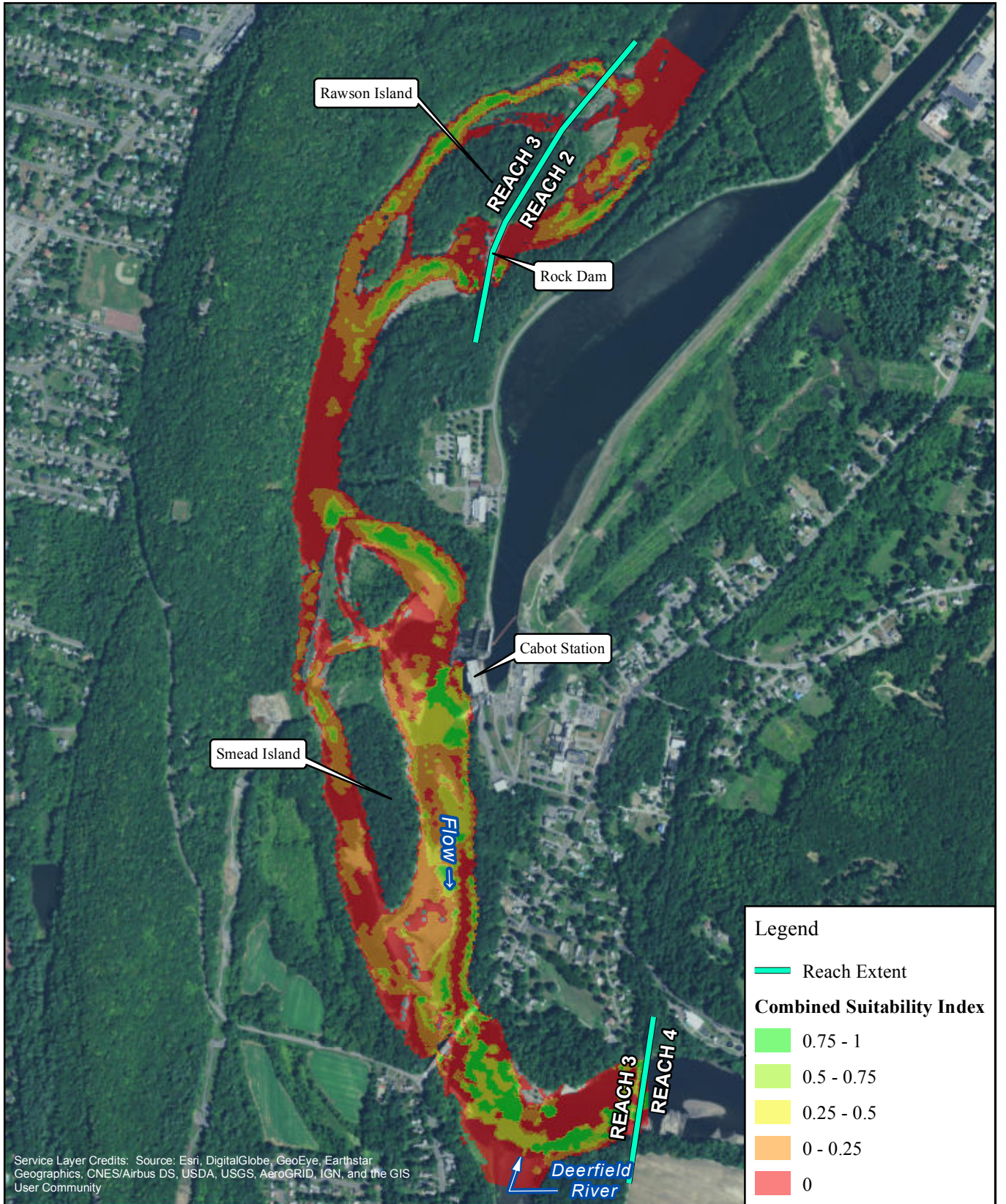
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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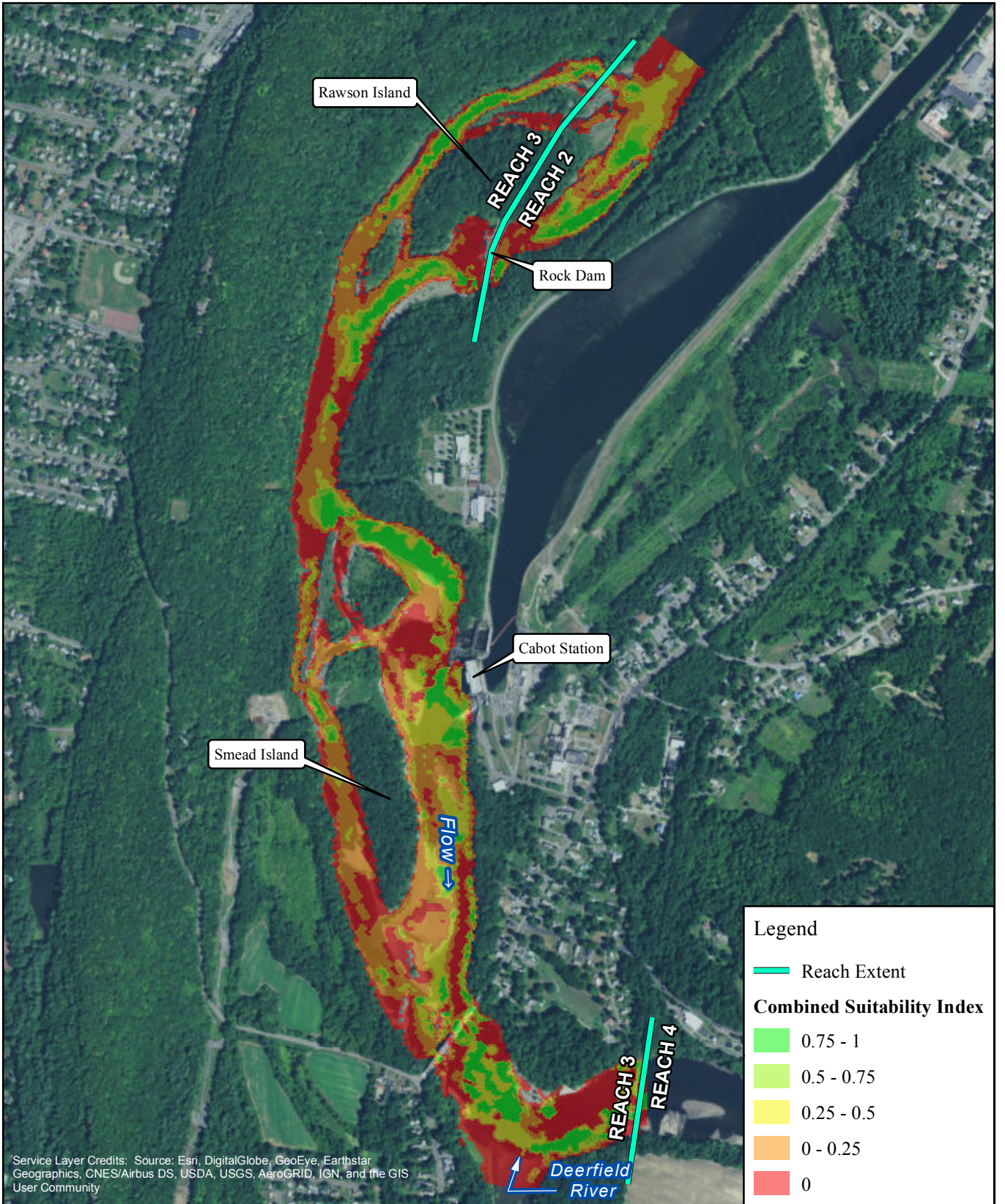
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Shortnose Sturgeon-Spawning  
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 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

- Reach Extent

**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

N

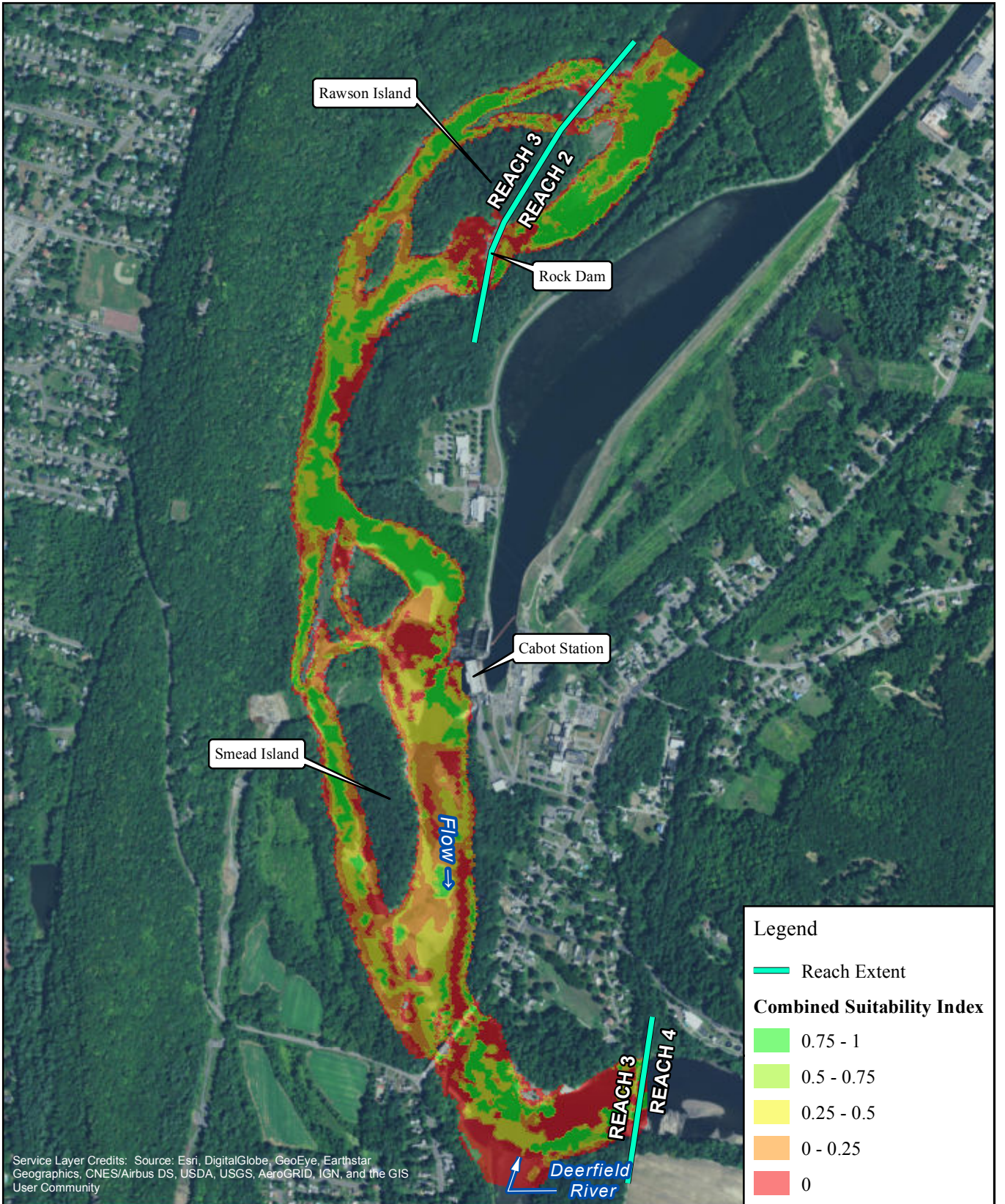
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0 500 1,000 2,000 Feet

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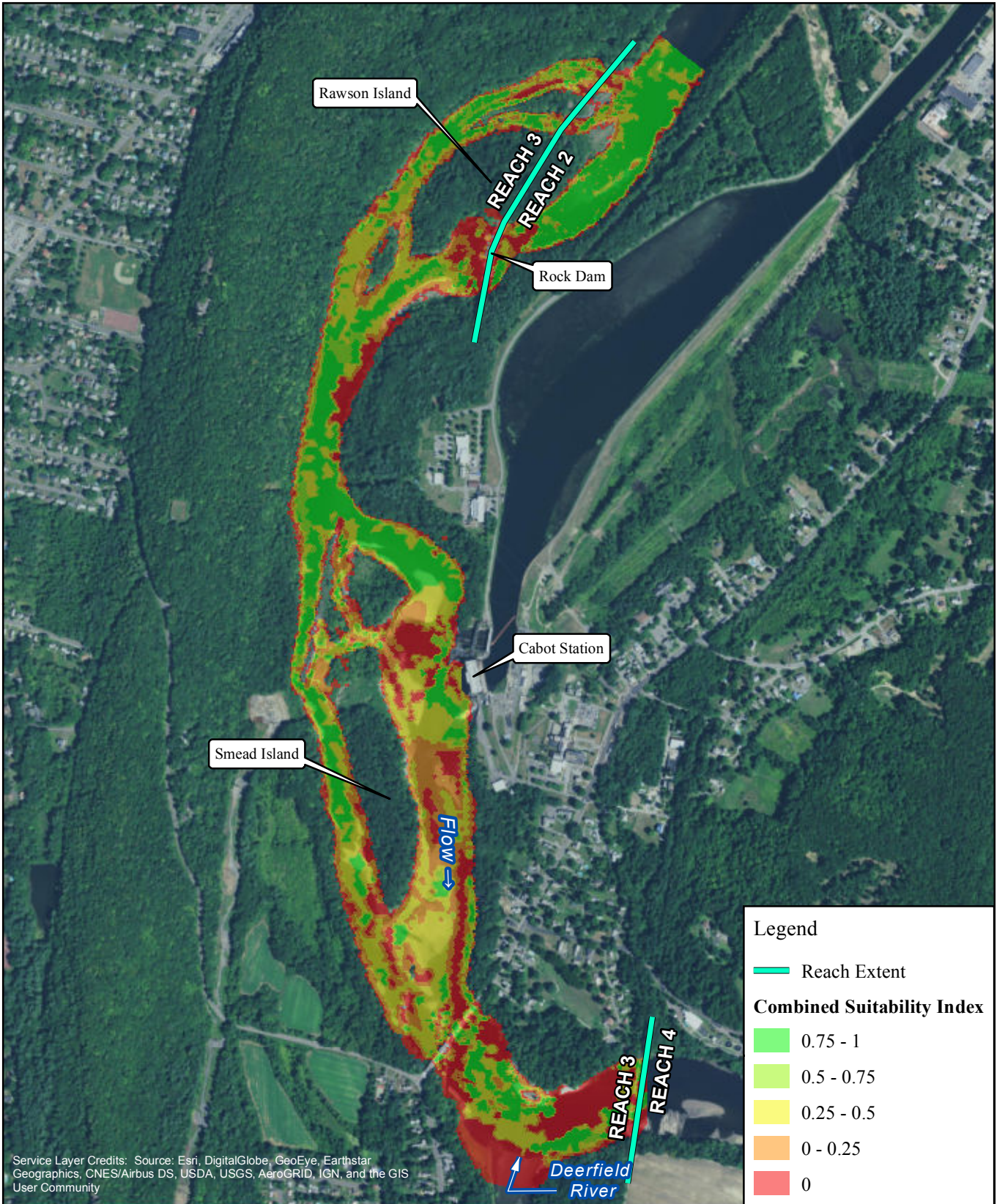
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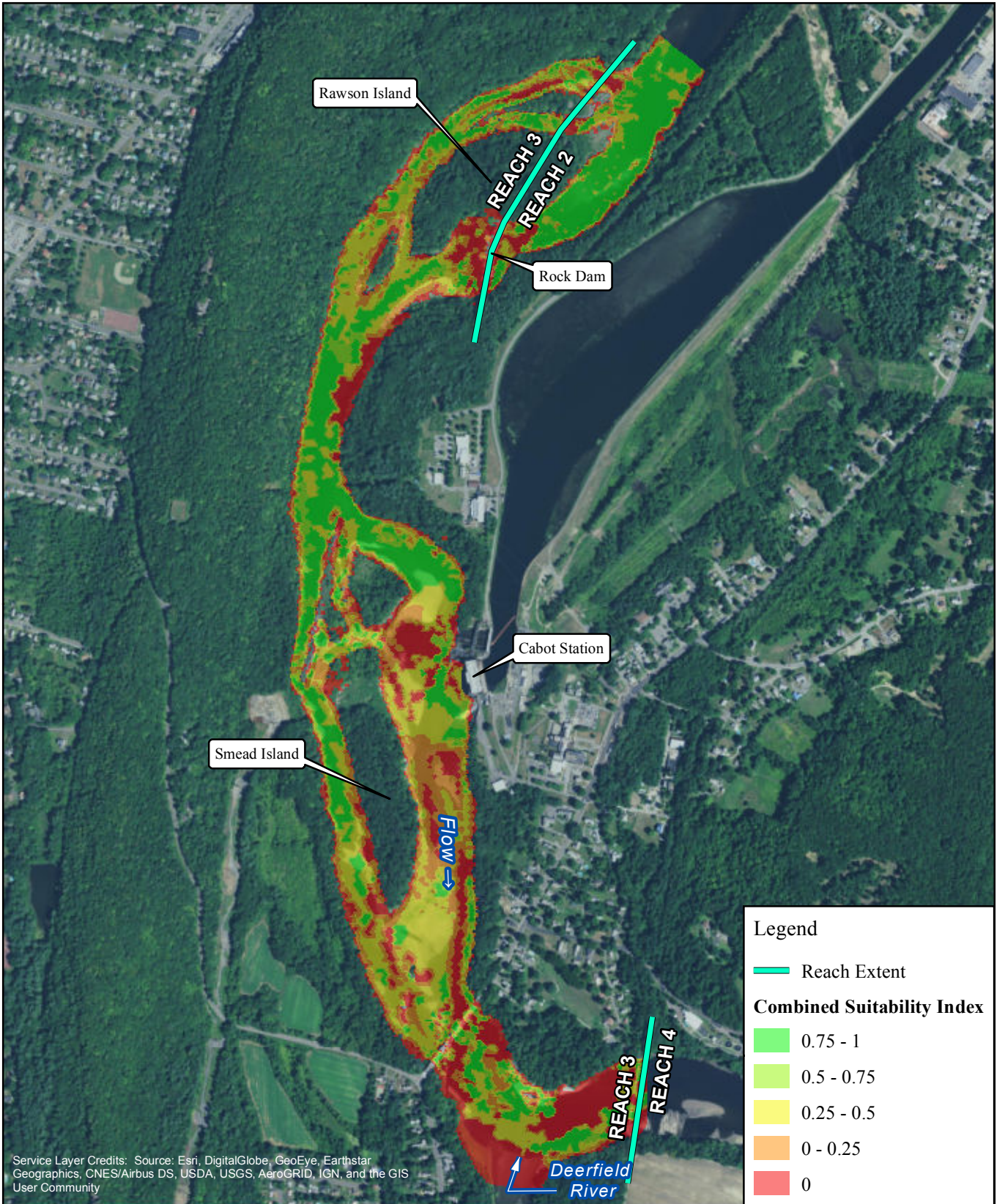
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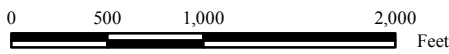


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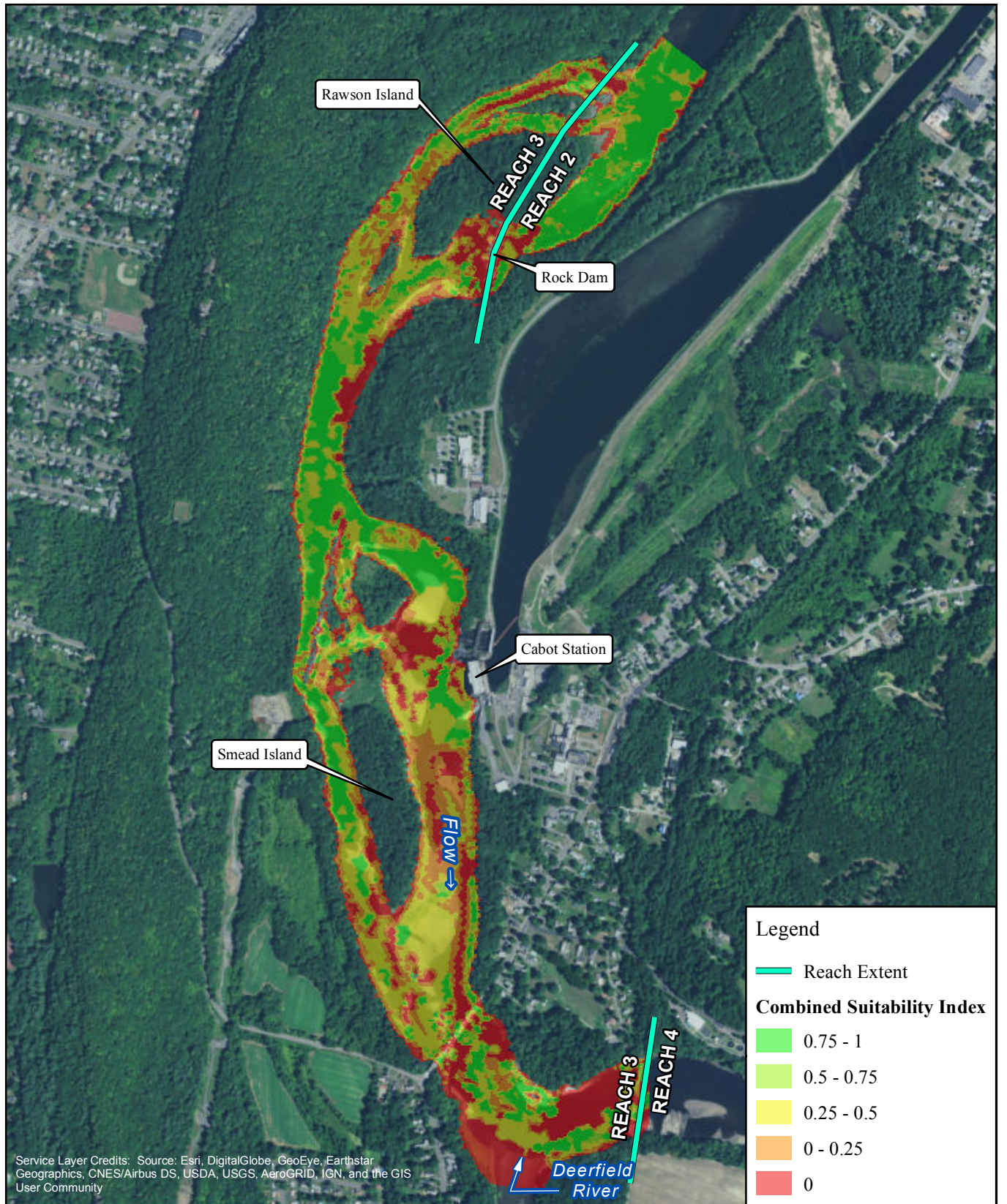


0 500 1,000 2,000 Feet

**Shortnose Sturgeon-Spawning**  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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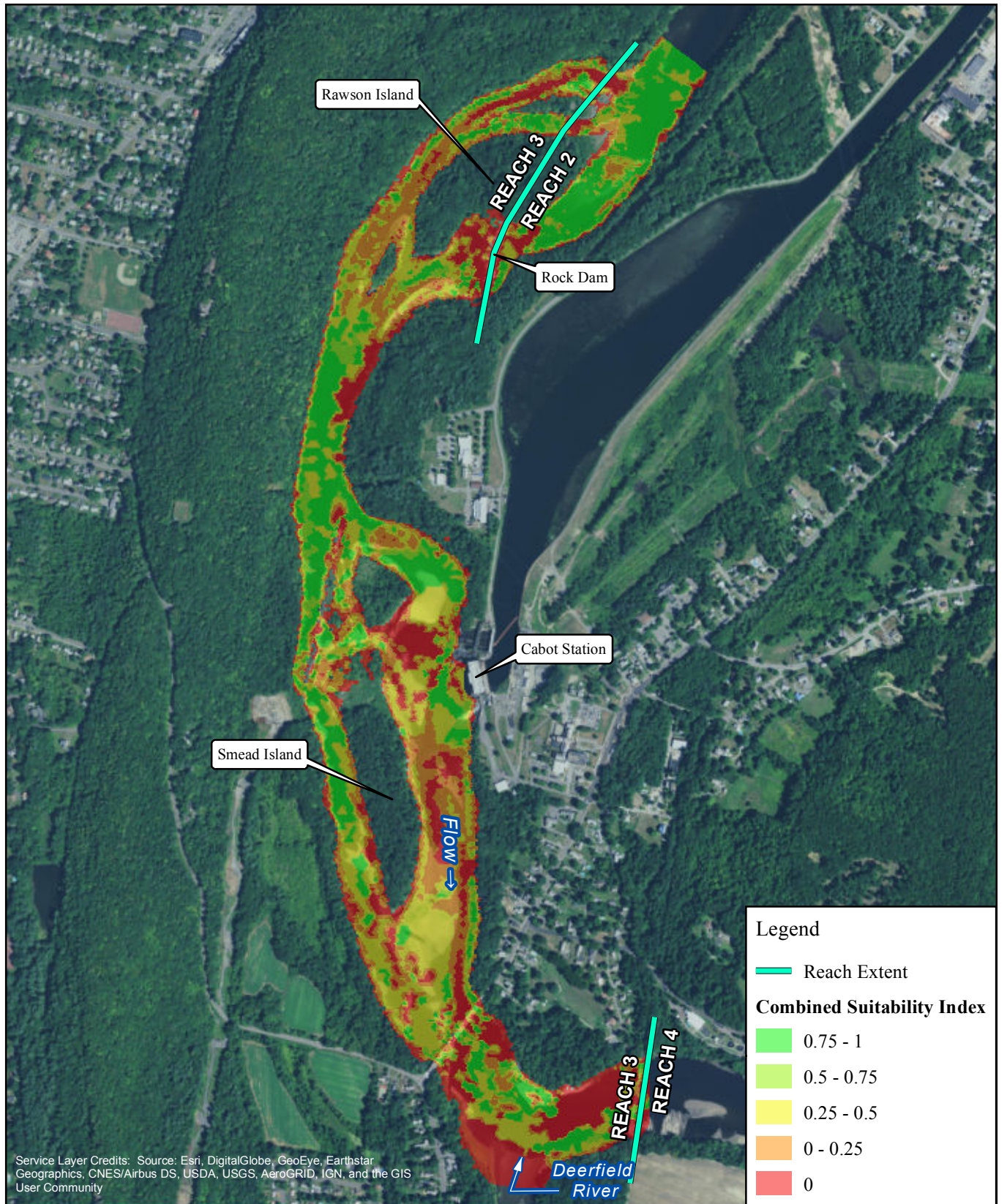
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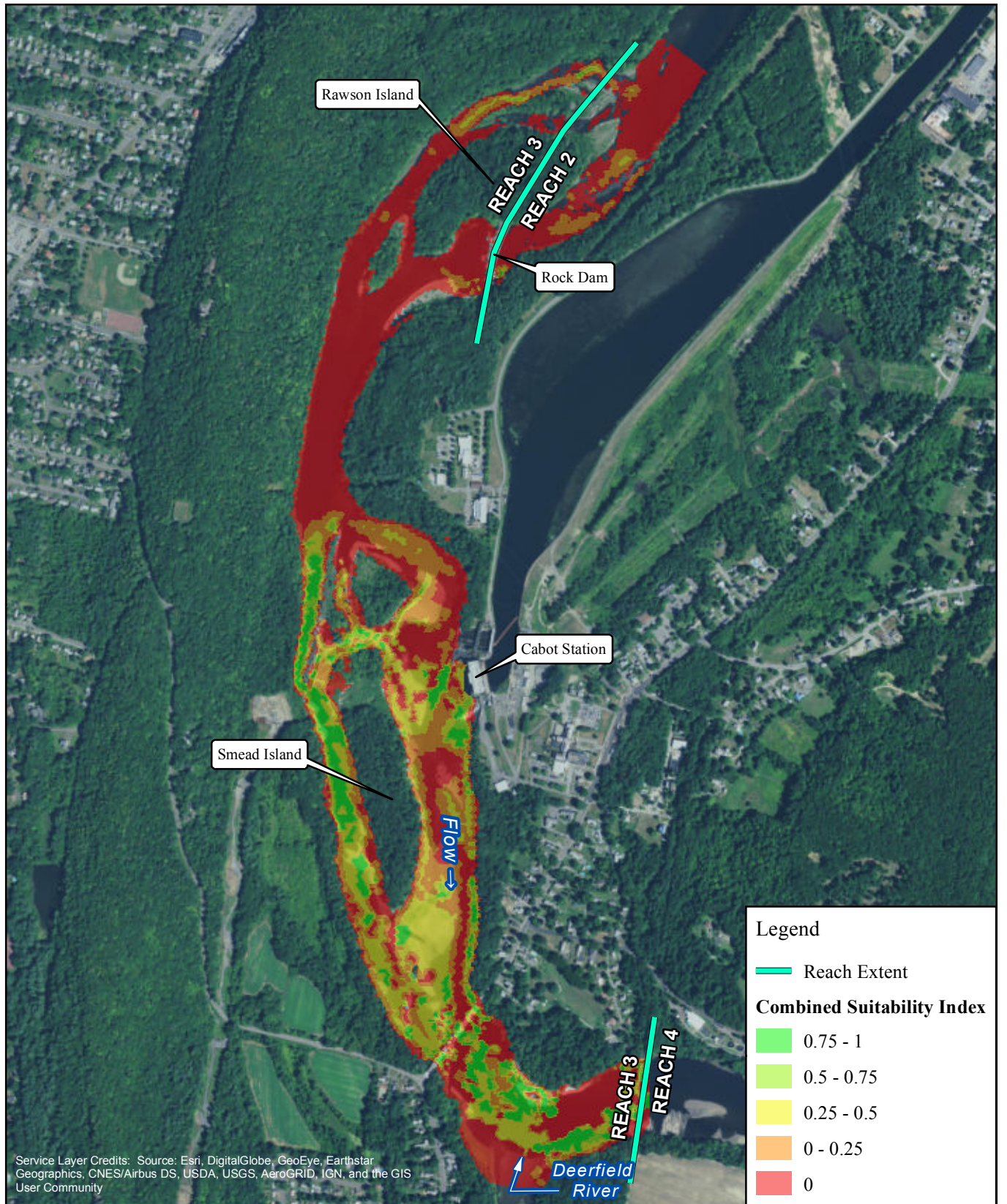
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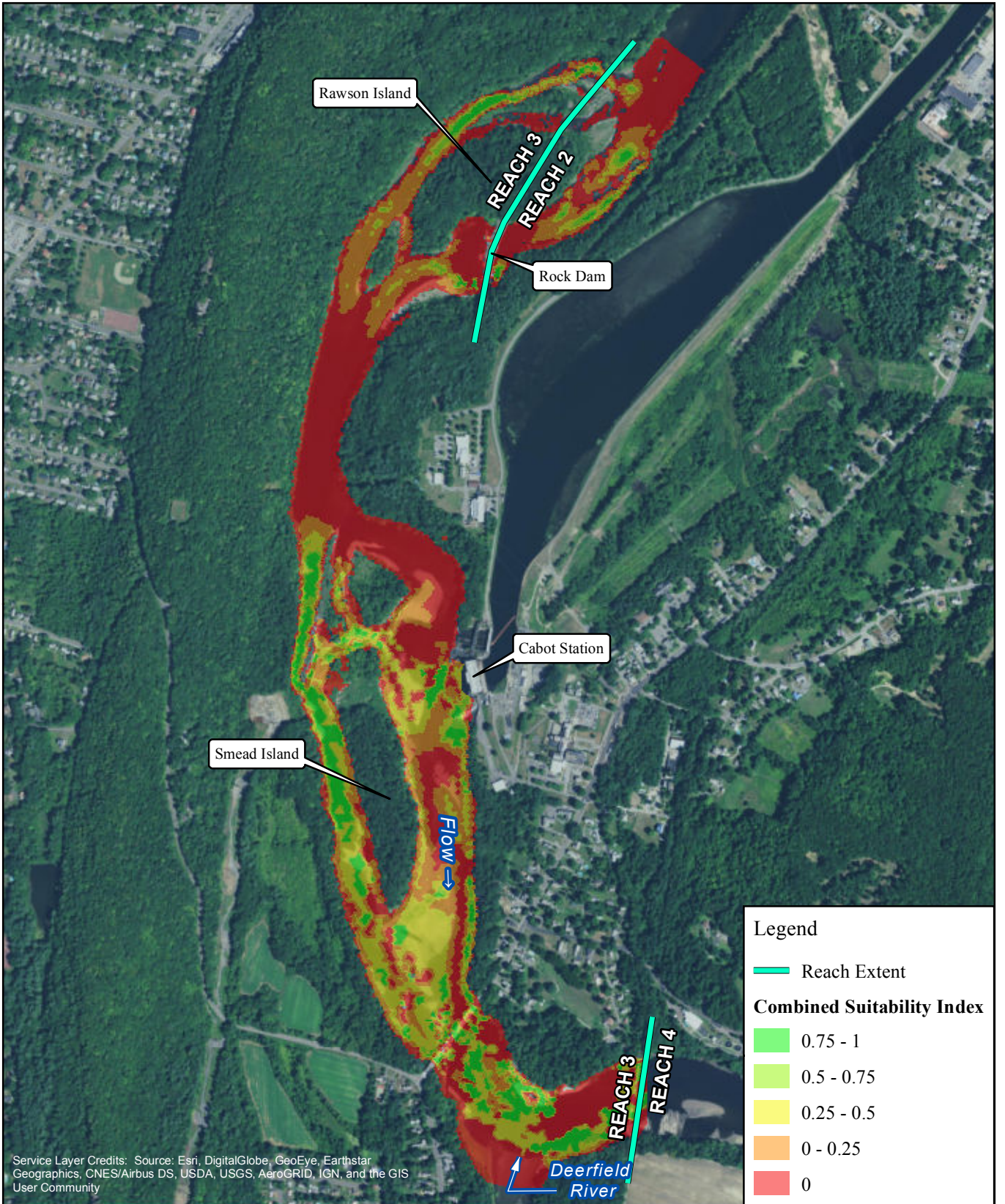
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Shortnose Sturgeon-Spawning  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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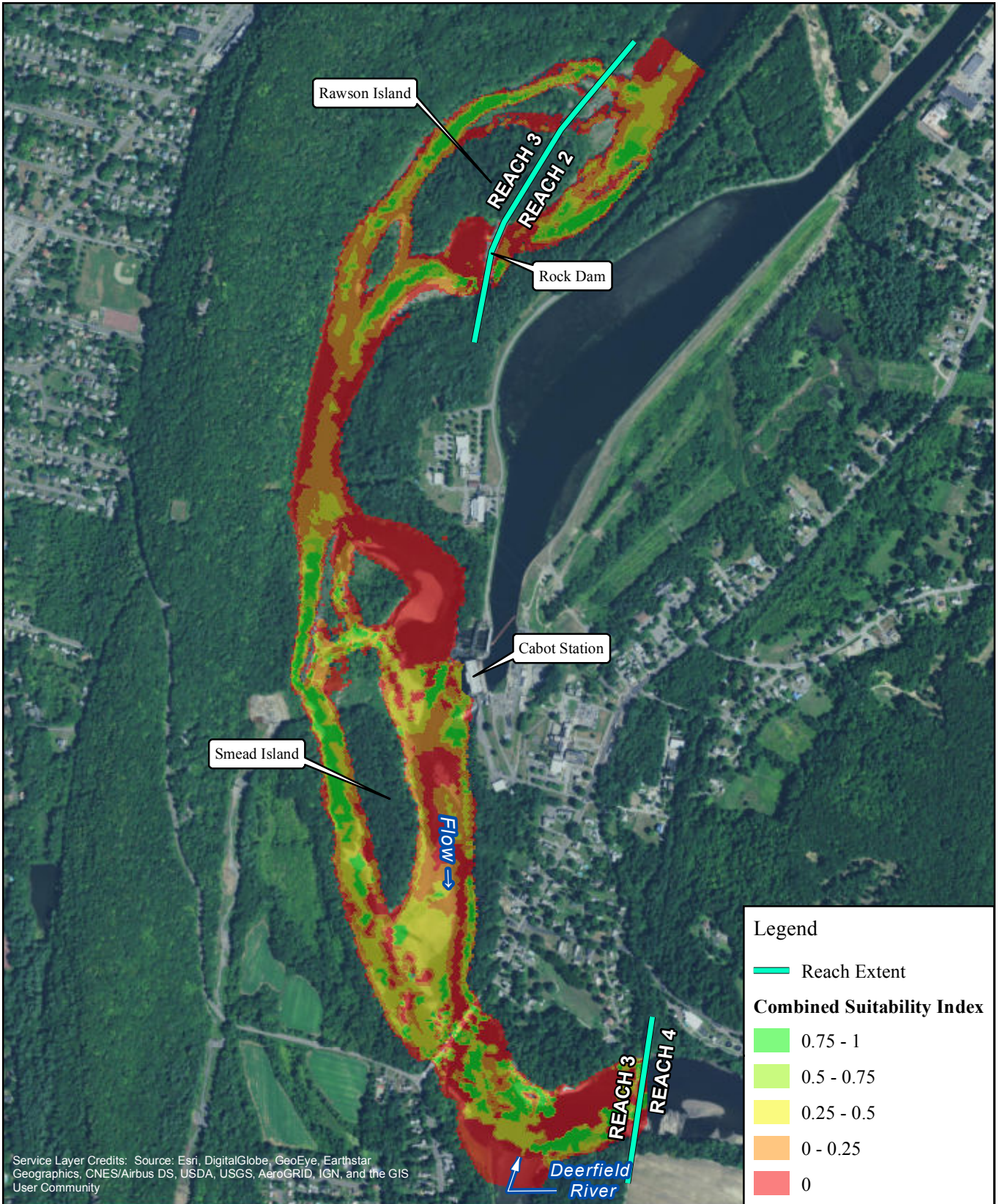
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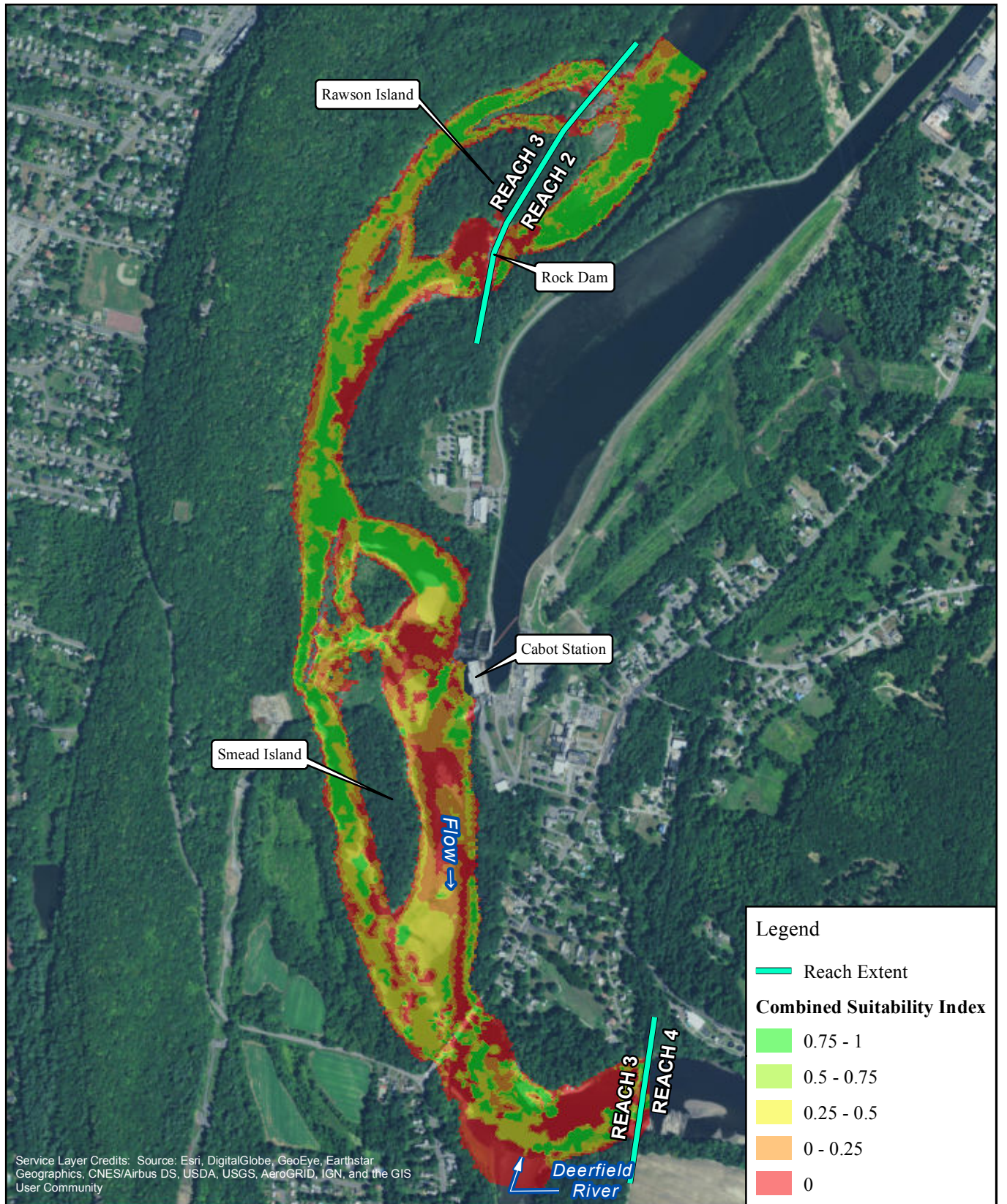
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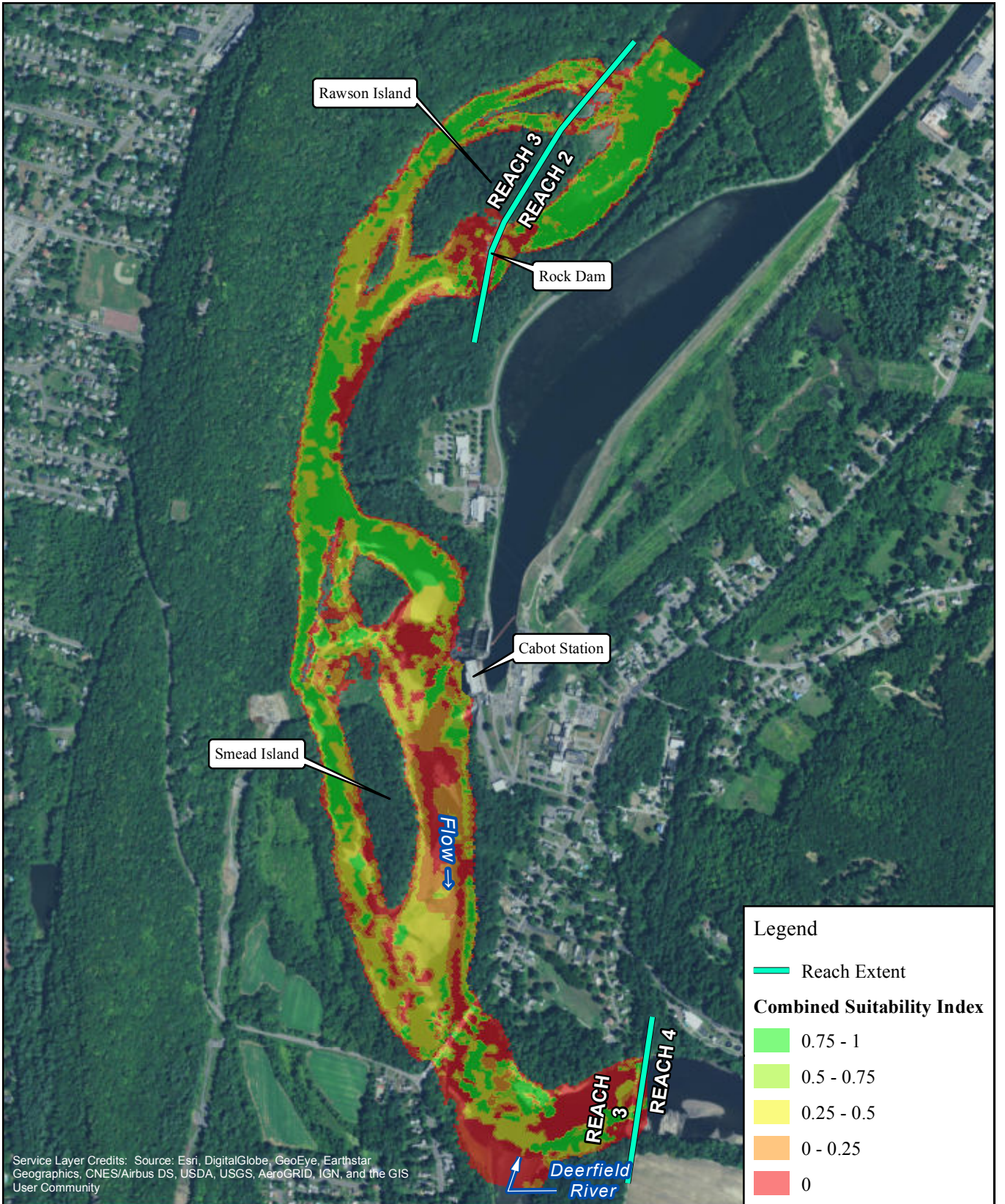
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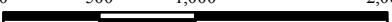


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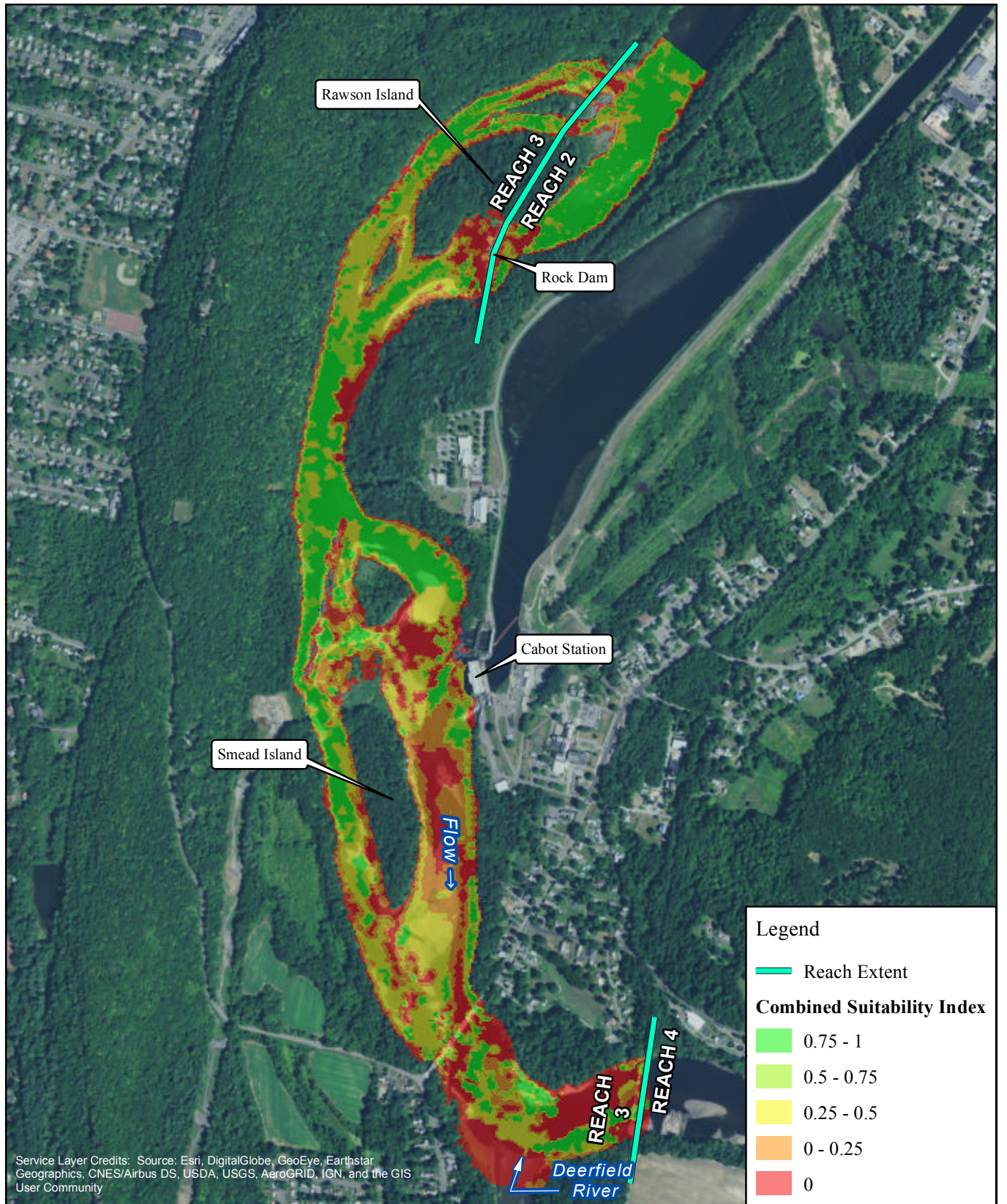
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0 500 1,000 2,000 Feet



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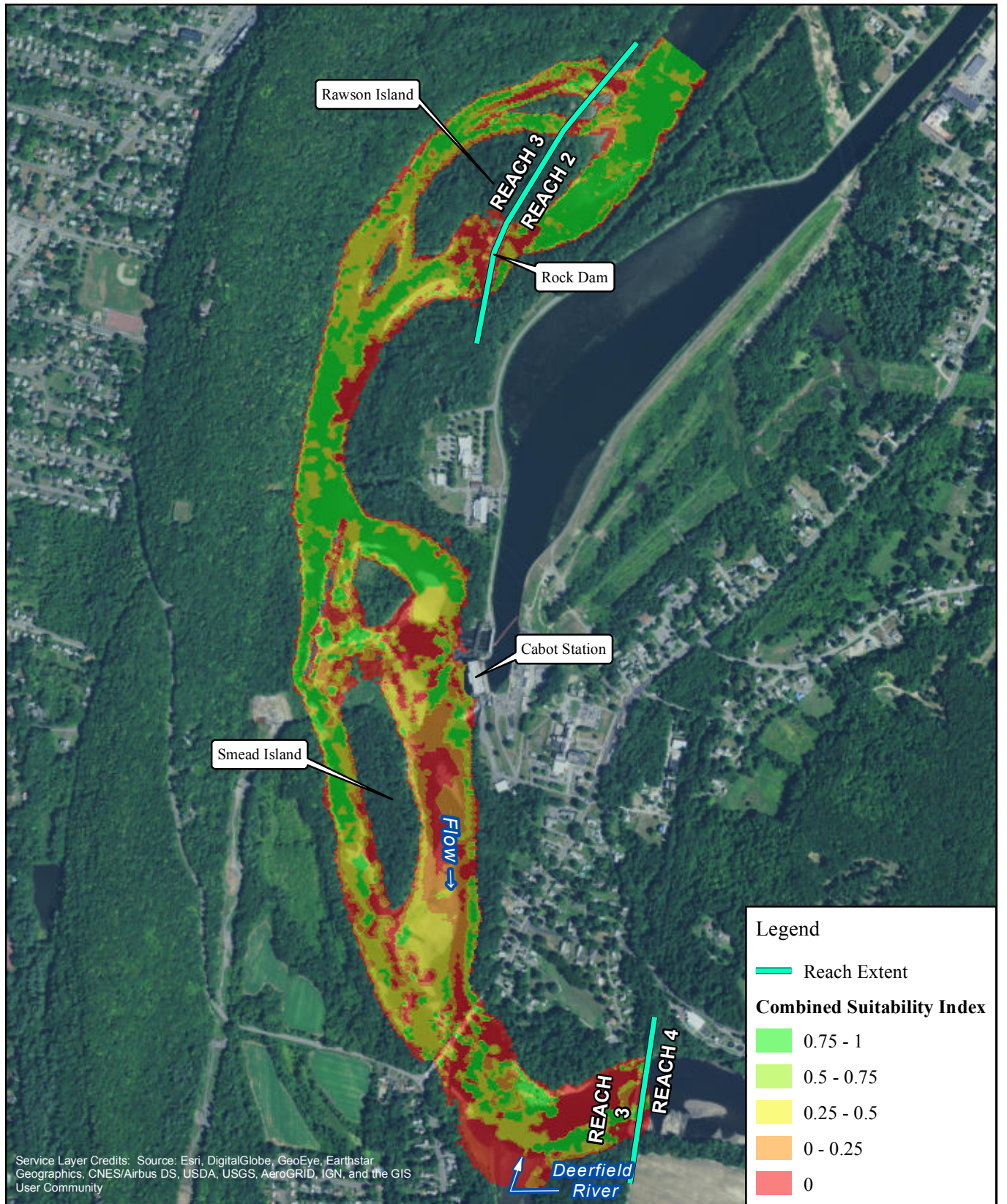
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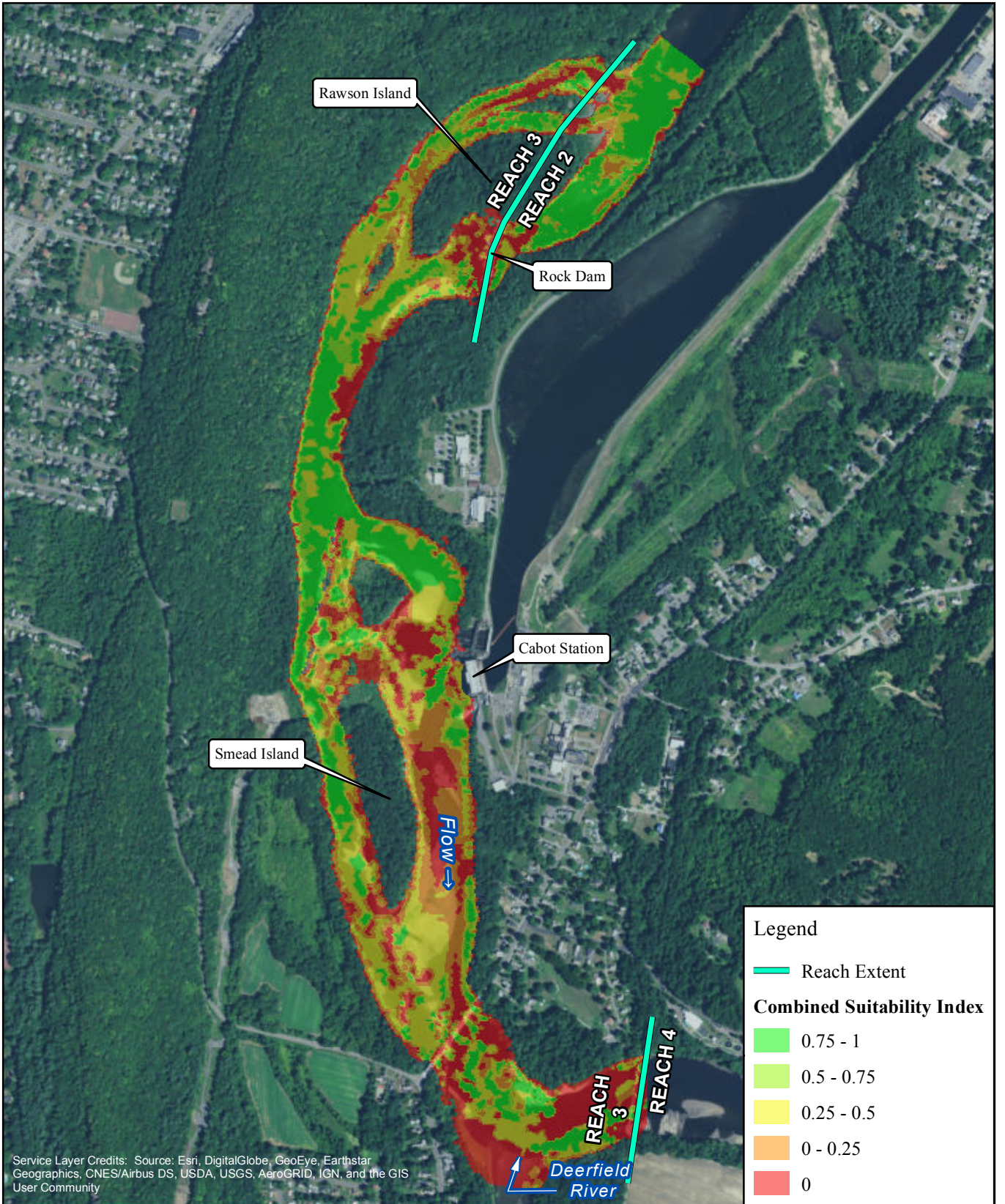
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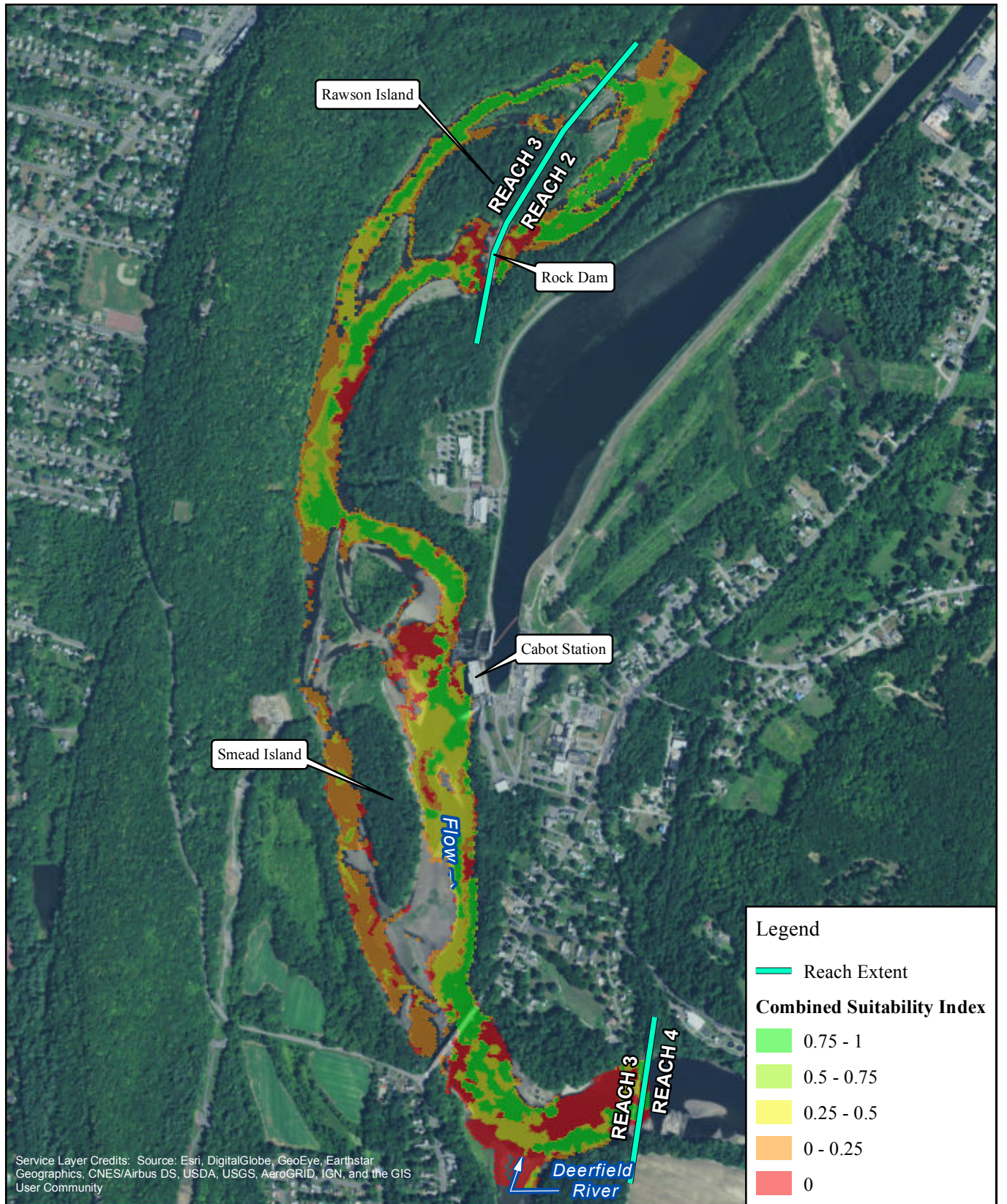
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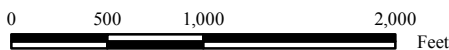
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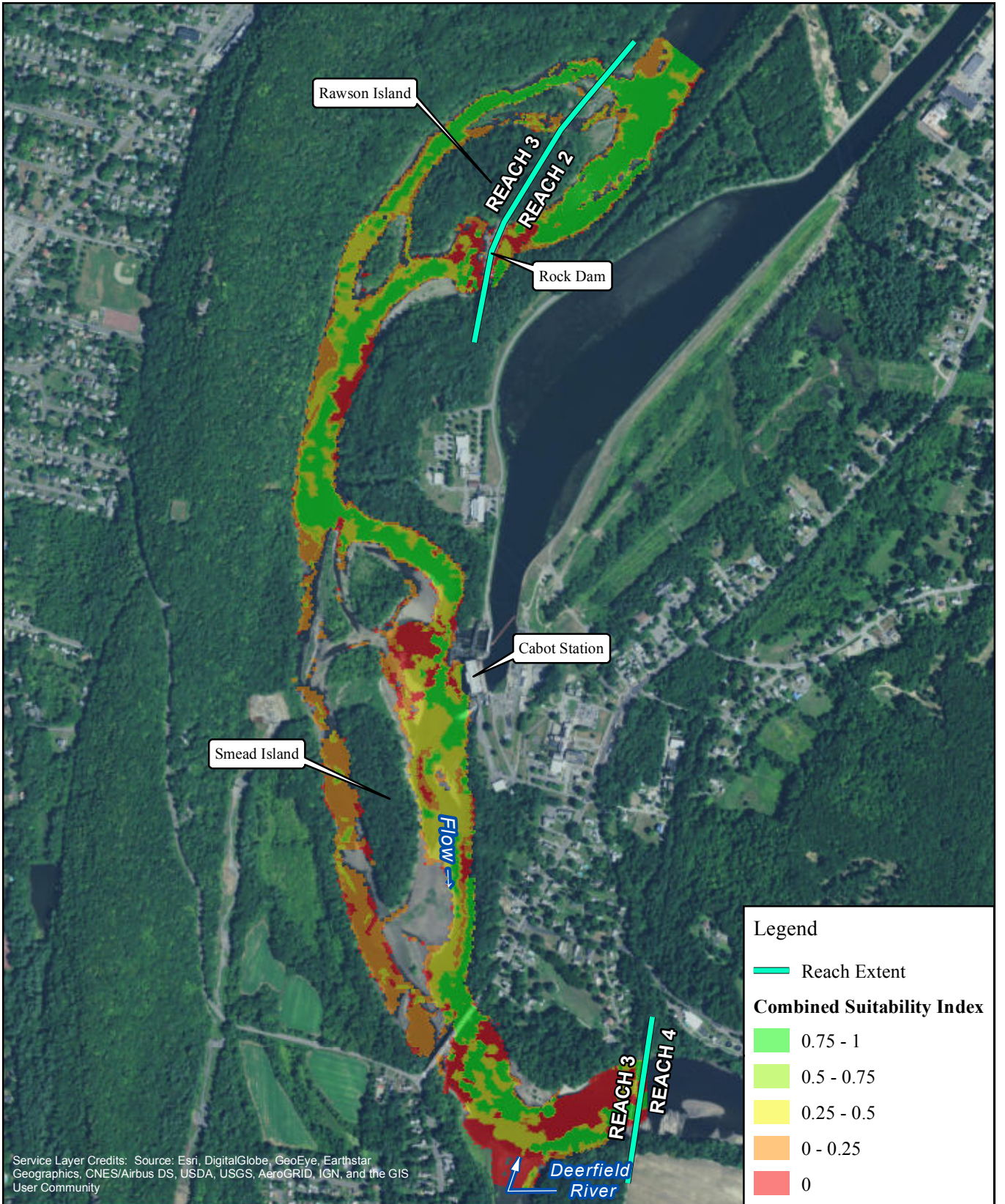
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**Shortnose Sturgeon-Egg-Embryo**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs



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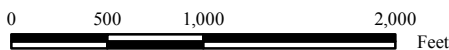


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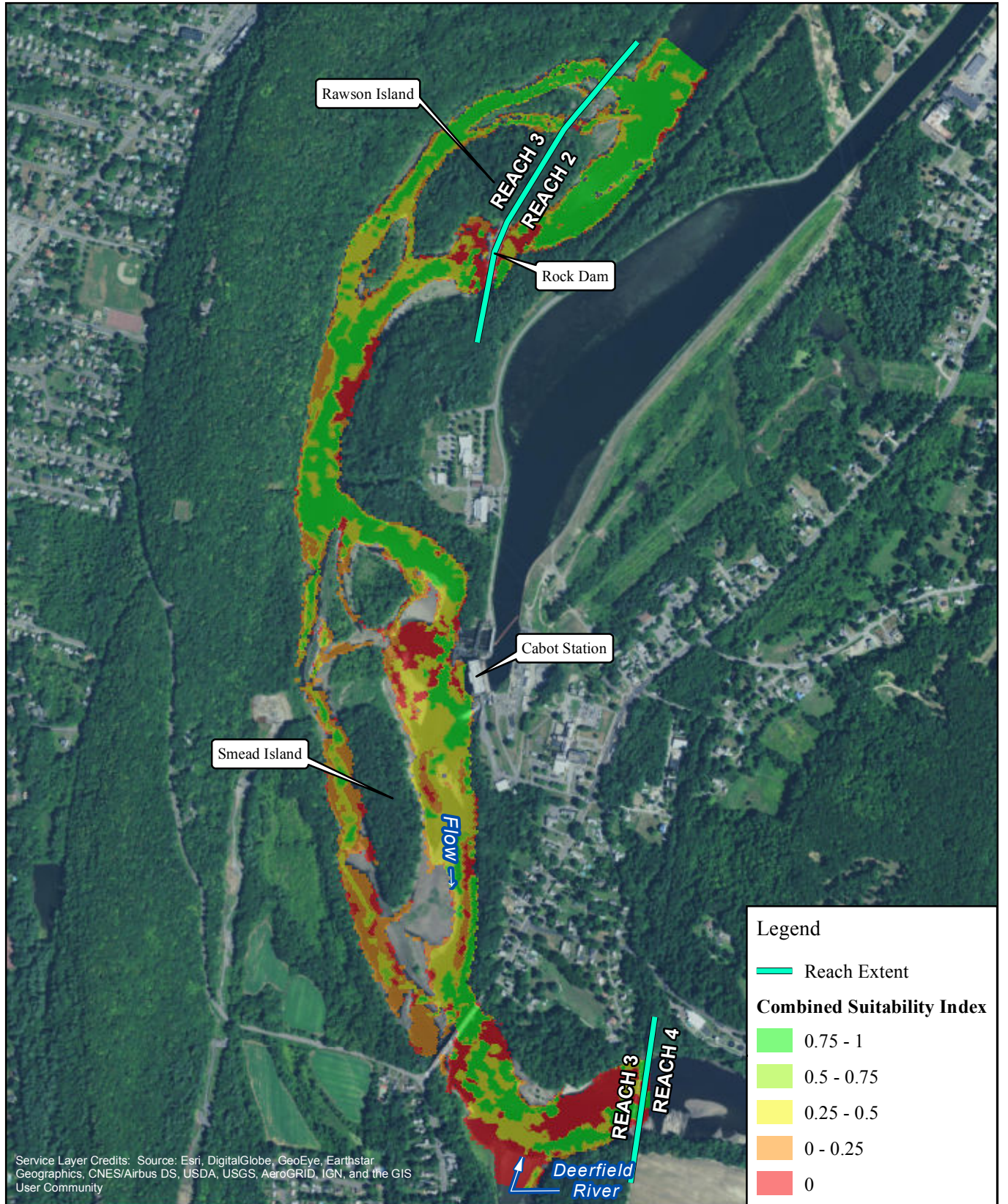
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Shortnose Sturgeon-Egg-Embryo  
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 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs



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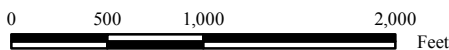


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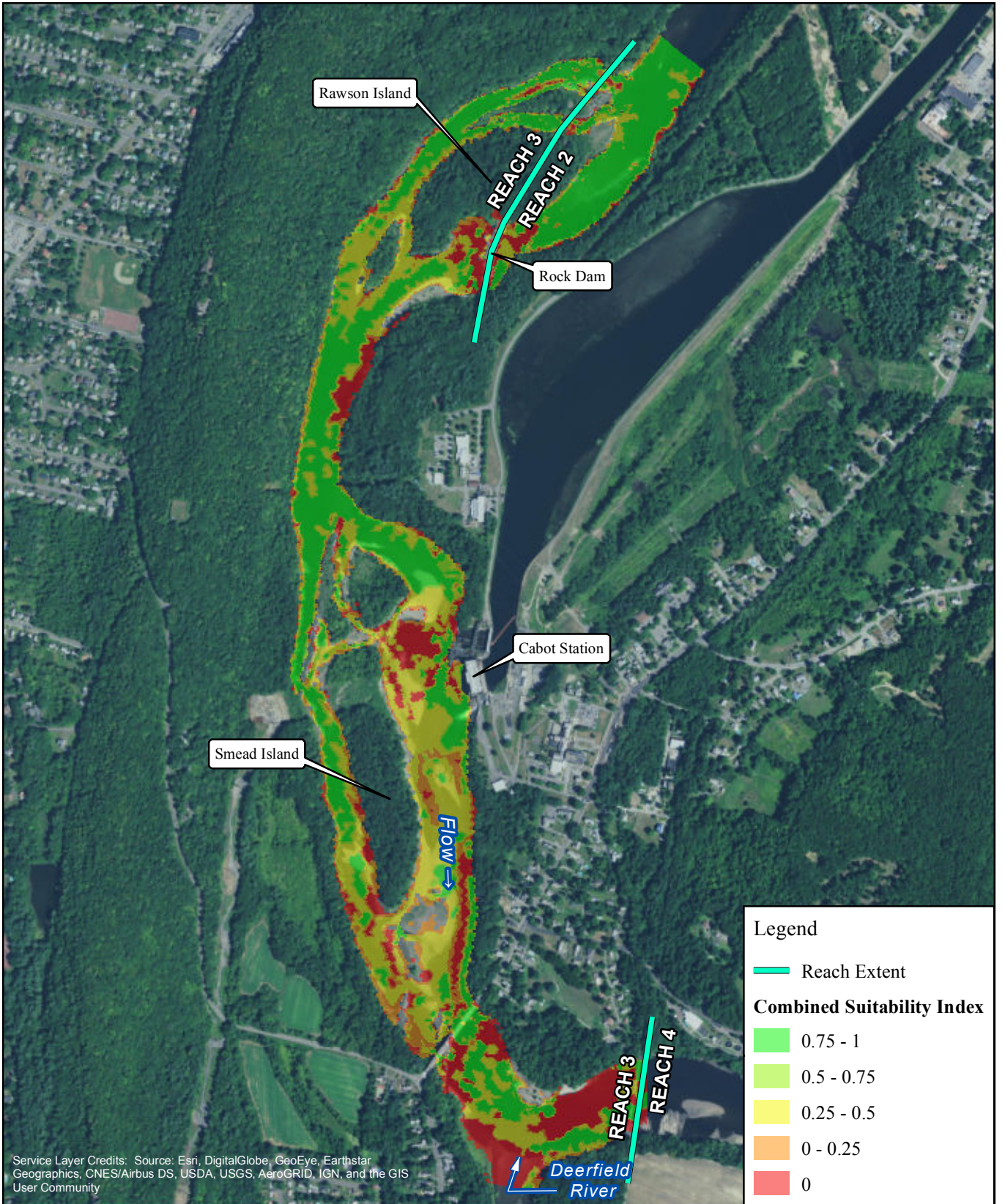
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Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs



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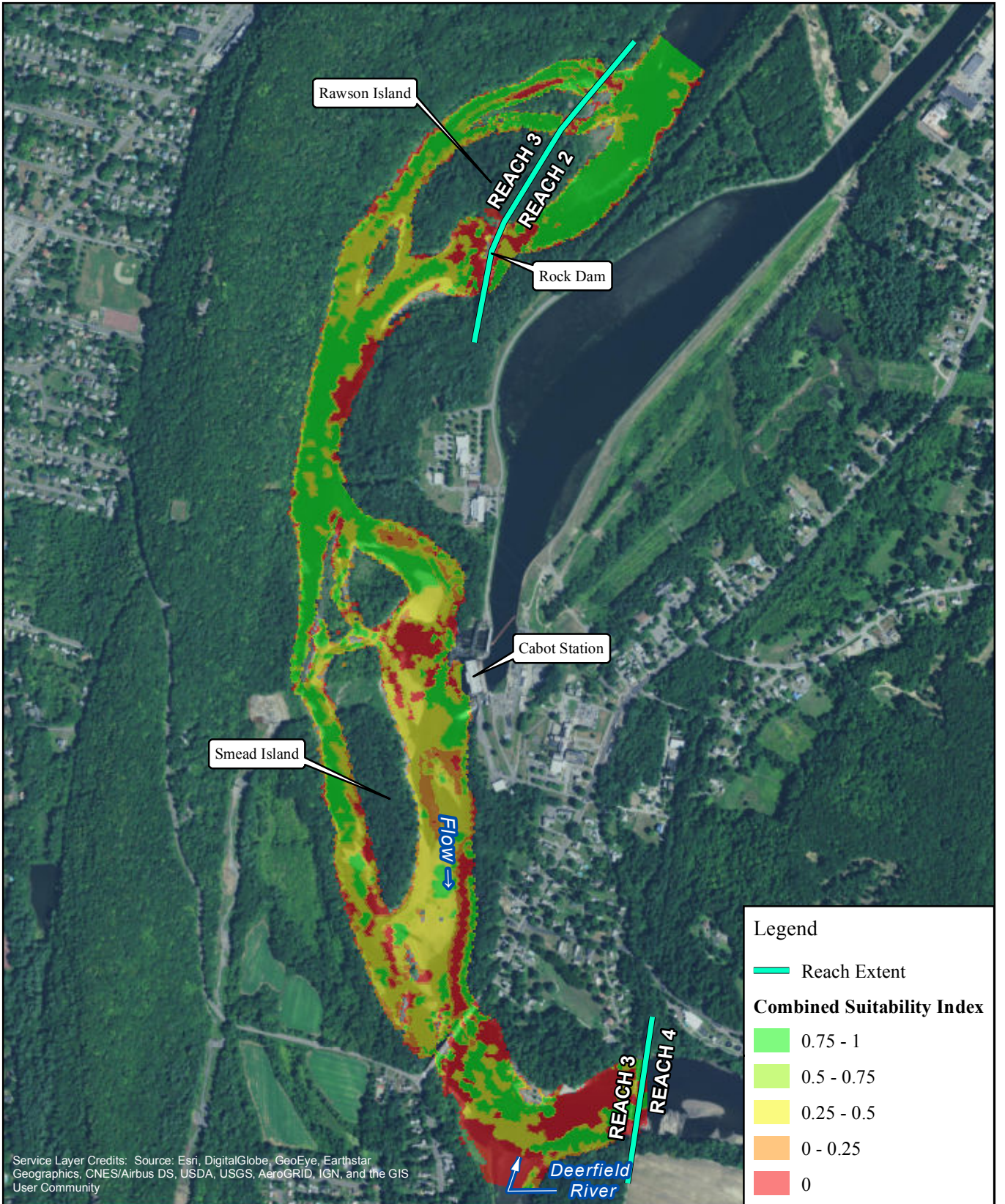
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 3000 cfs  
 Deerfield Flow: 200 cfs

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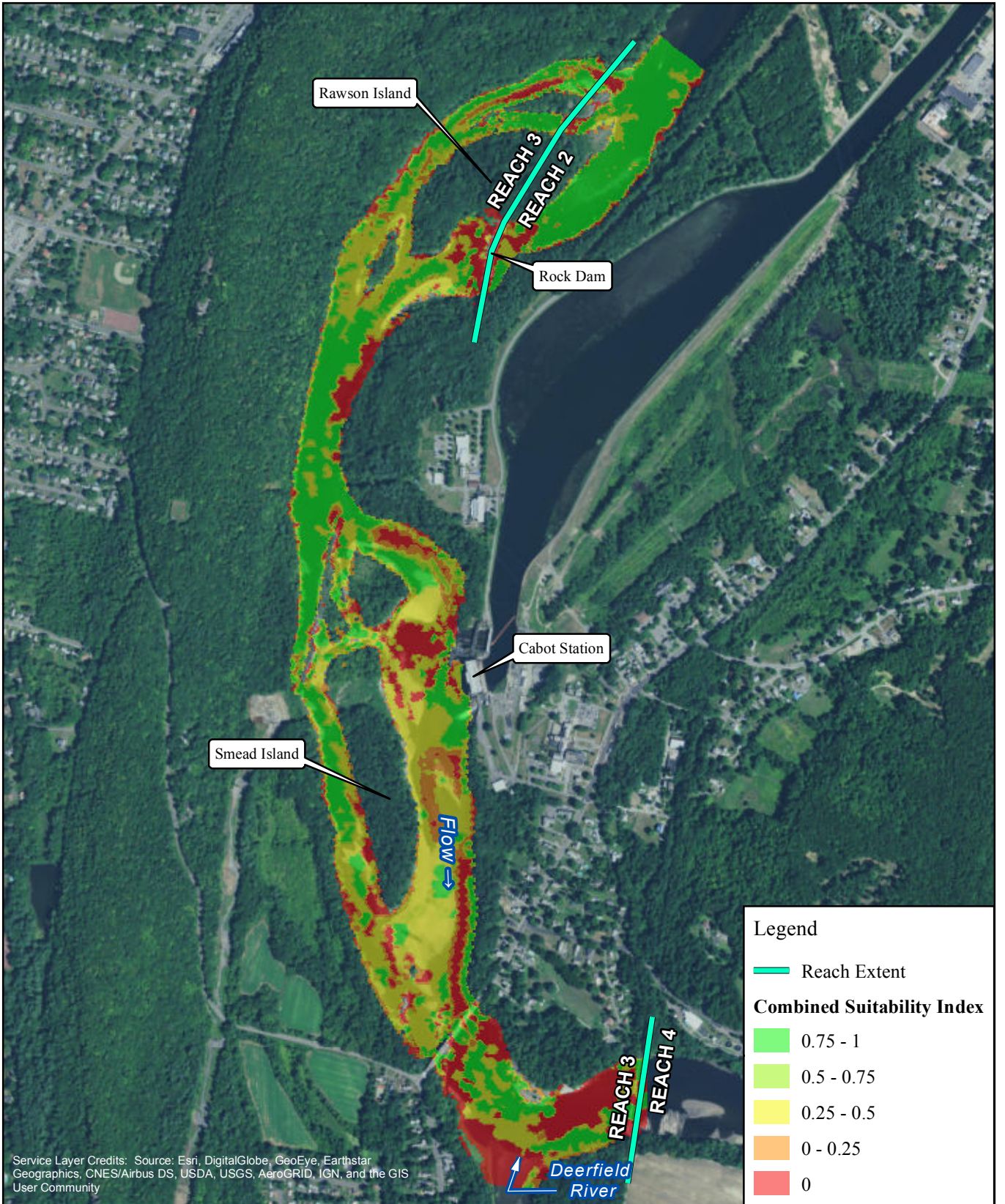
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

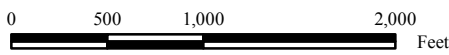
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**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0



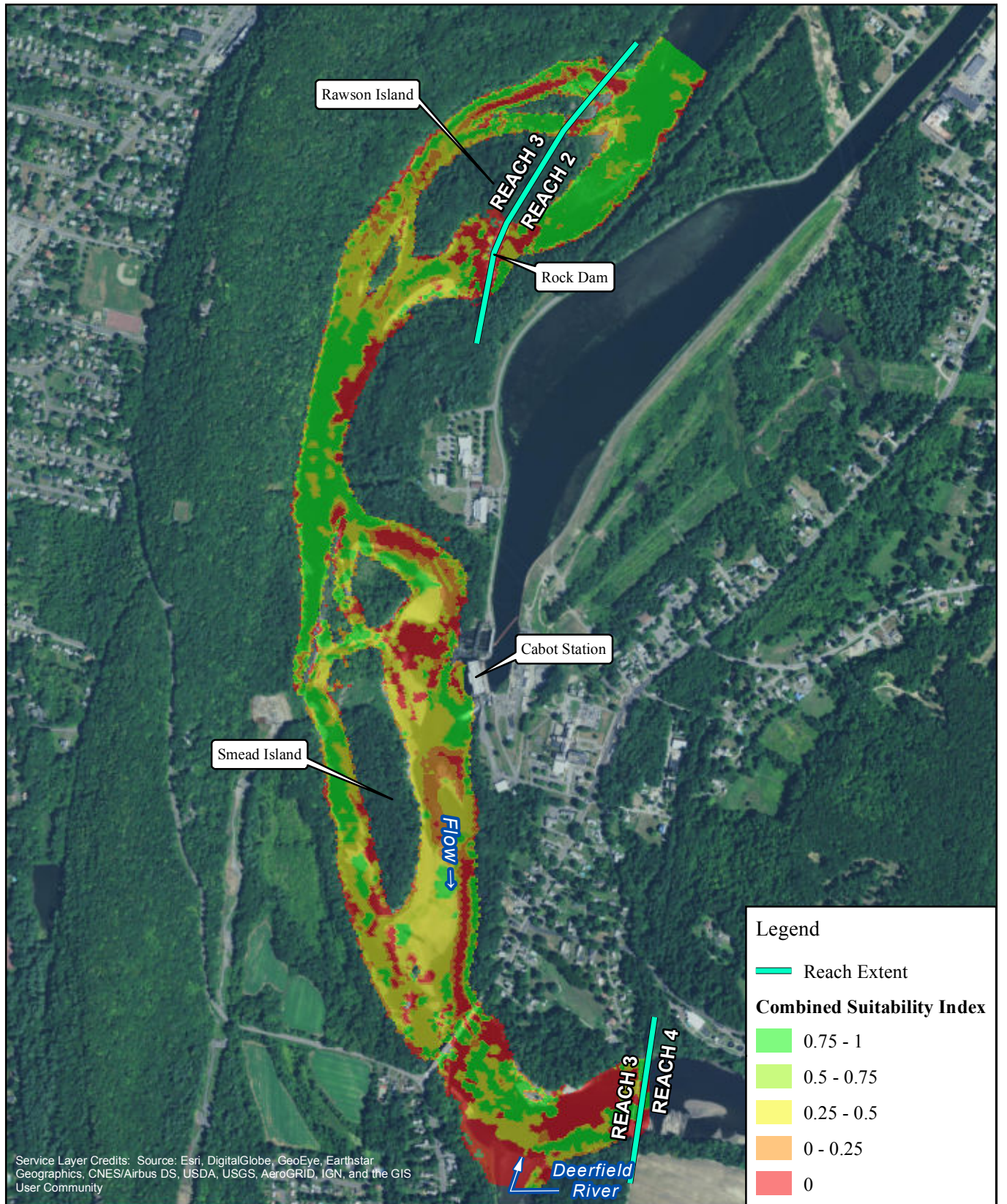
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 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Egg-Embryo**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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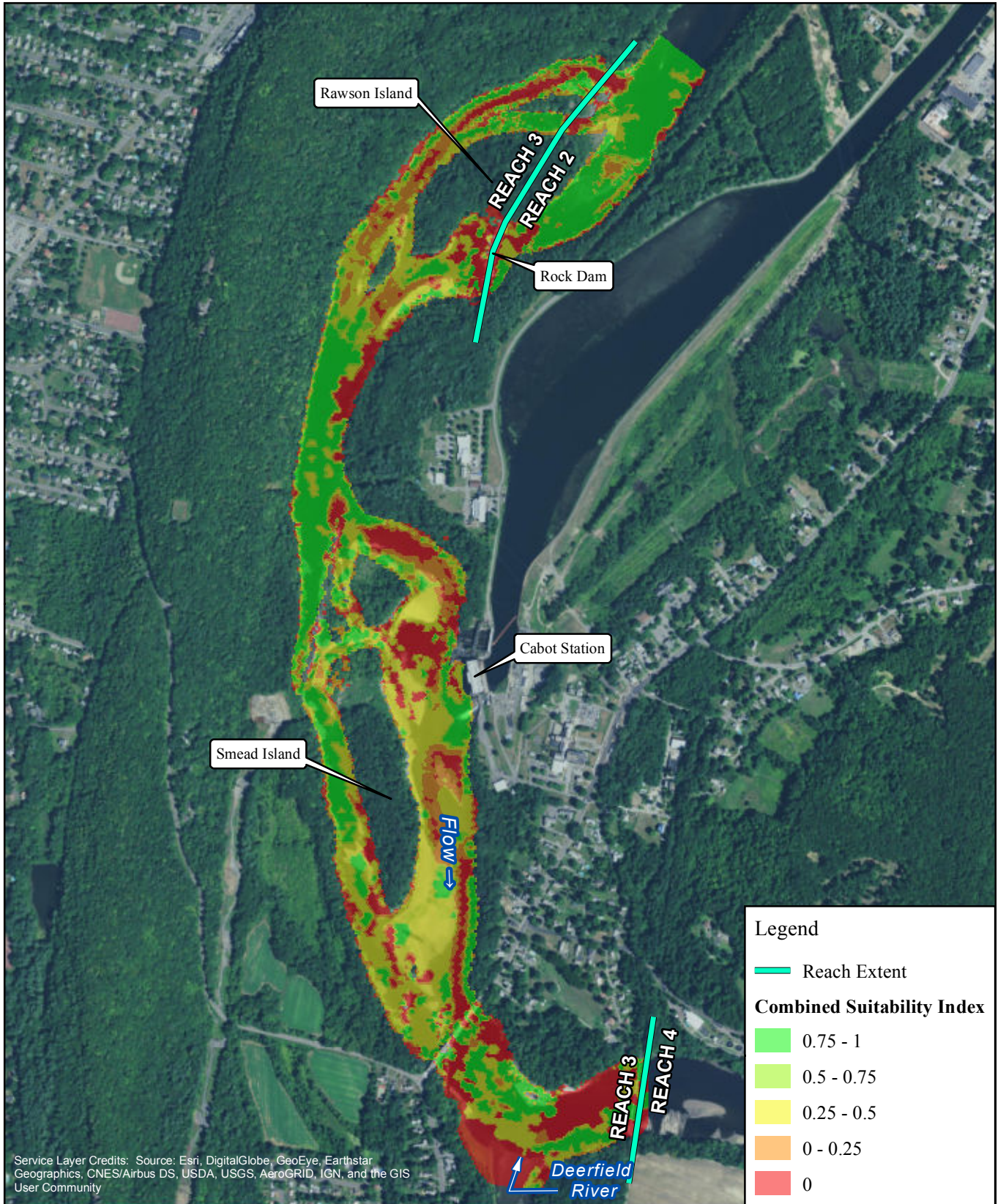
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1





Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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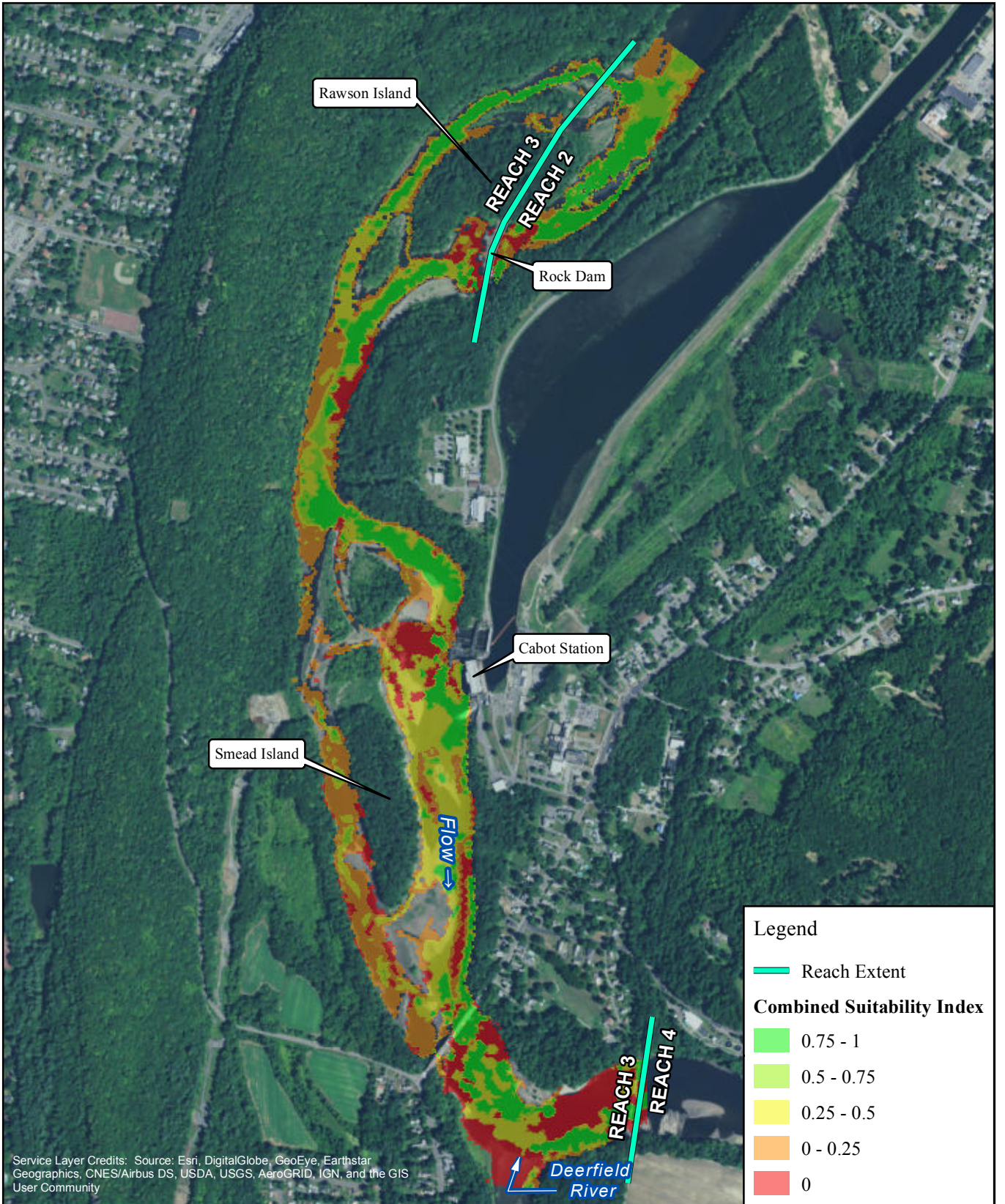
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

**Shortnose Sturgeon-Egg-Embryo**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

0      500      1,000      2,000  
 Feet

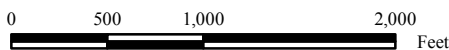
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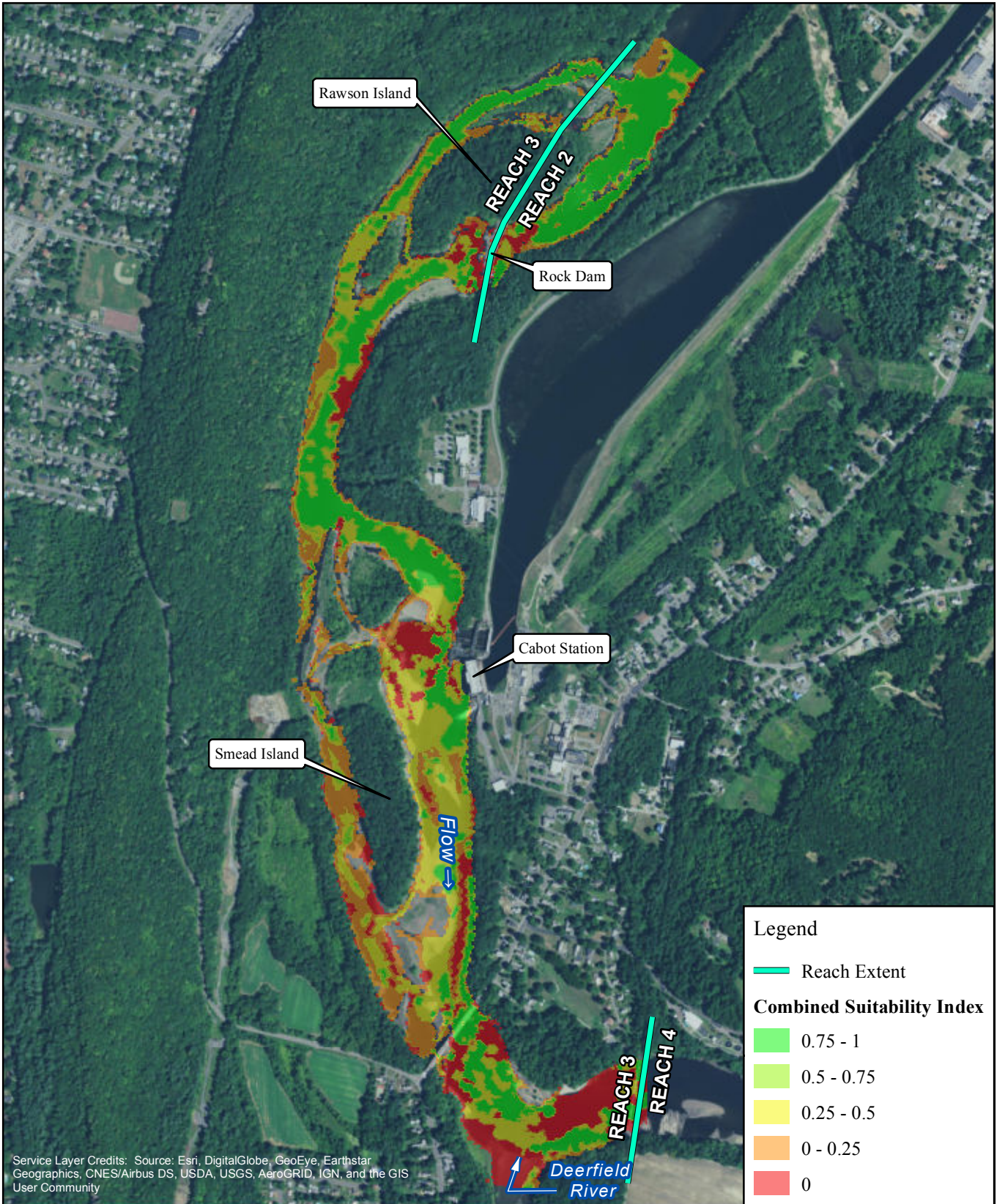
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs



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**FIRSTLIGHT HYDRO GENERATING COMPANY**  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

Shortnose Sturgeon-Egg-Embryo

Cabot Flow: 4500 cfs

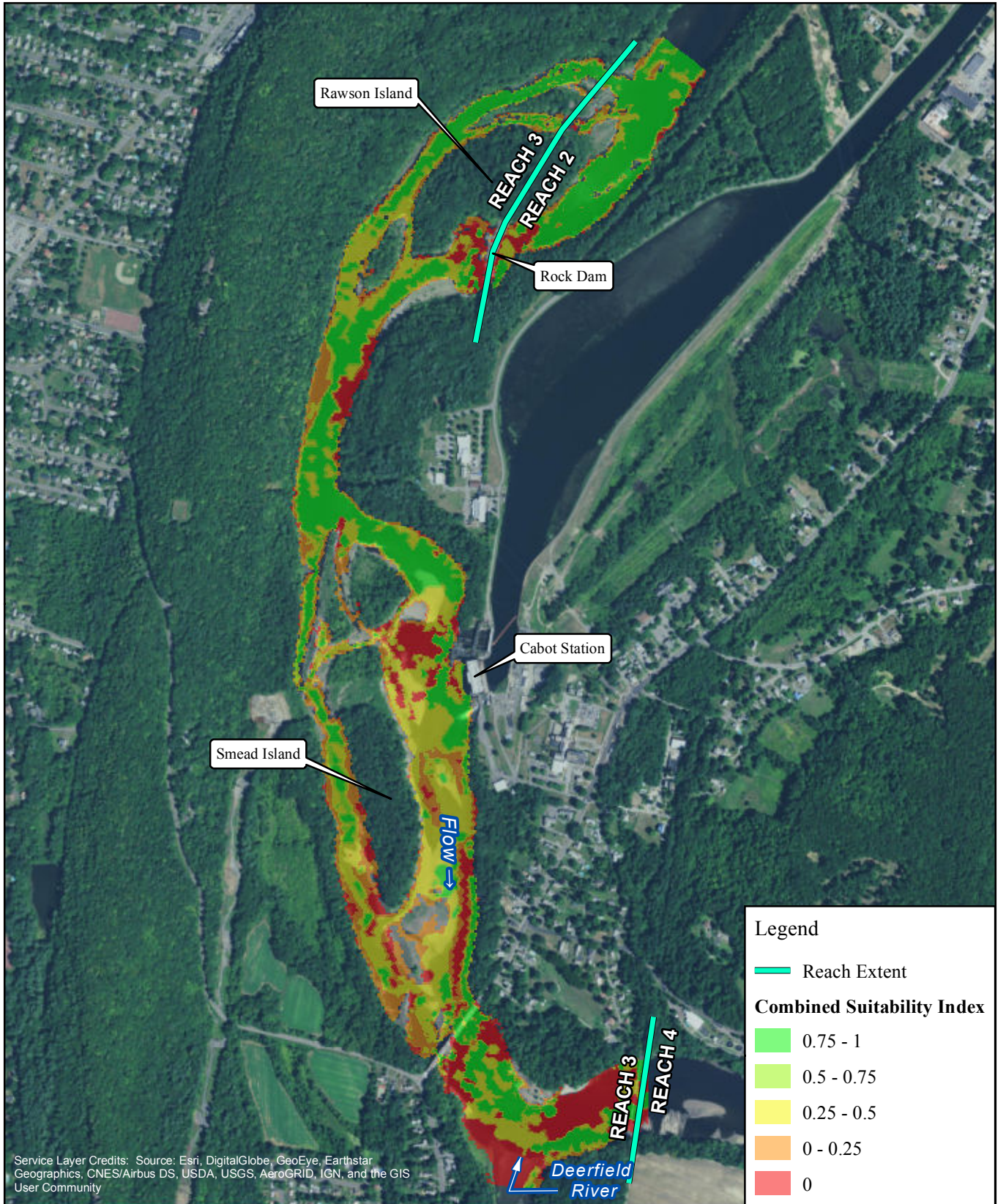
Bypass Flow: 500 cfs

Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet

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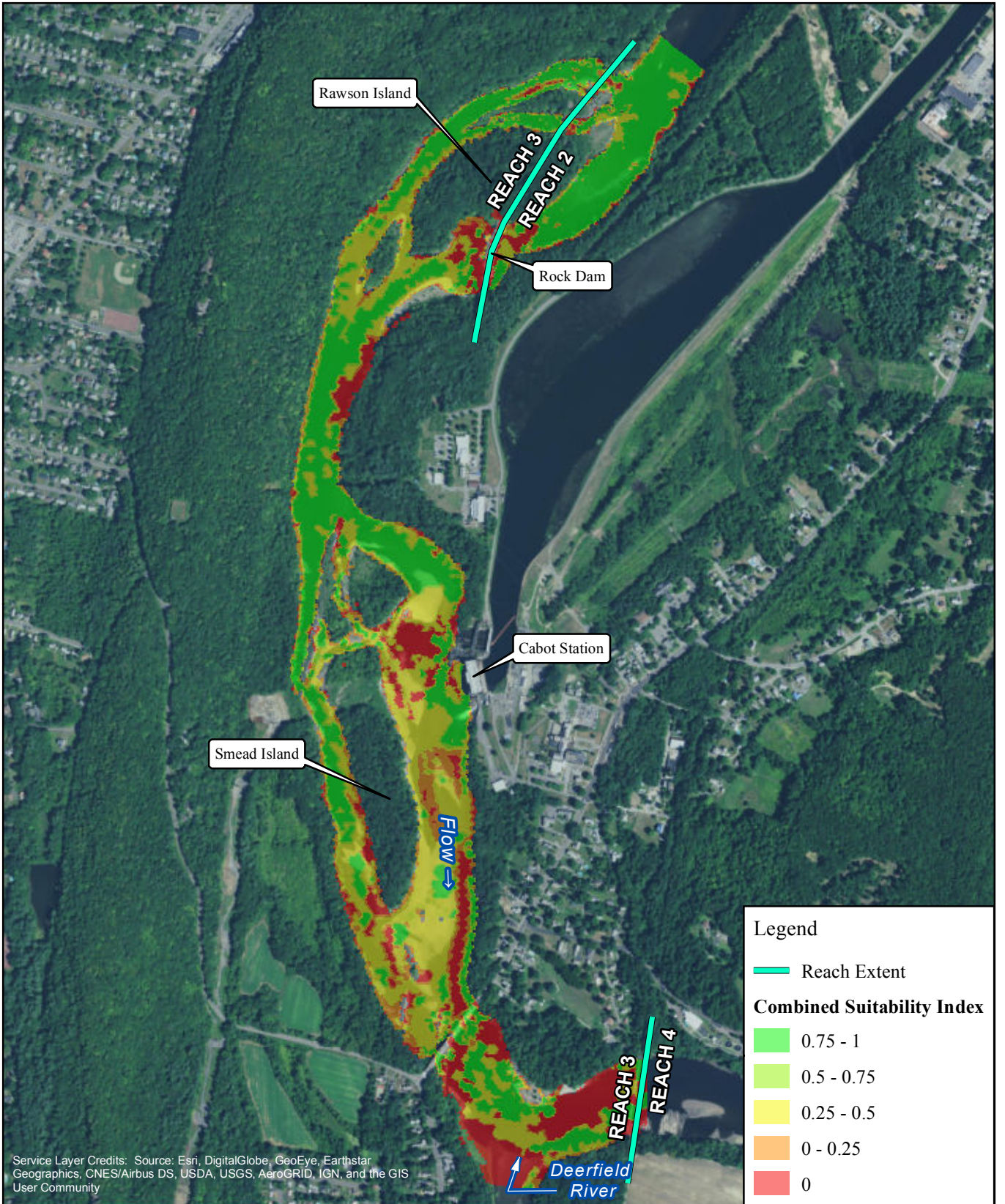
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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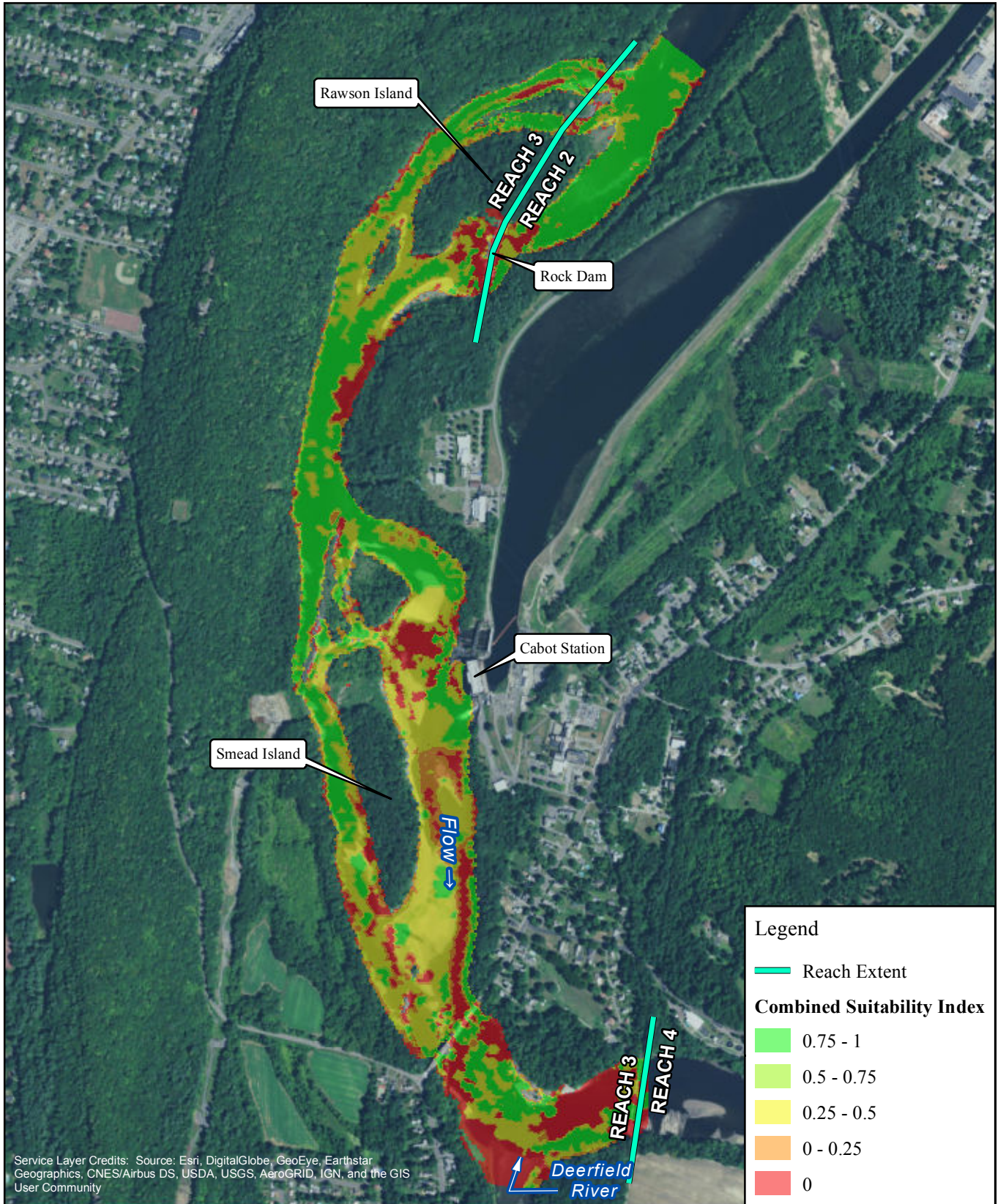
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 3000 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

- Reach Extent

**Combined Suitability Index**

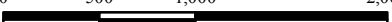
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- 0.25 - 0.5
- 0 - 0.25
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**FIRSTLIGHT HYDRO GENERATING COMPANY**  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
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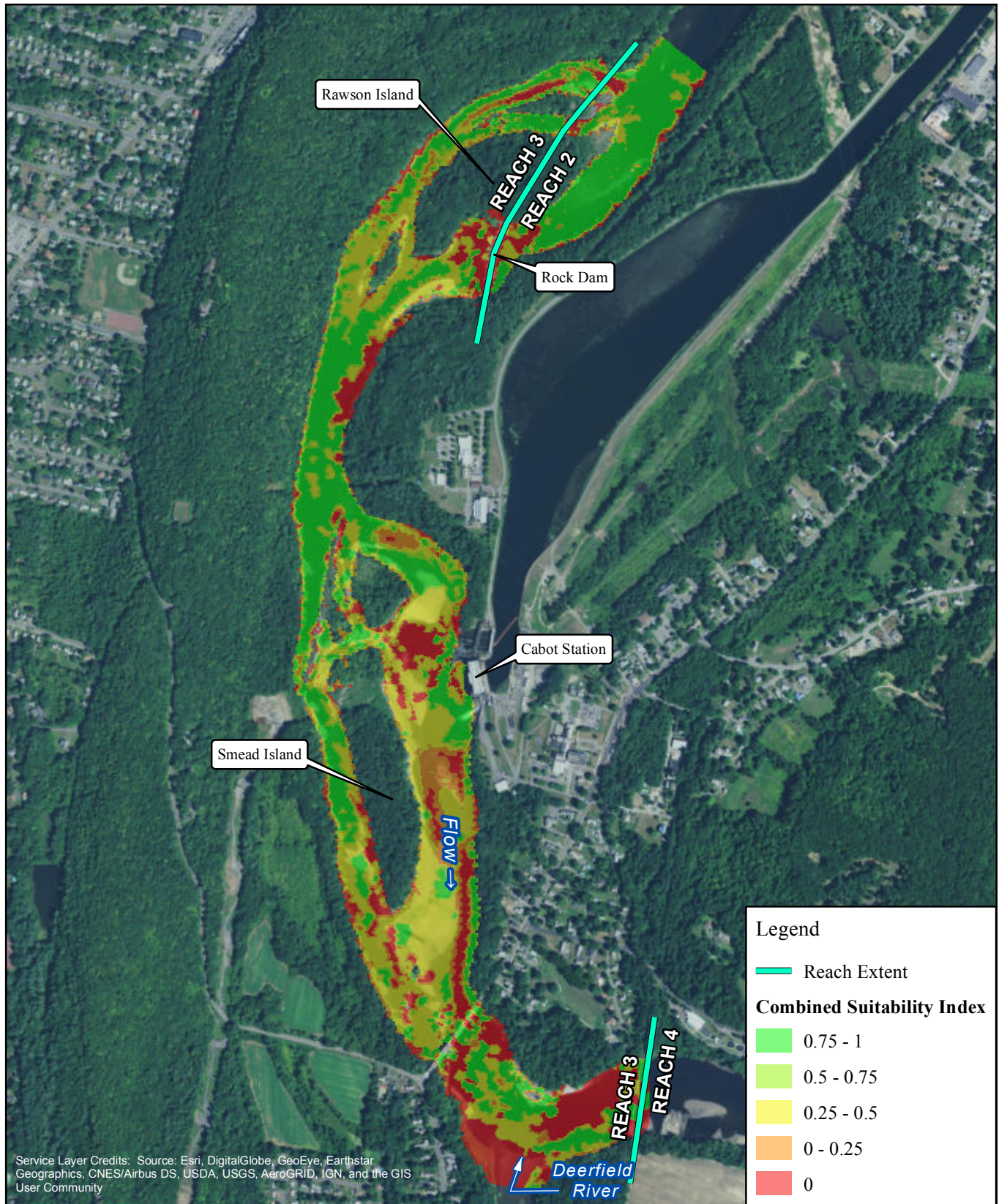
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 Cabot Flow: 4500 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet



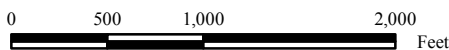
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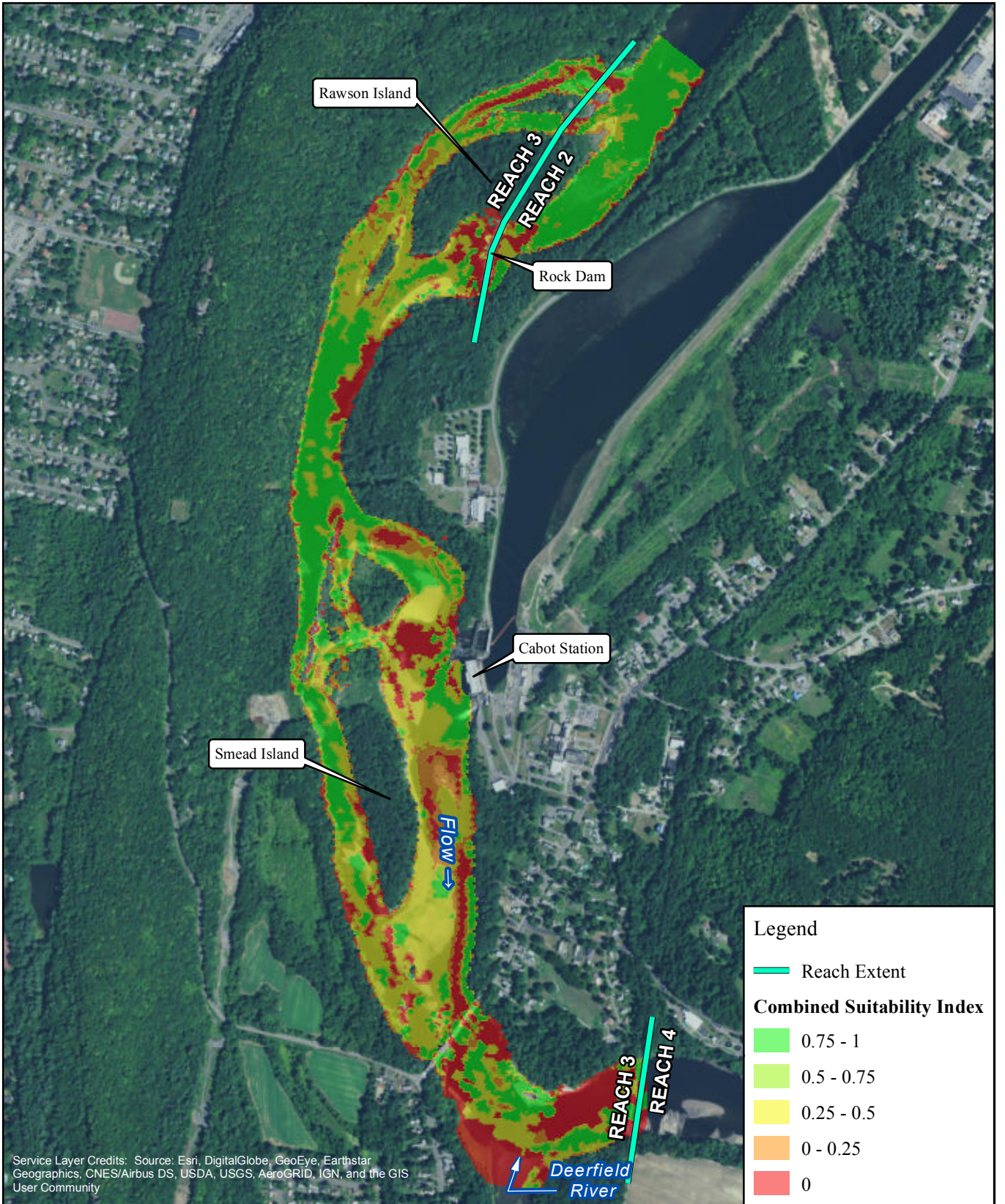
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs



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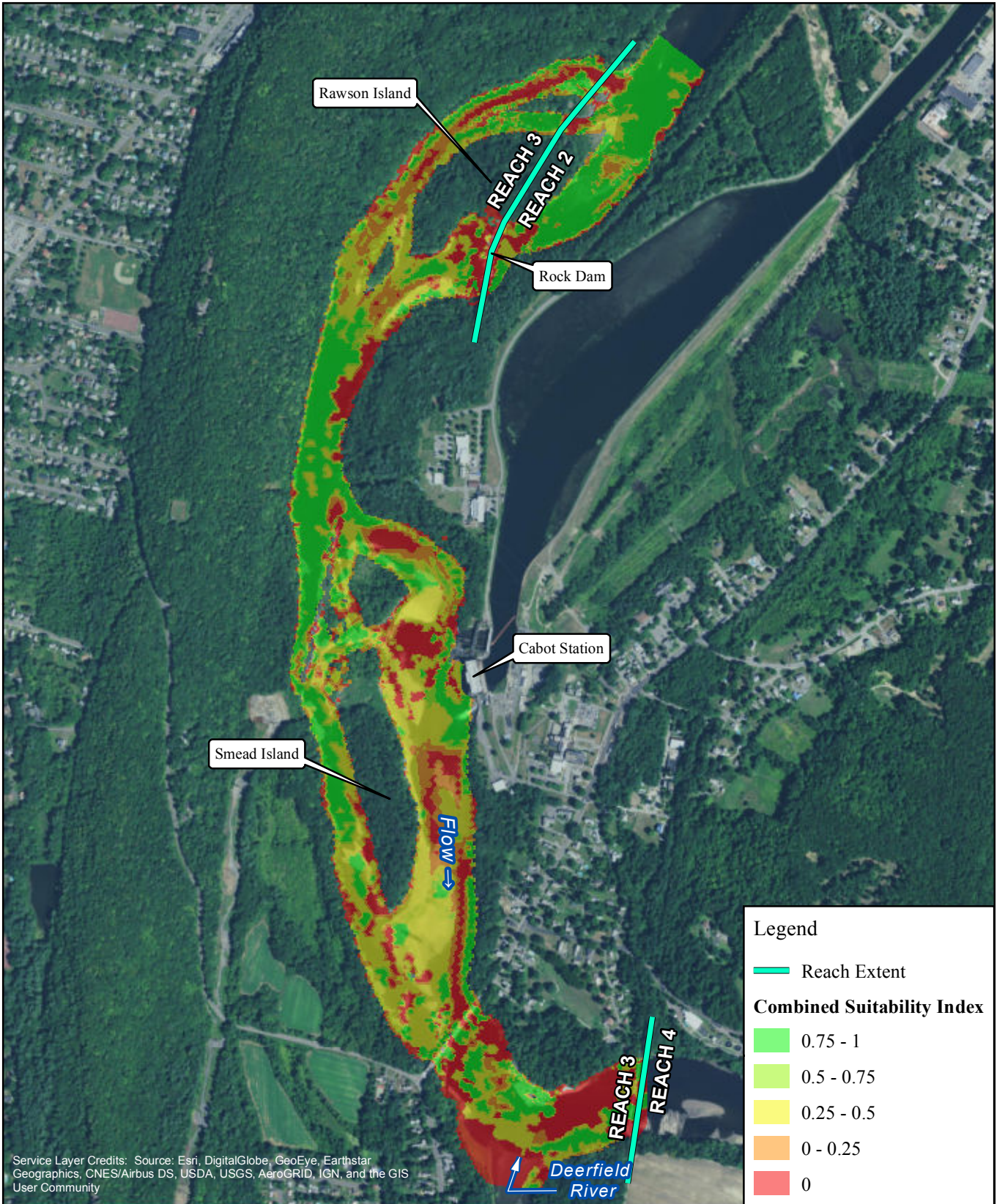
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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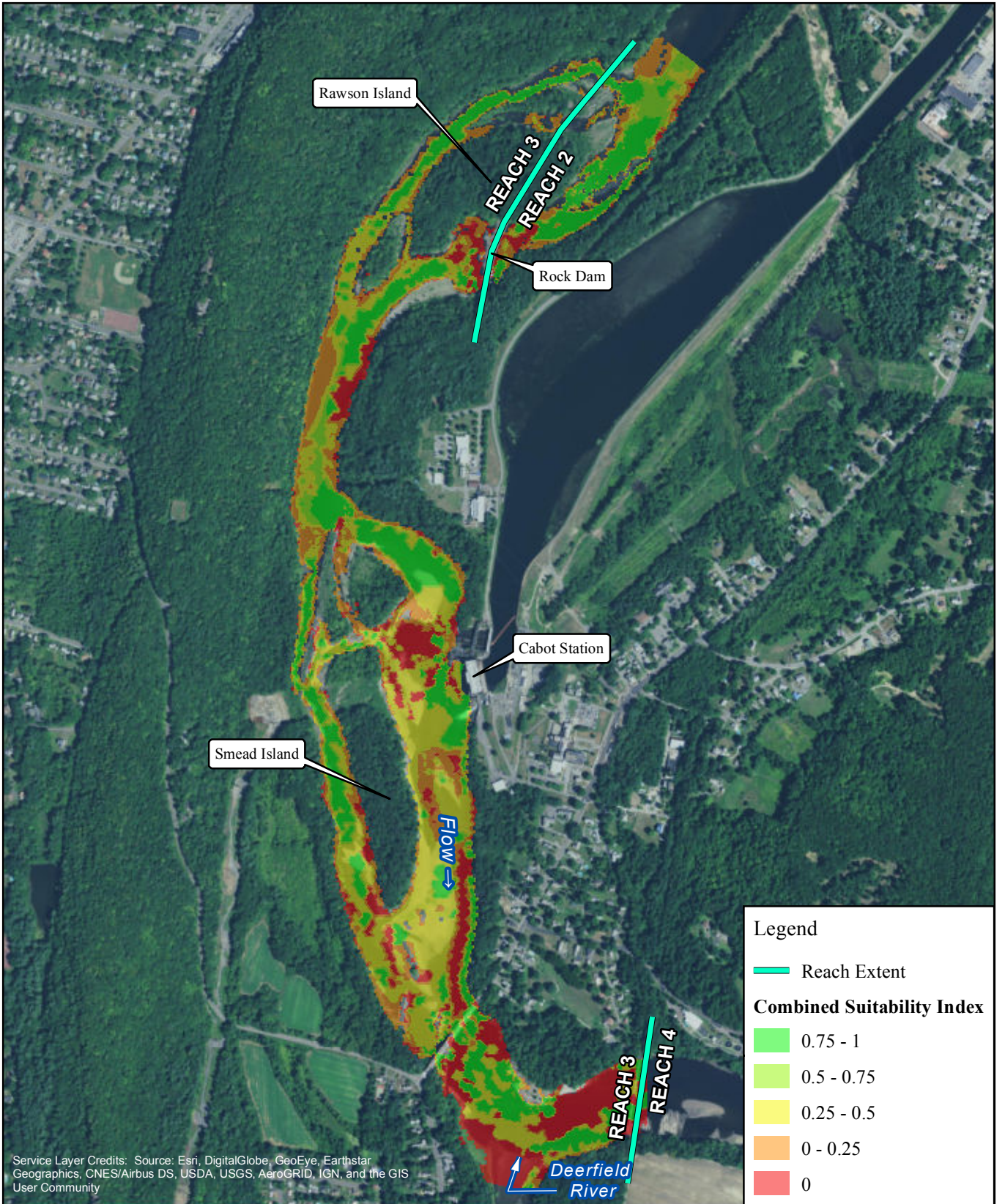
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

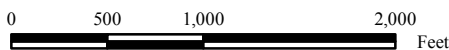
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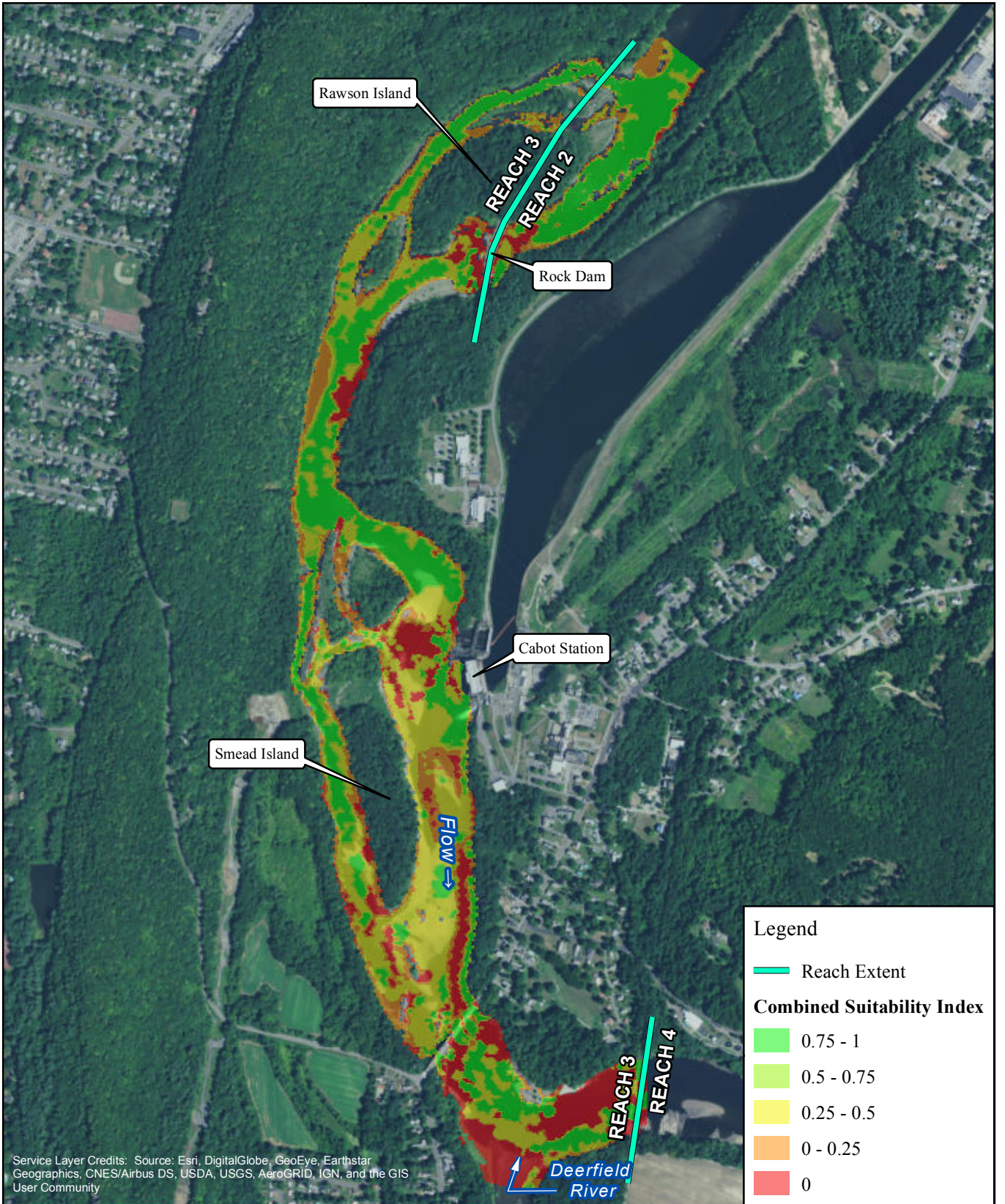
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs



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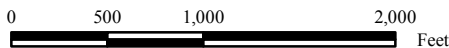


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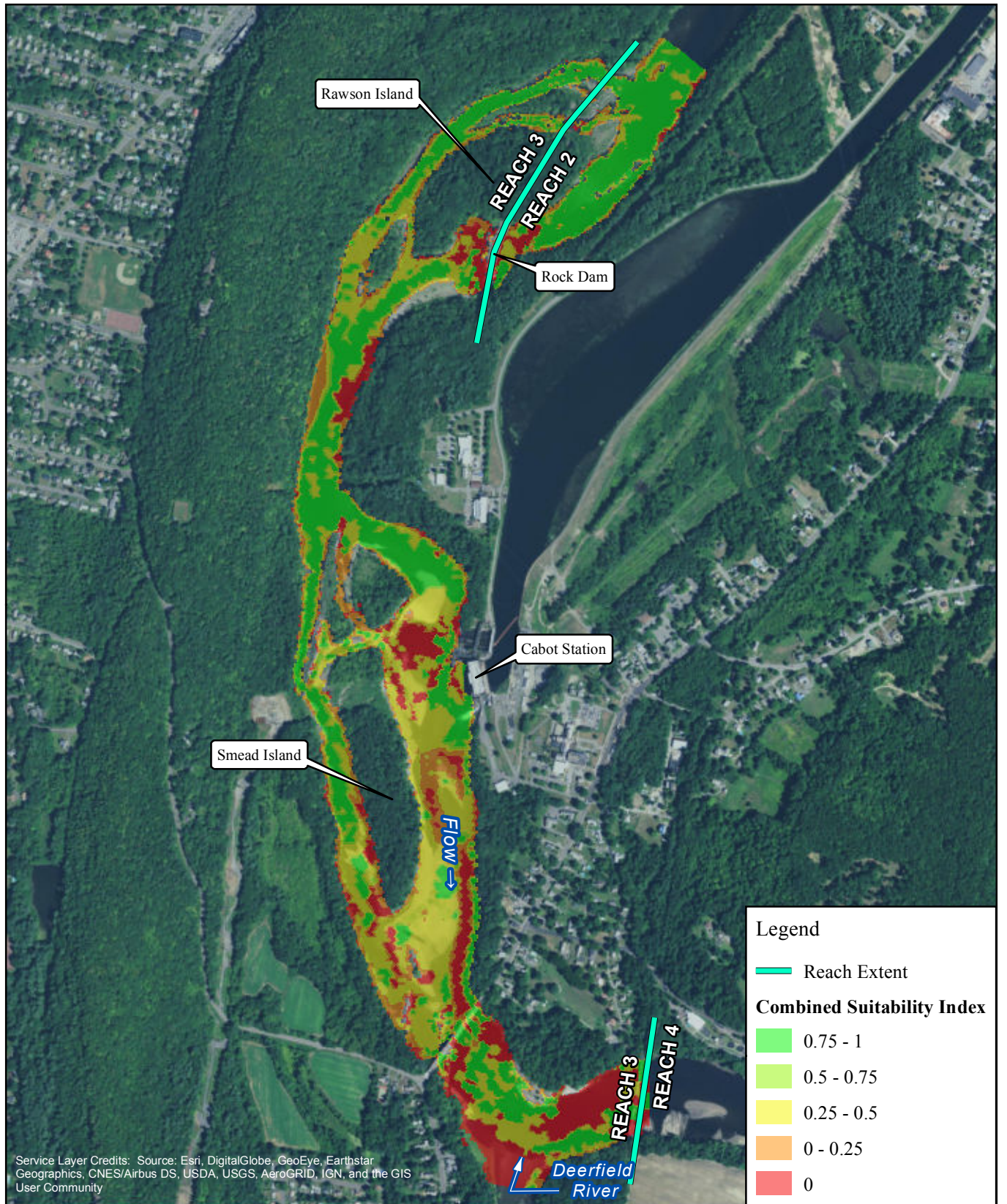
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 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs



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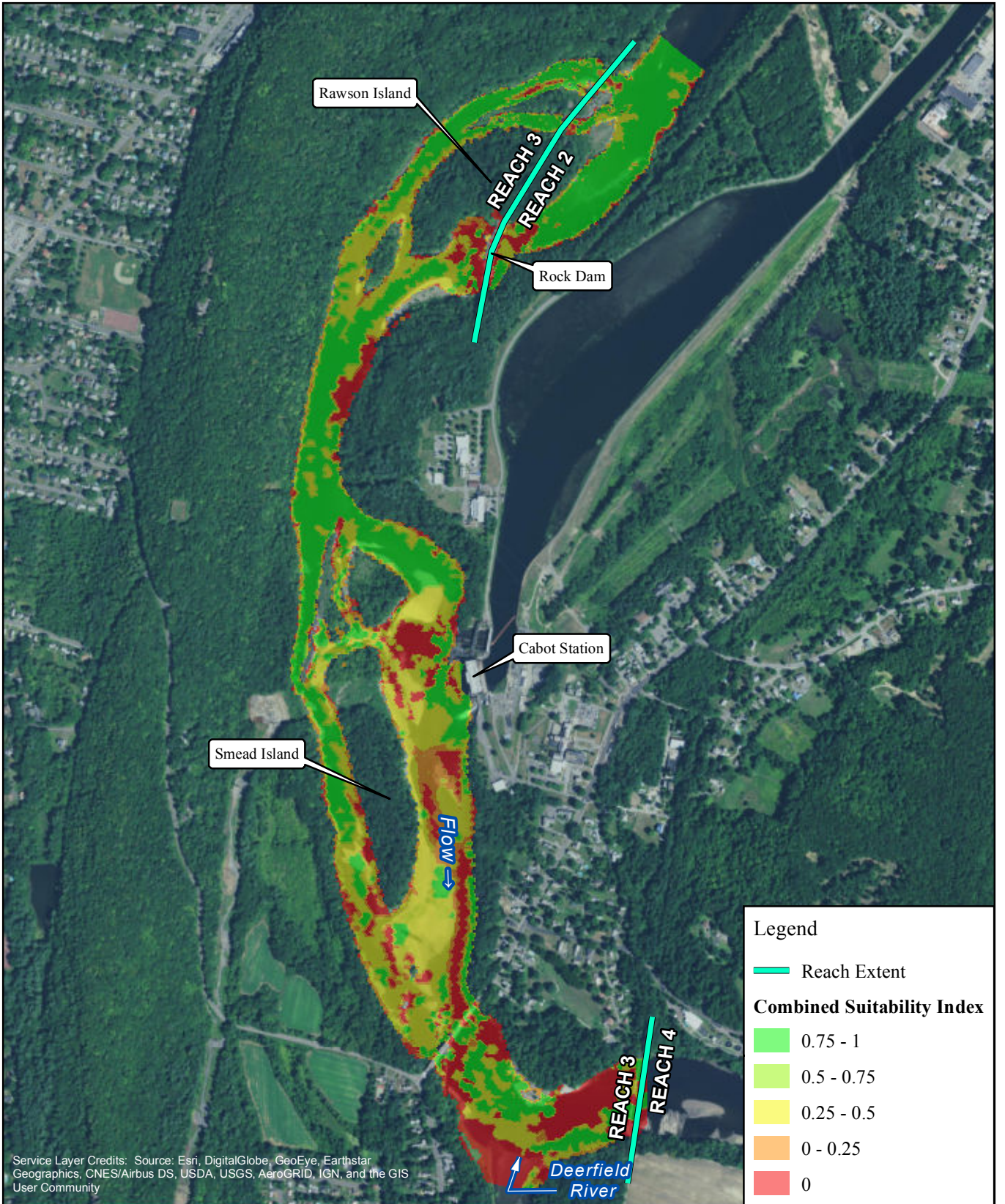
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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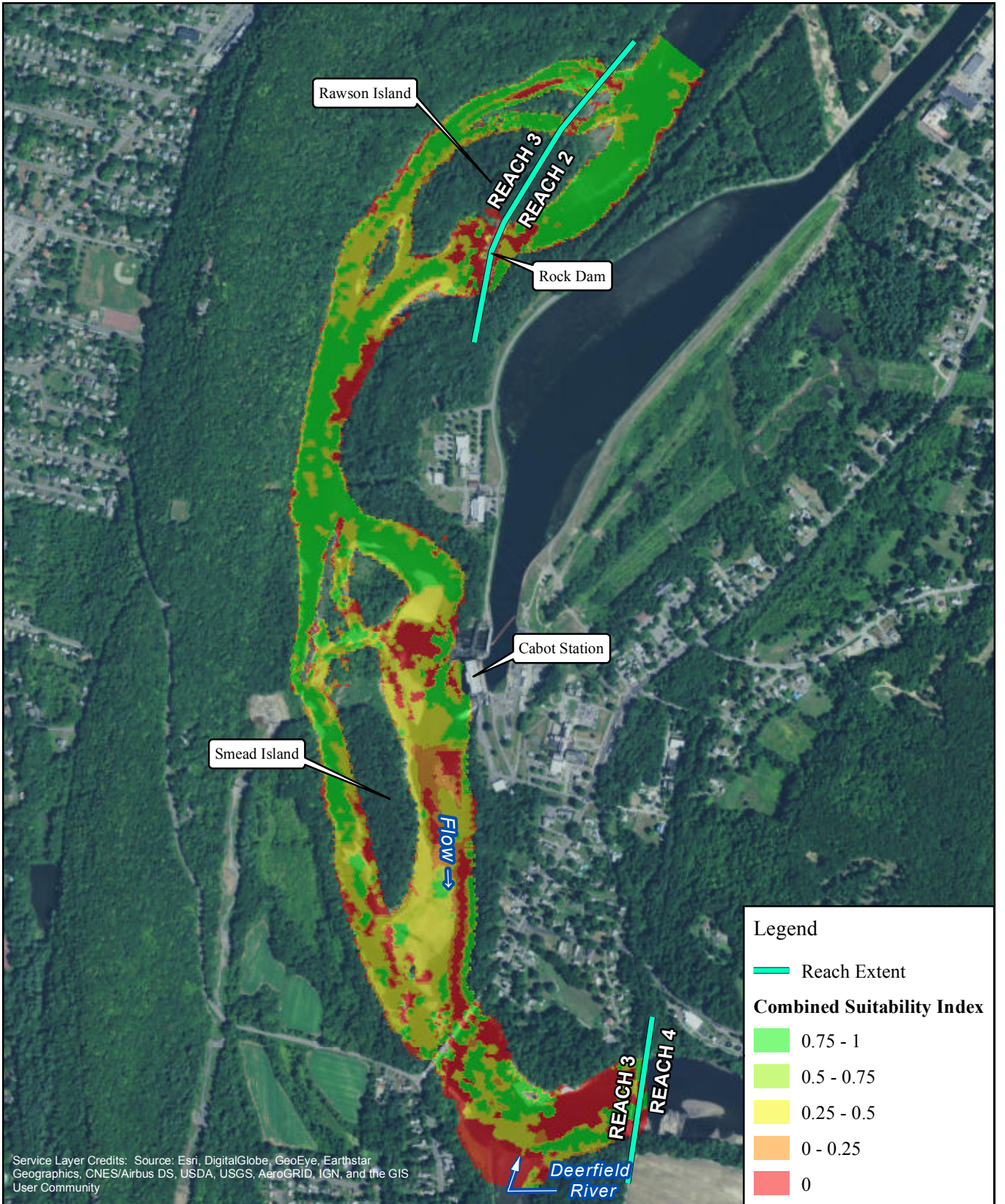
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
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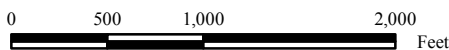
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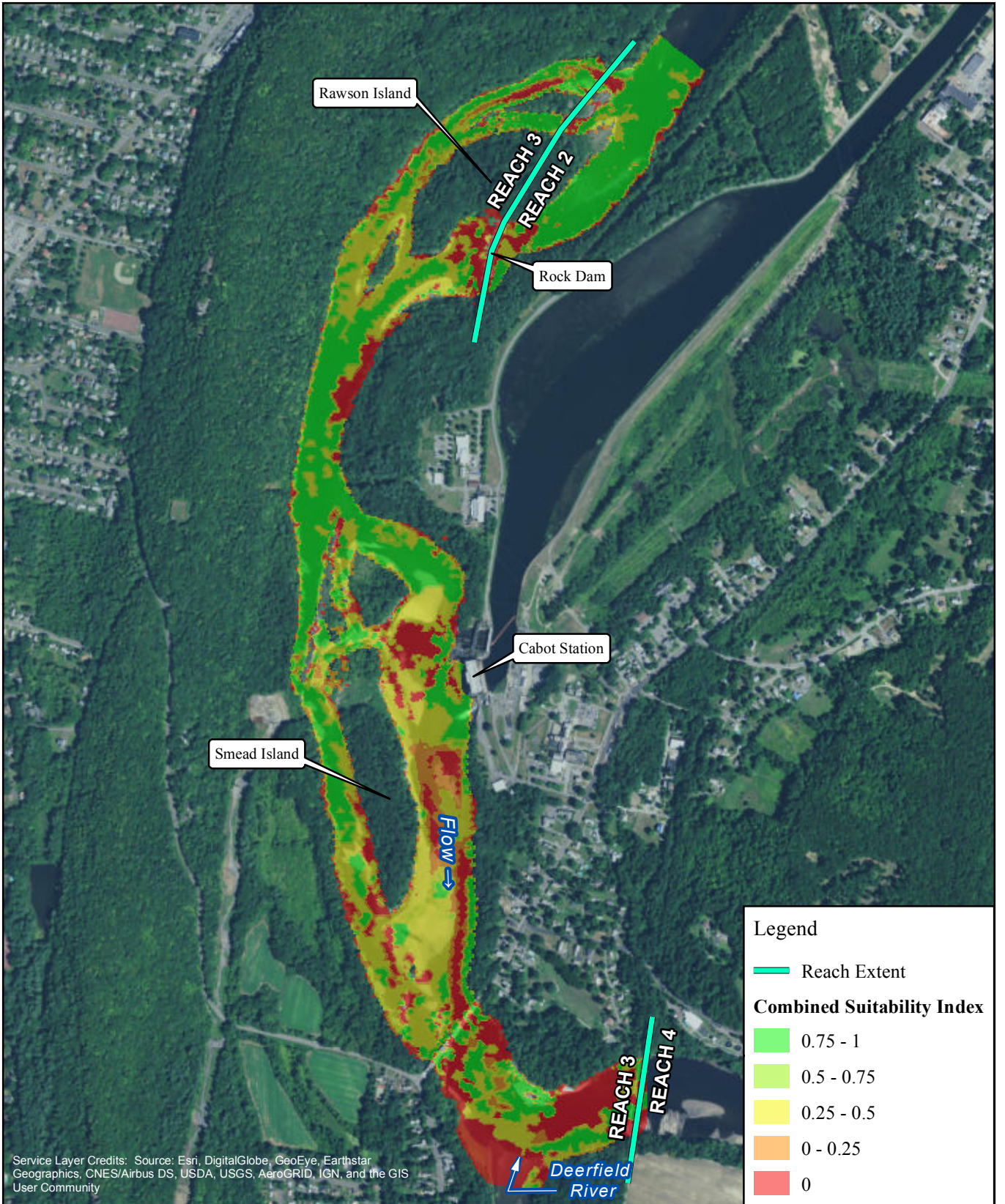
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs



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**Legend**

- Reach Extent

**Combined Suitability Index**

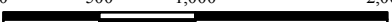
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- 0 - 0.25
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**FIRSTLIGHT HYDRO GENERATING COMPANY**  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

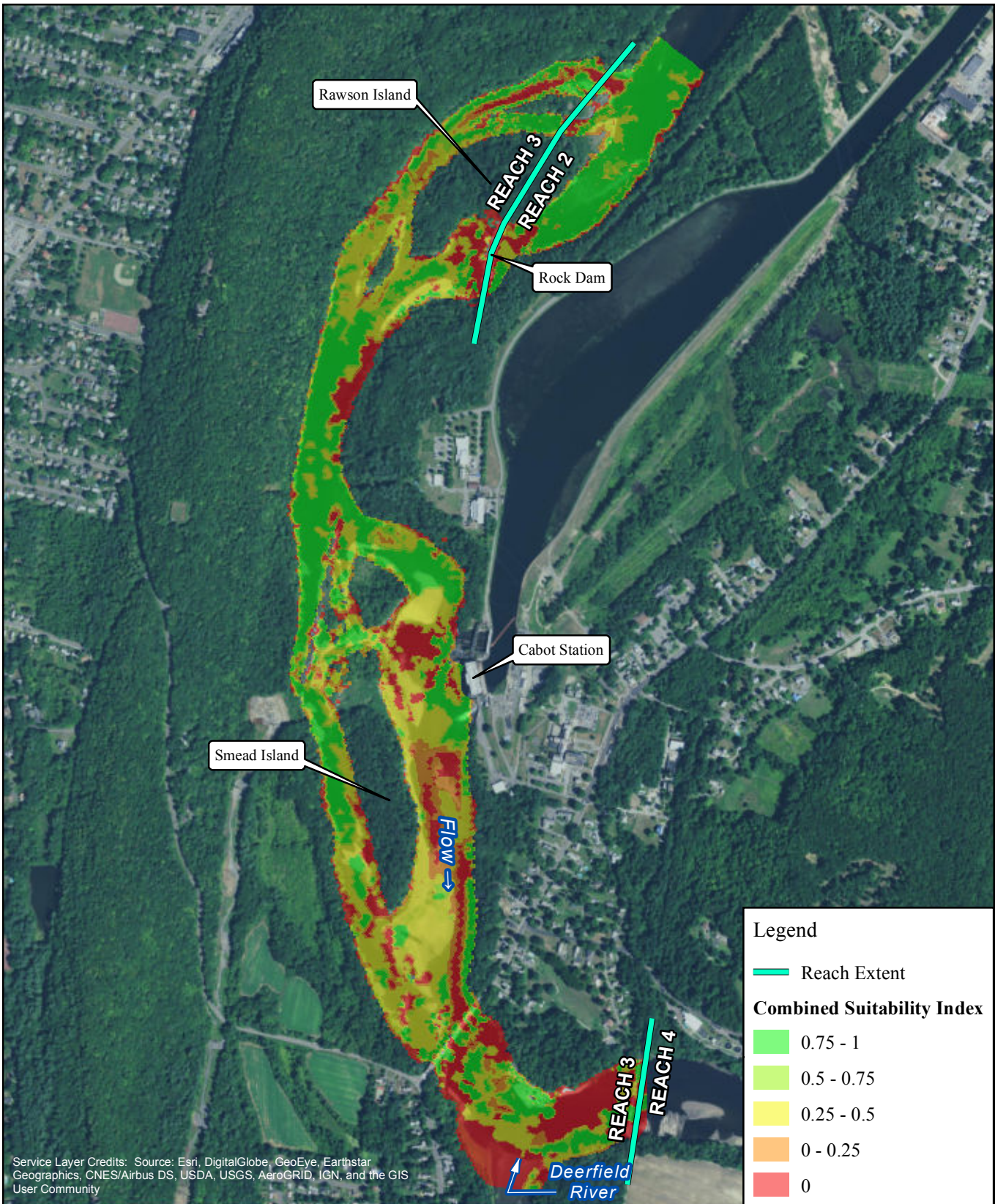
**Shortnose Sturgeon-Egg-Embryo**  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet



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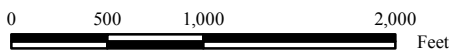




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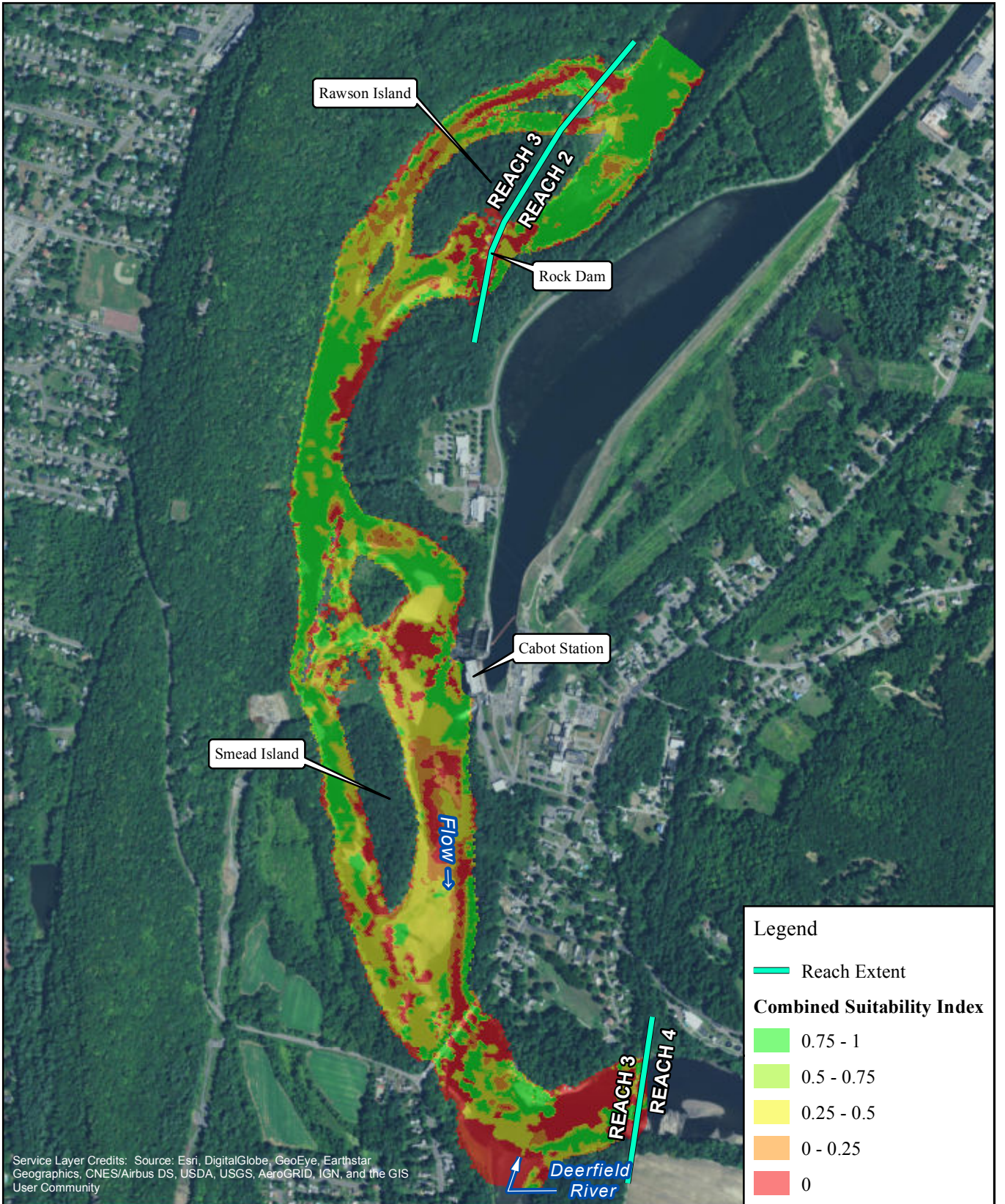
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

- Reach Extent

**Combined Suitability Index**

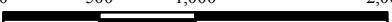
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**FIRSTLIGHT HYDRO GENERATING COMPANY**  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

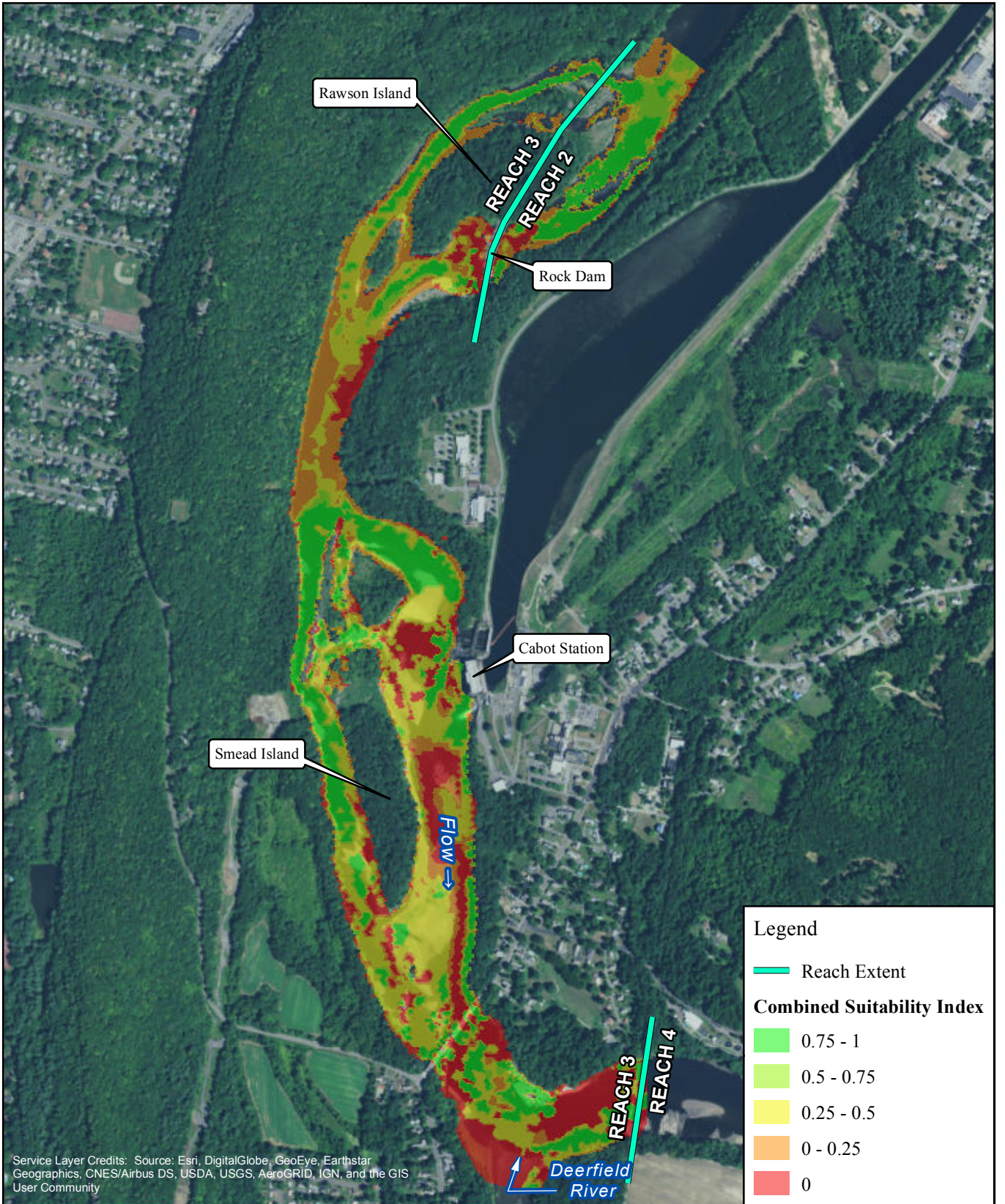
**Shortnose Sturgeon-Egg-Embryo**  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet



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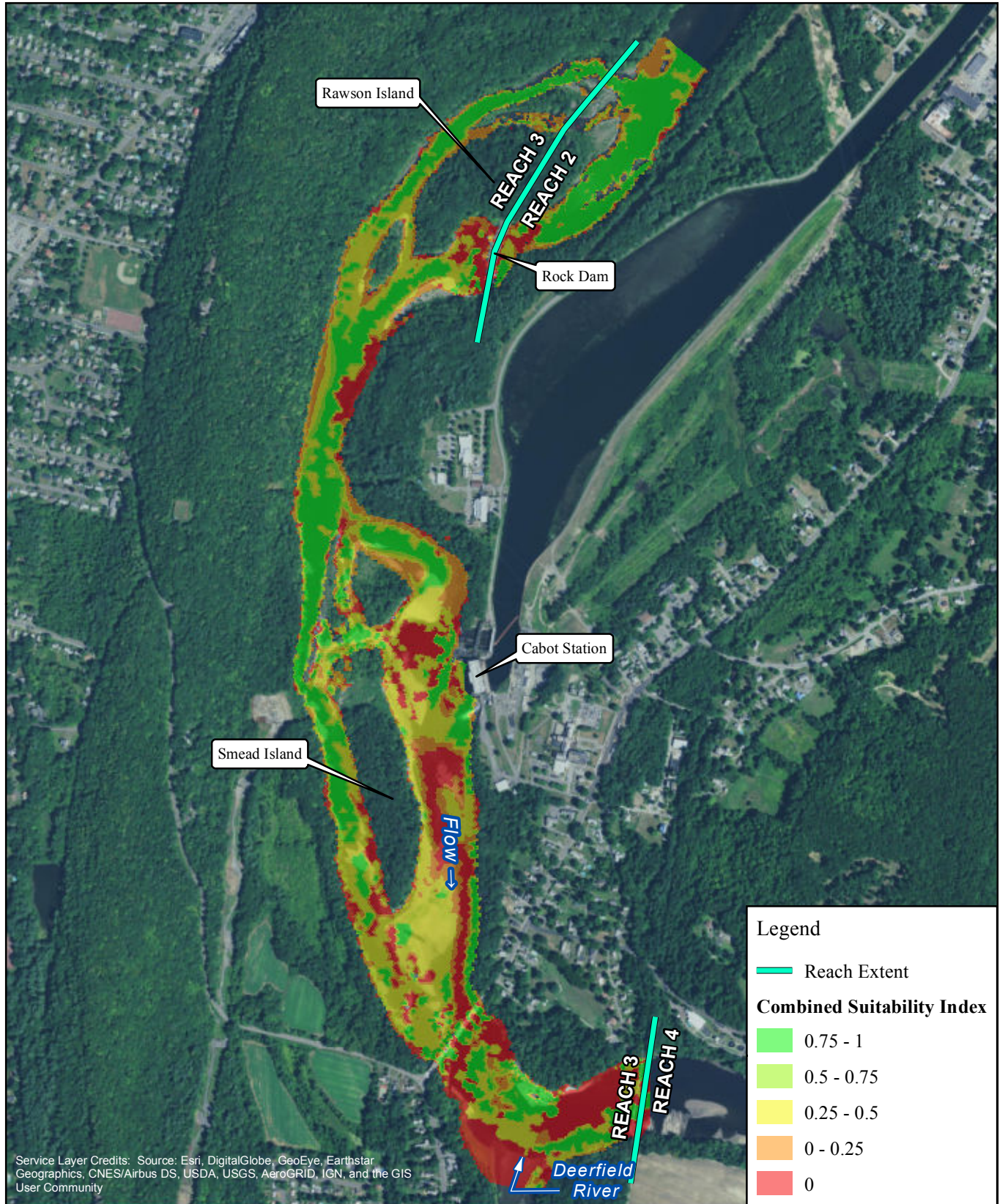




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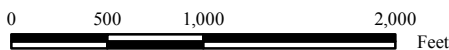


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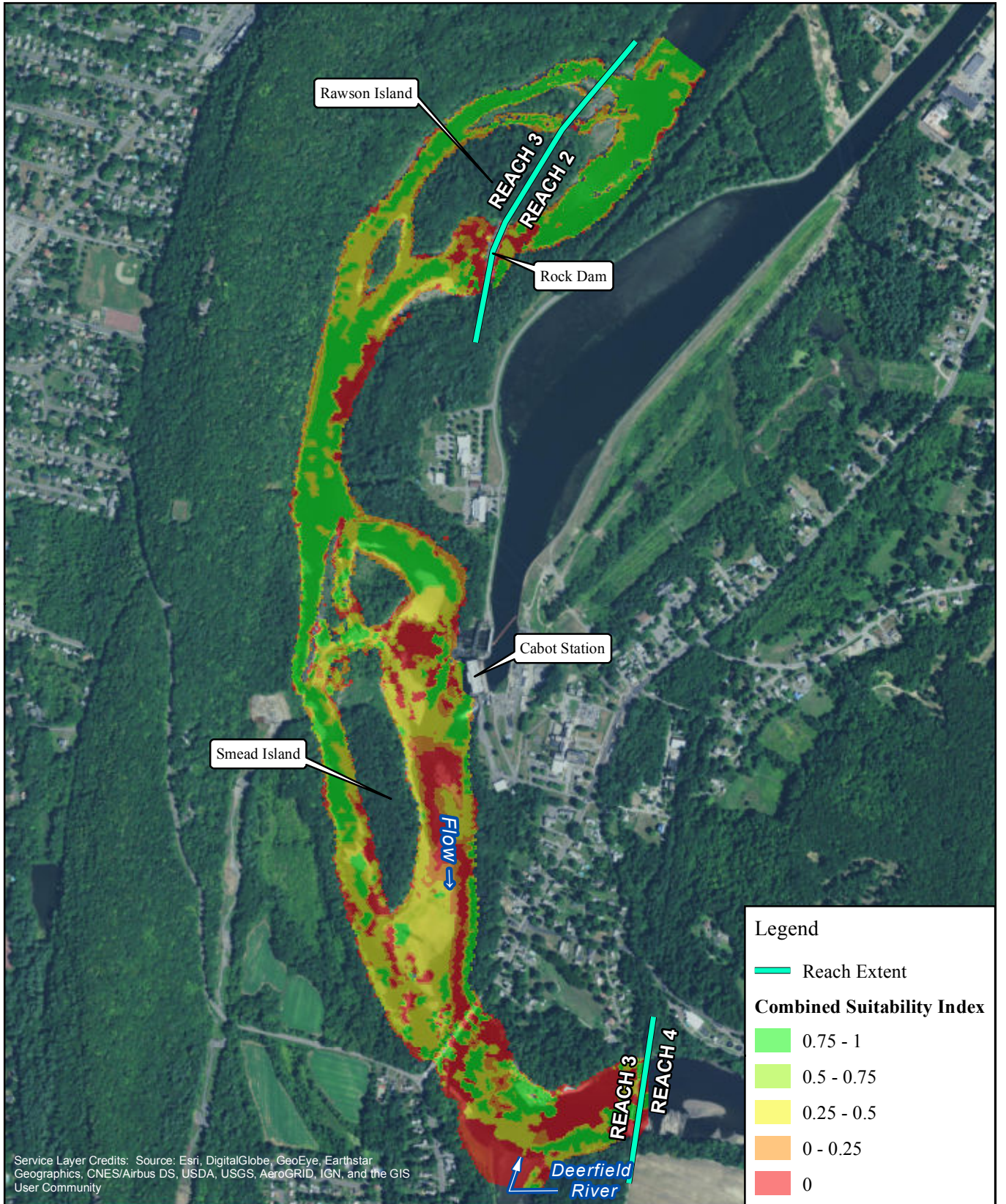
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1

Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

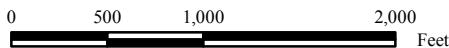


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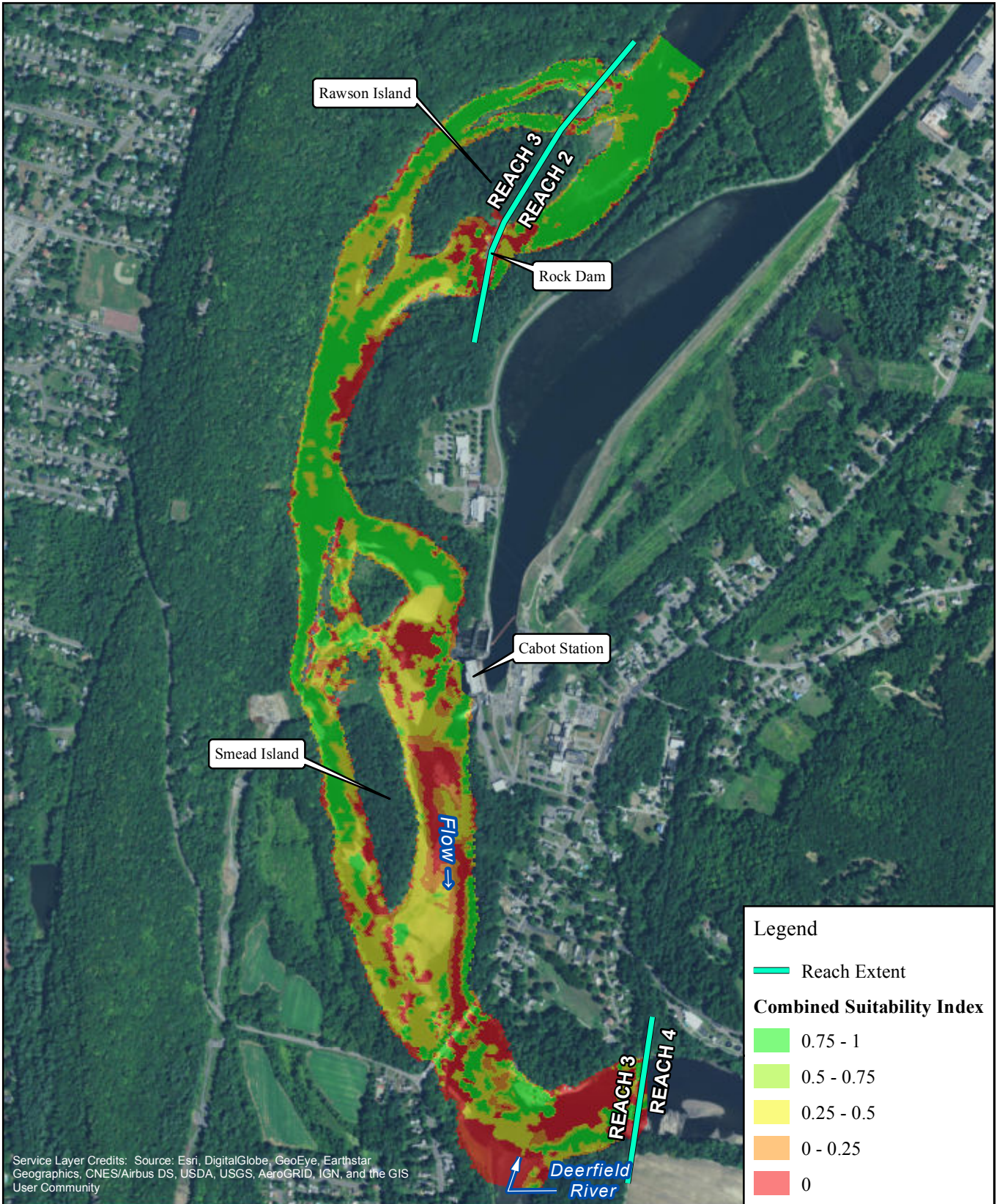
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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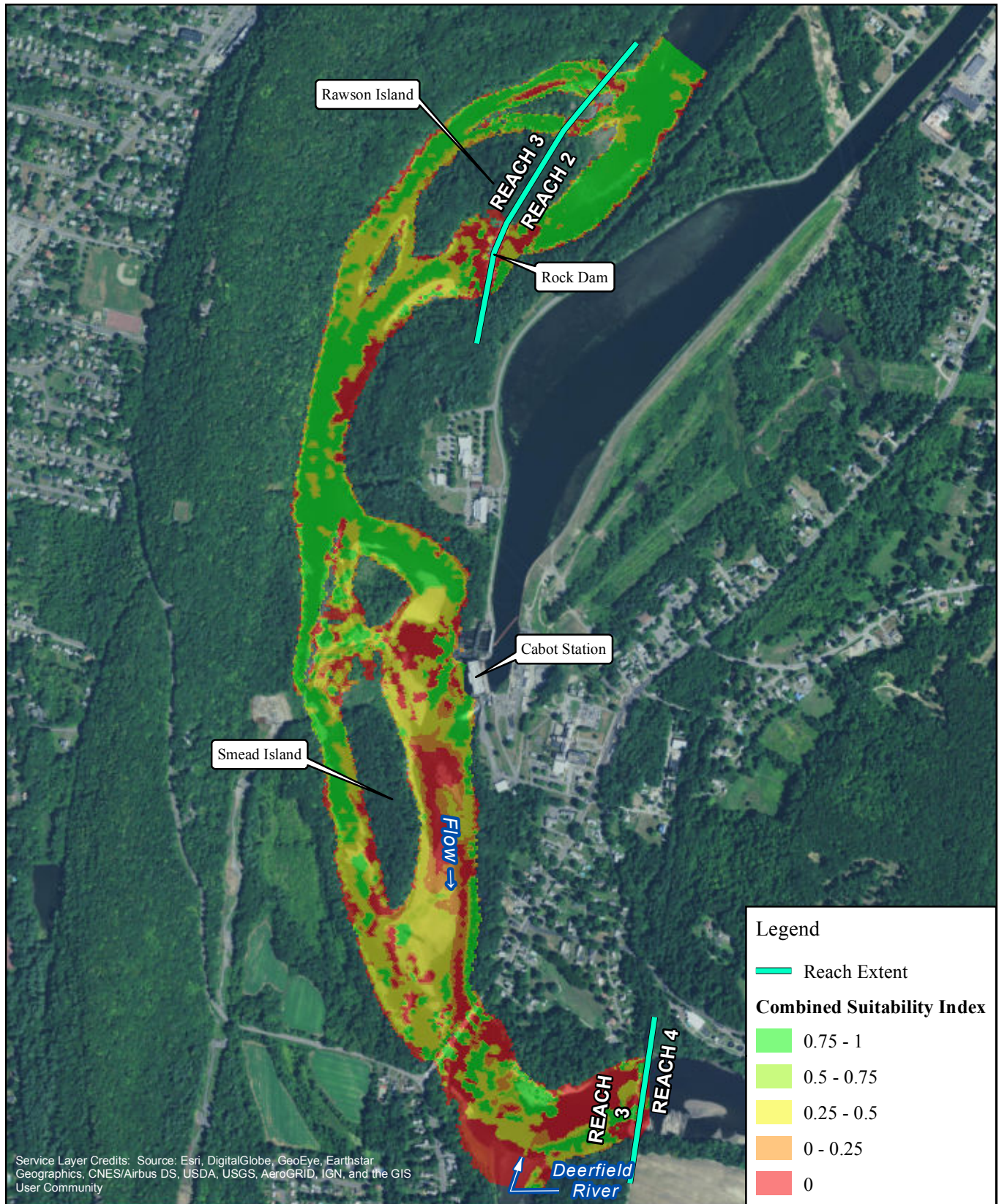




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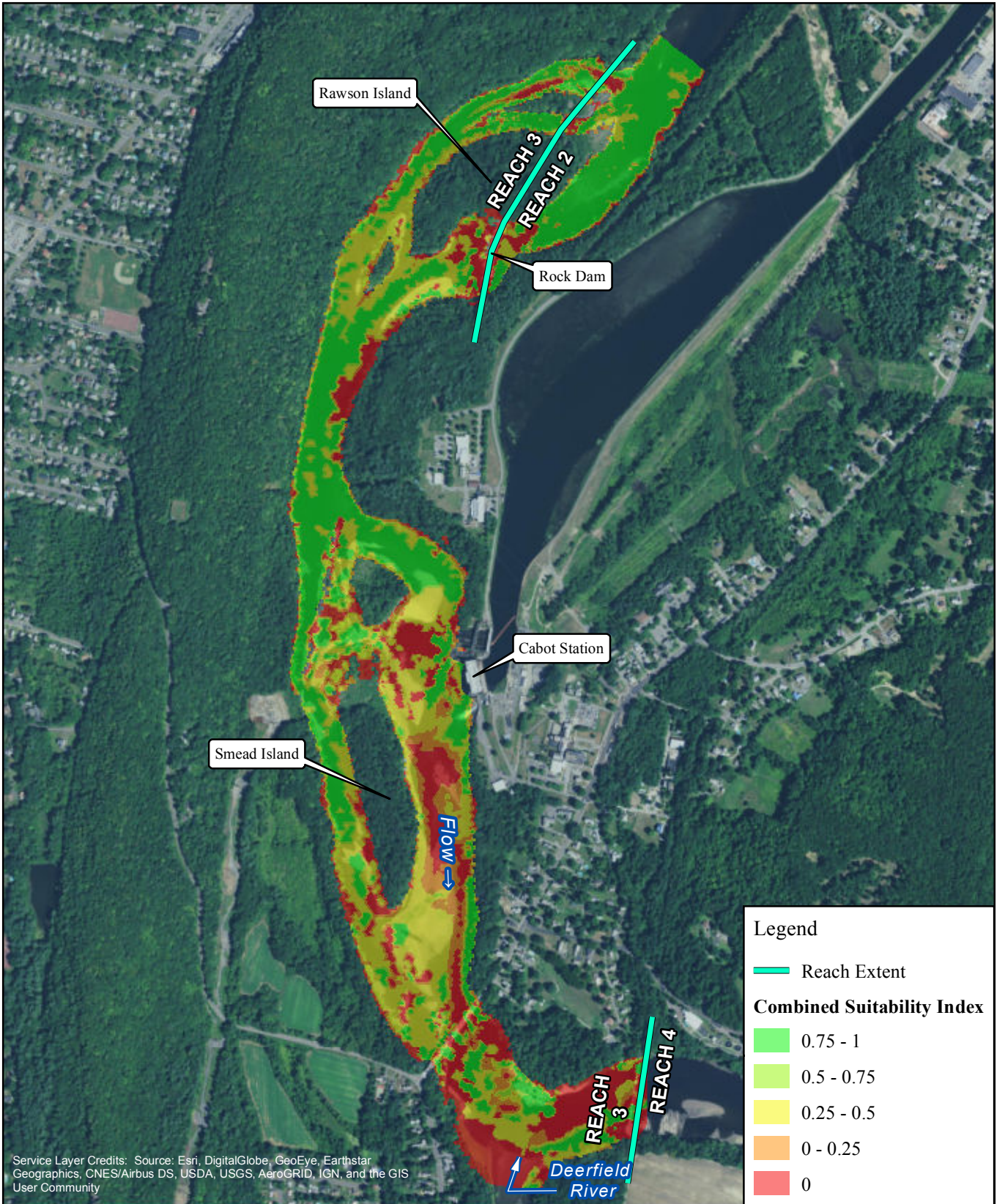
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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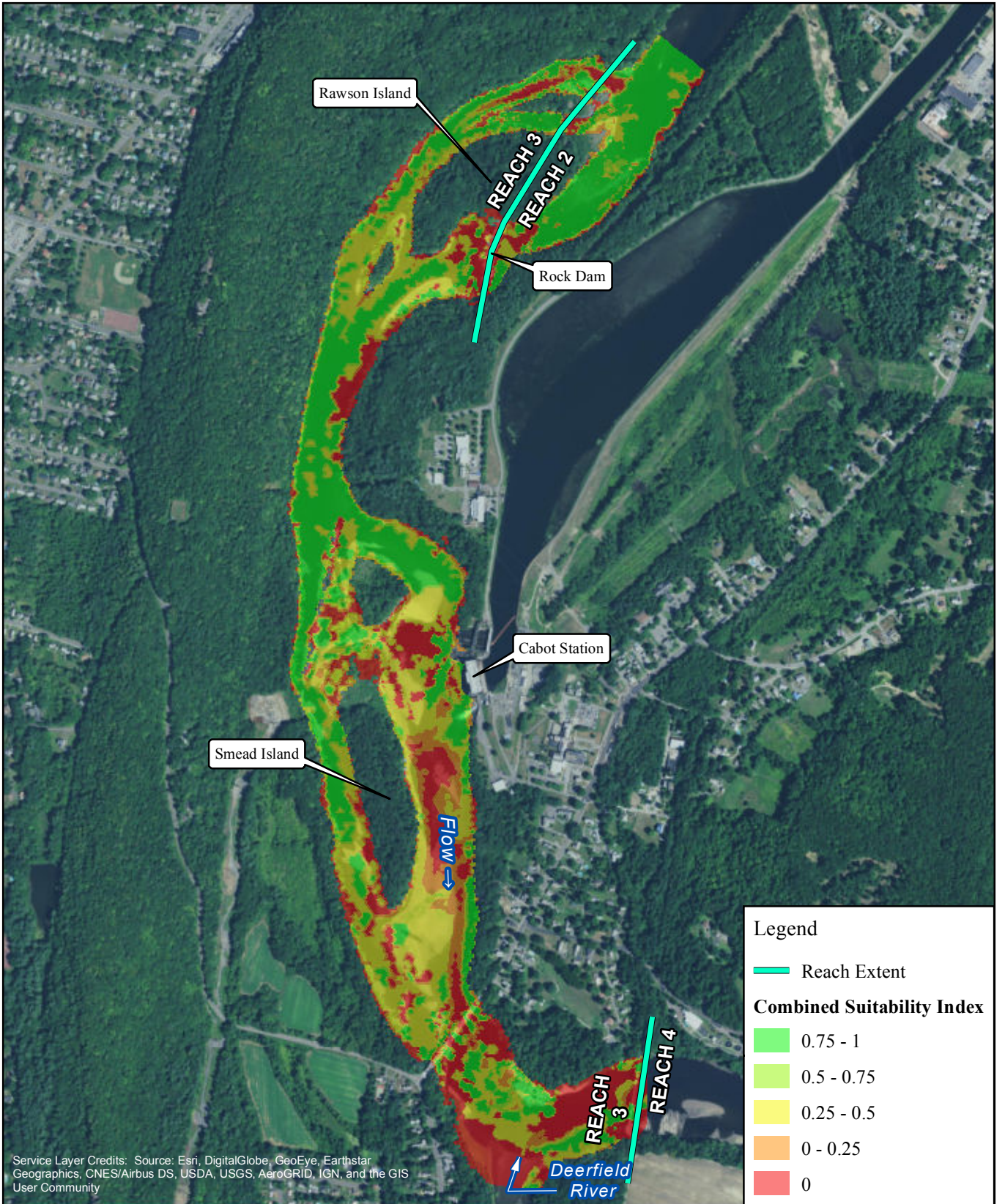
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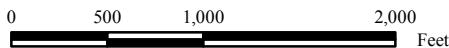
Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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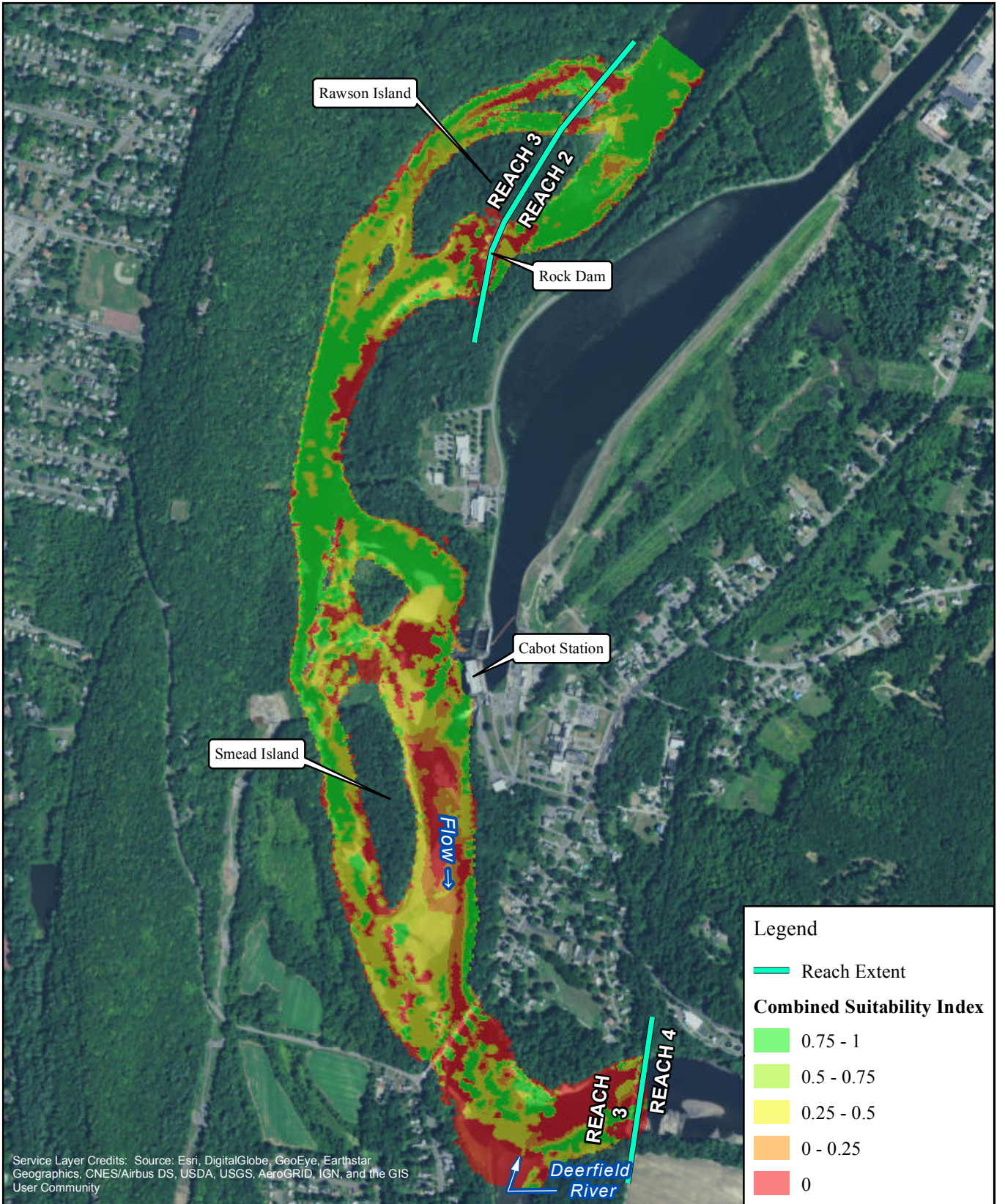
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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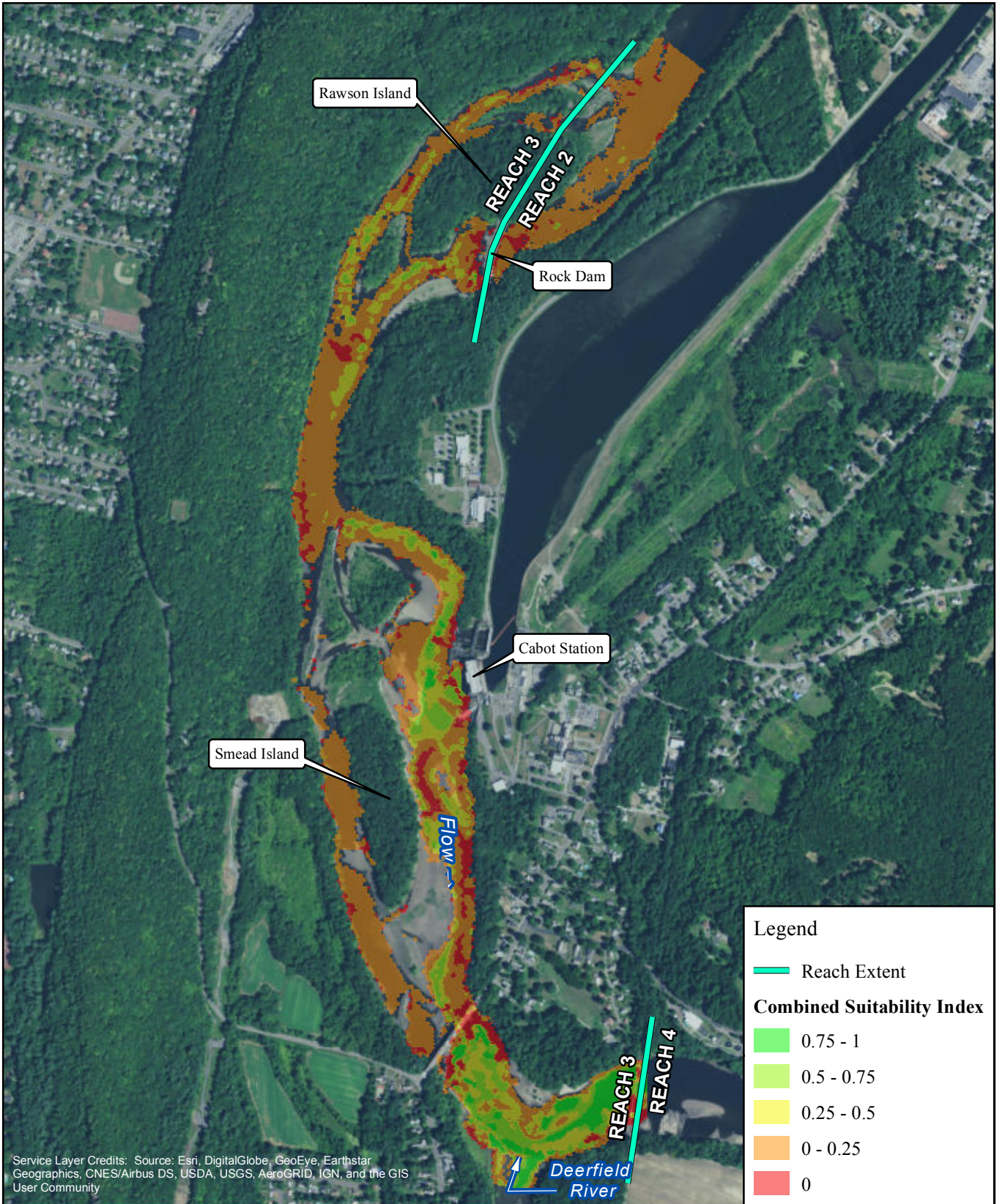
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Egg-Embryo  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

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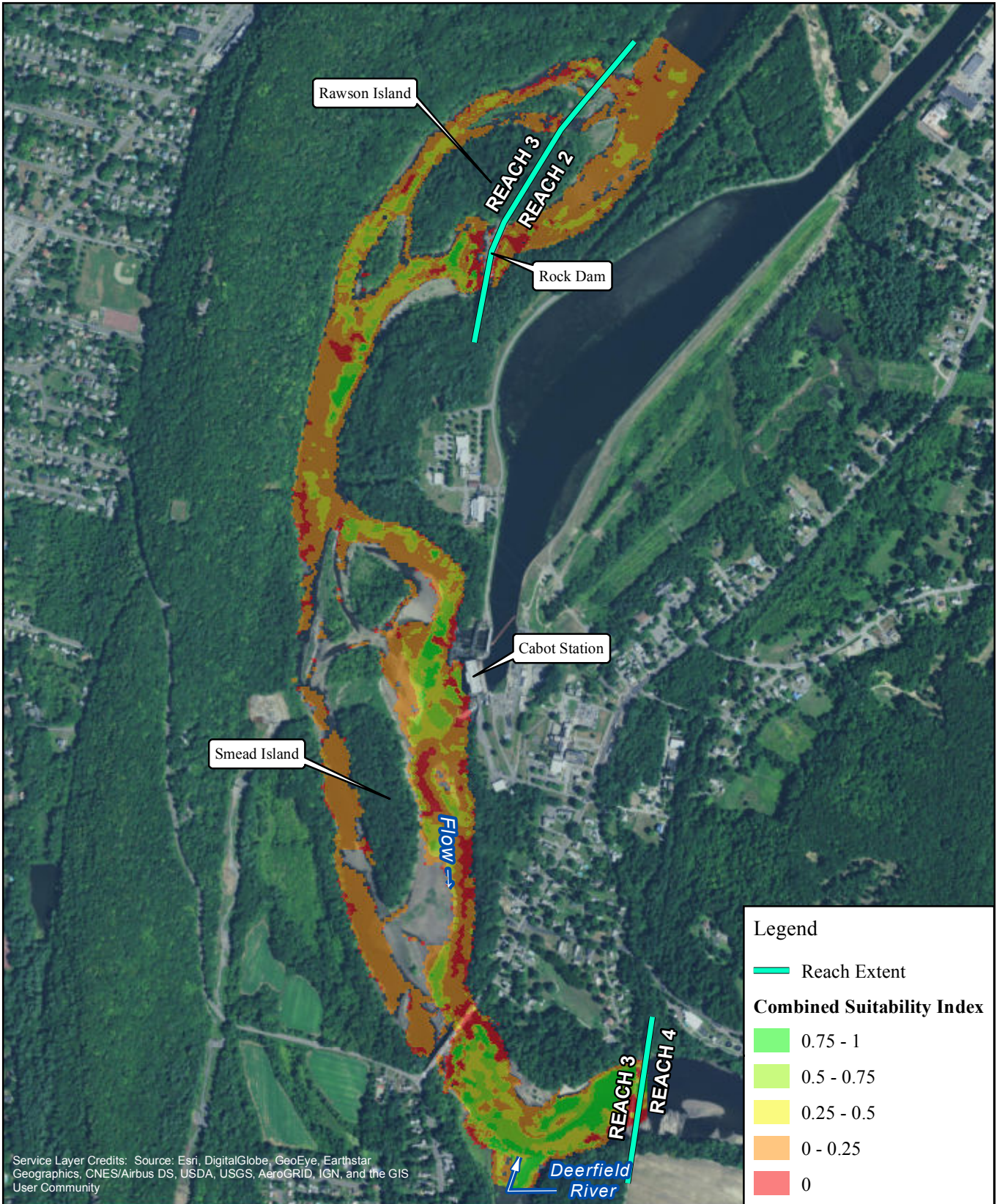
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 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Fry  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

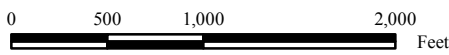
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**Combined Suitability Index**

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- 0.5 - 0.75
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- 0 - 0.25
- 0



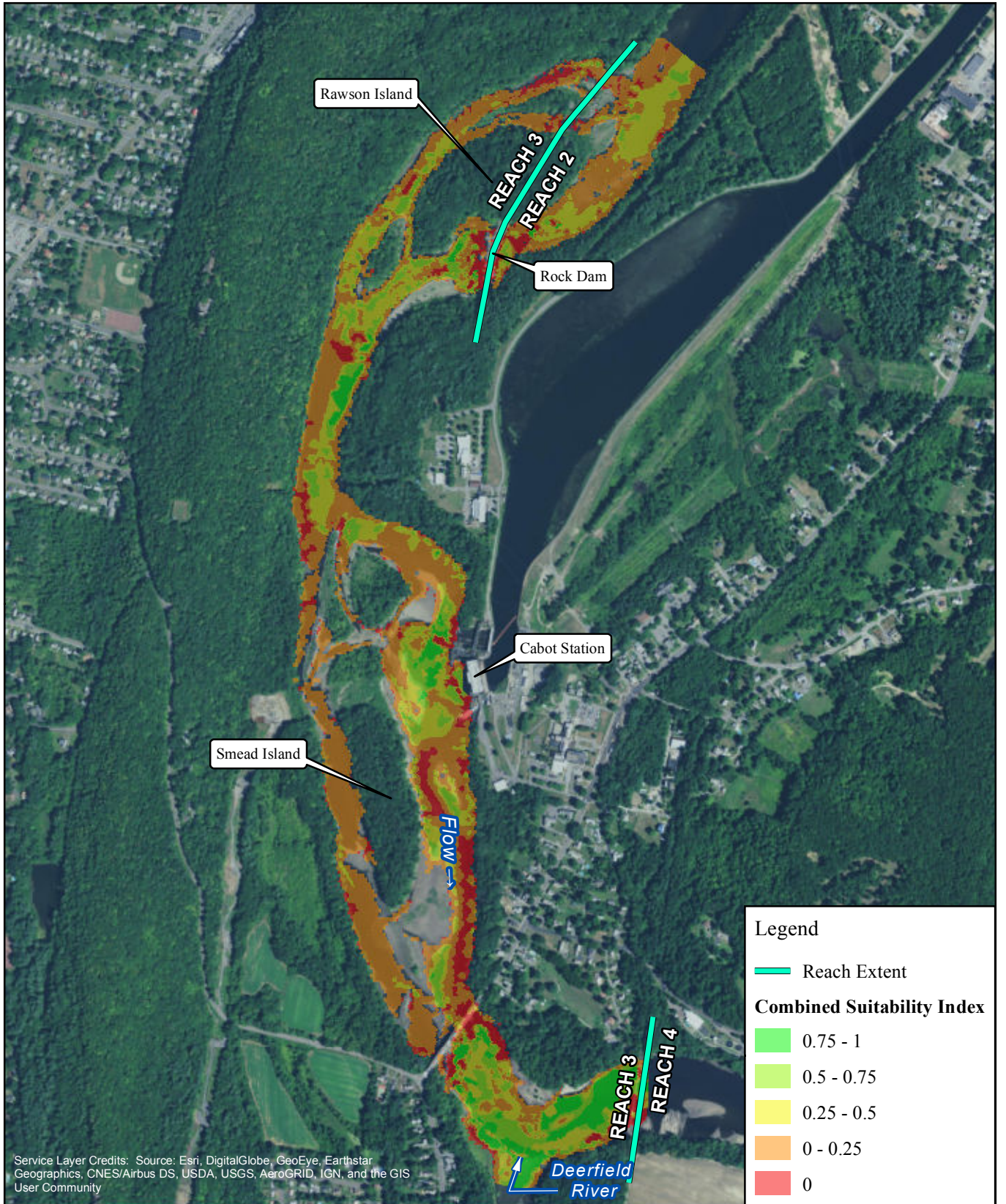
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 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Fry**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

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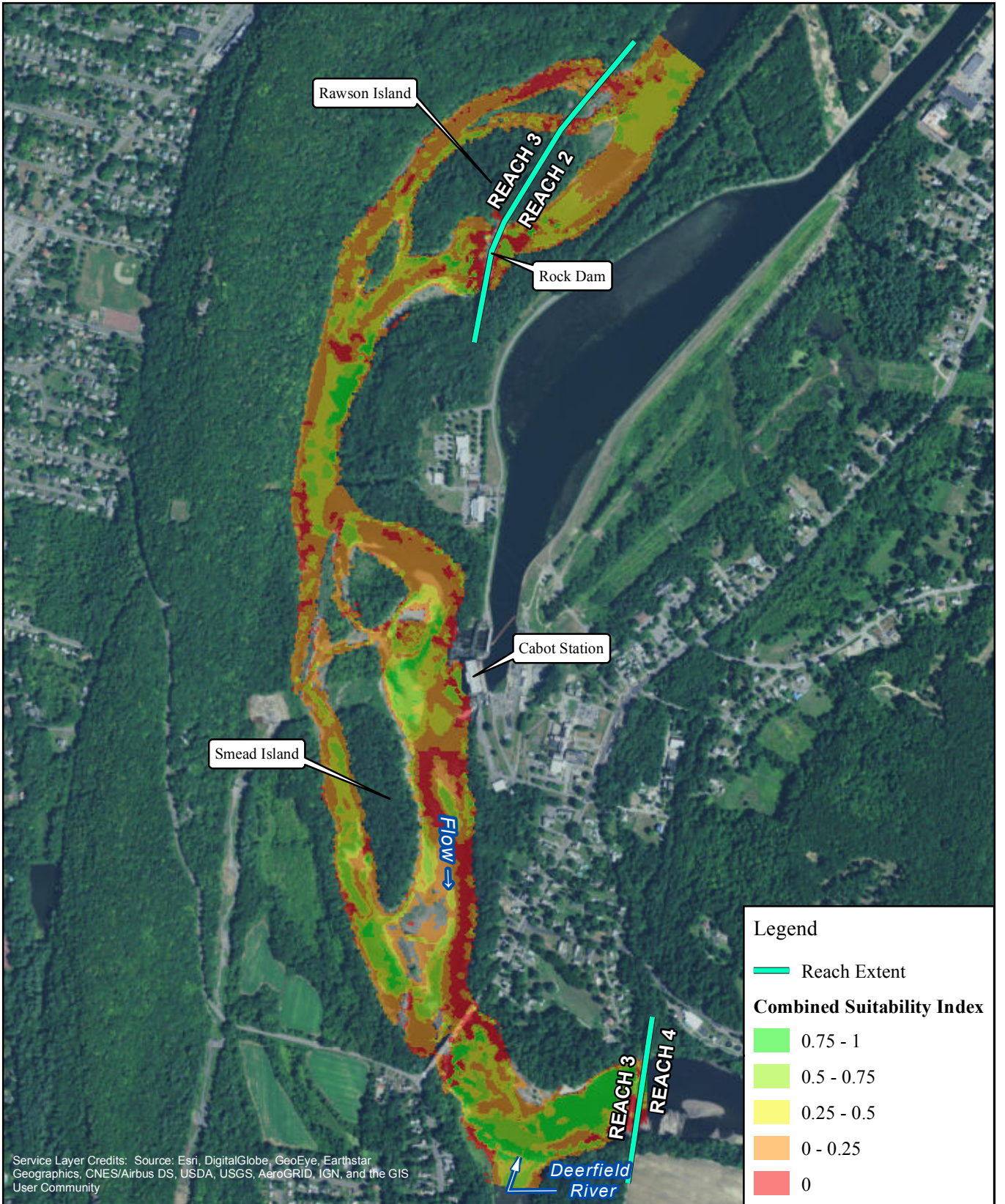
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Fry  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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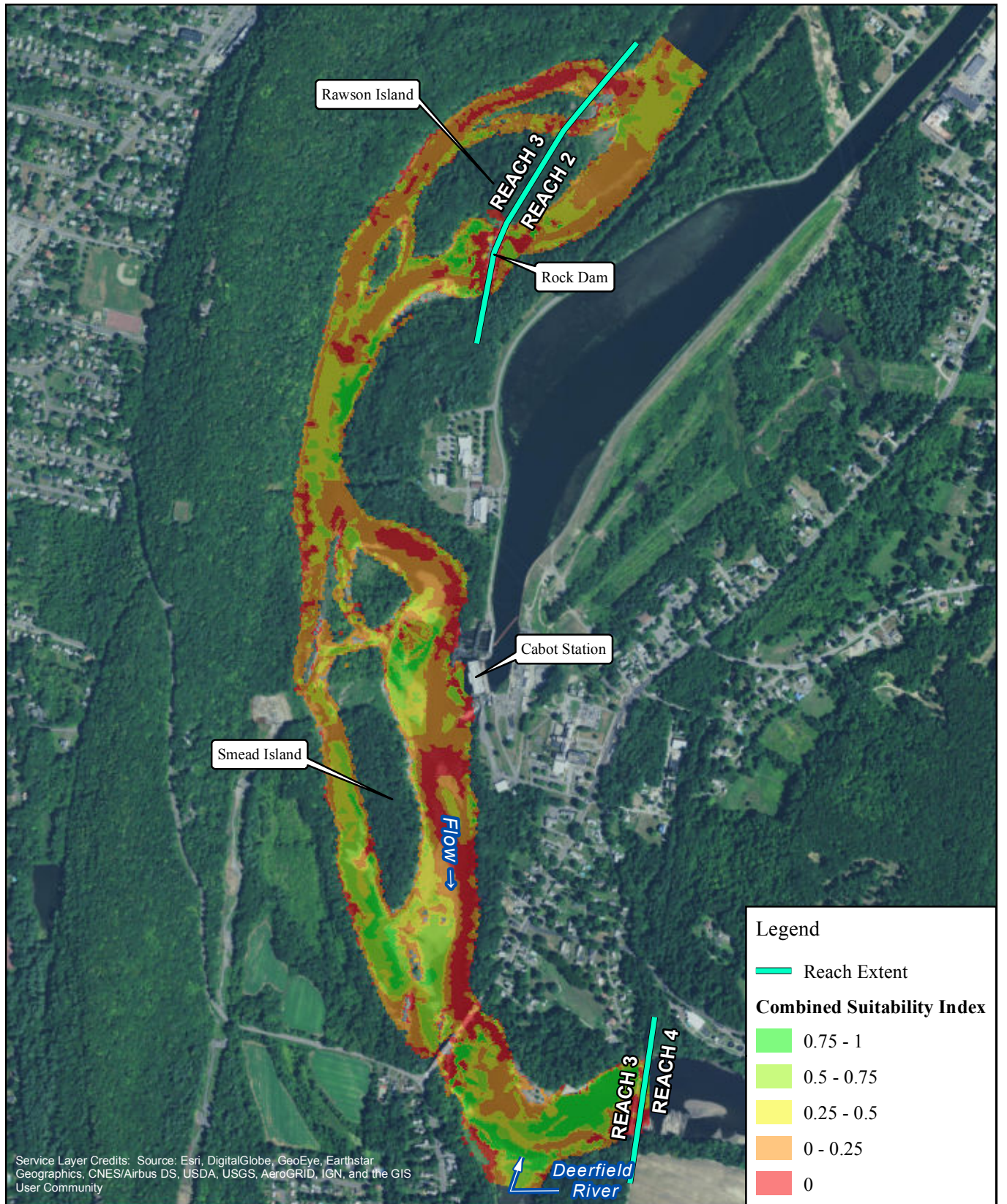
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 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Fry  
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 Deerfield Flow: 200 cfs

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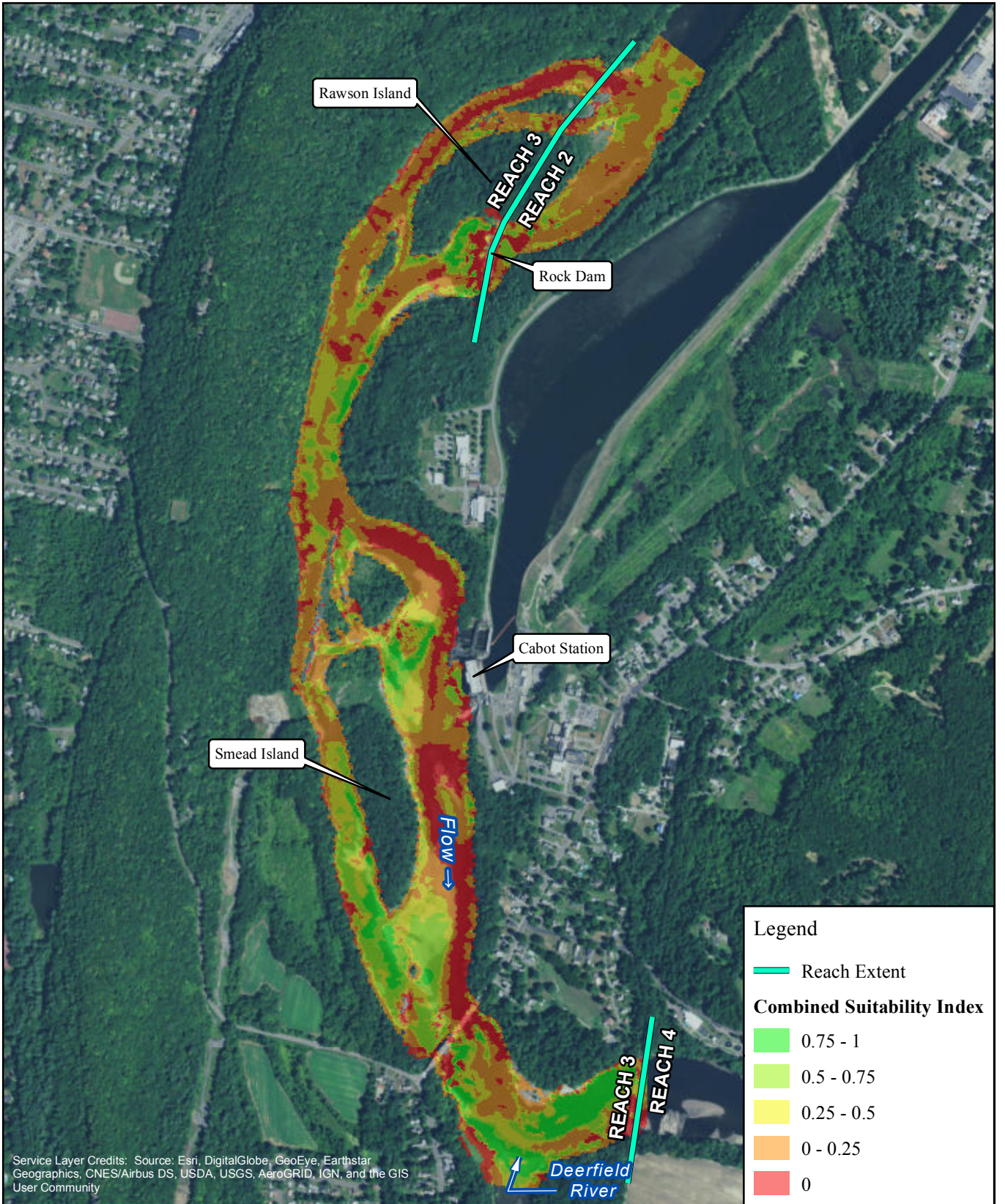
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 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Fry  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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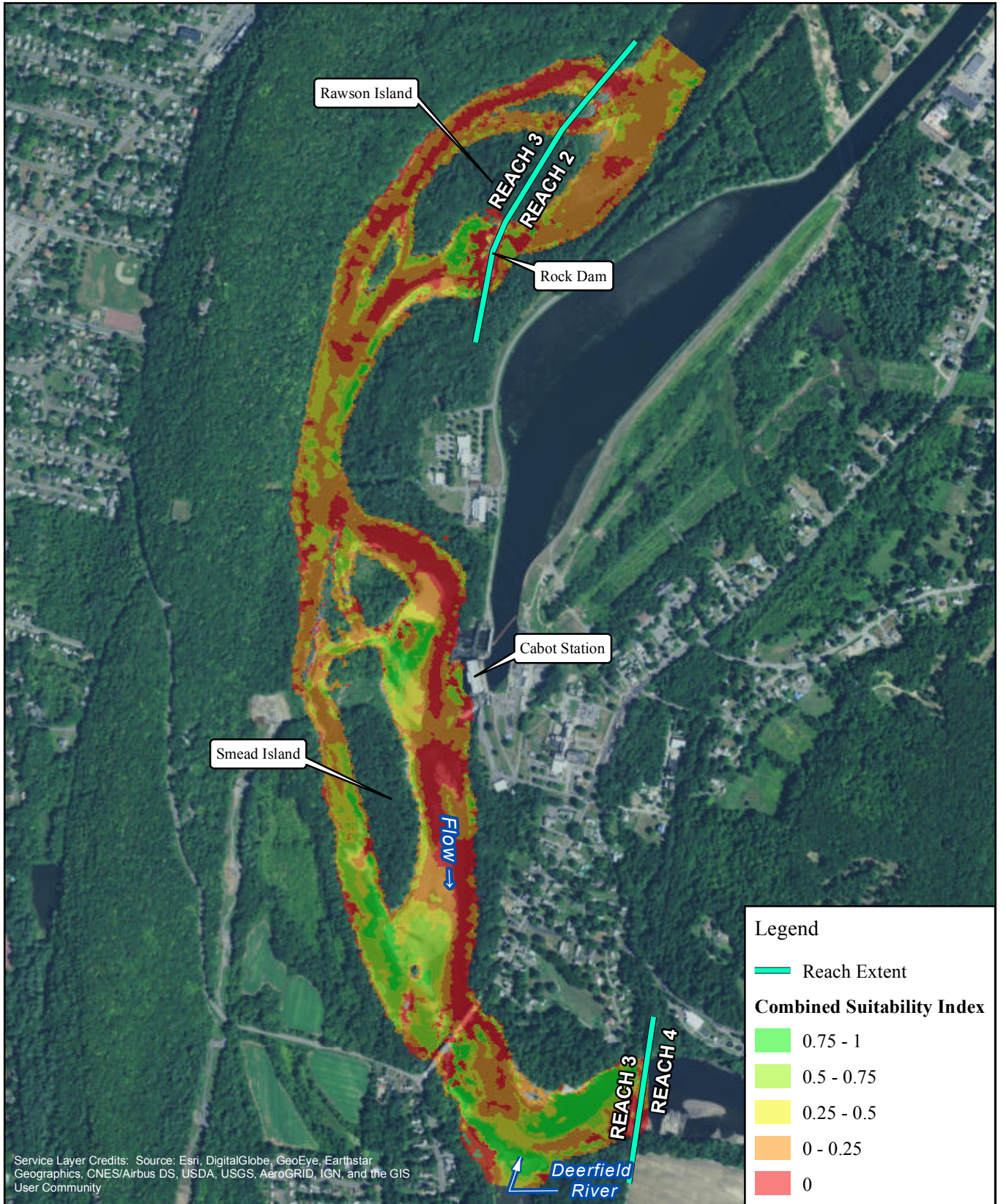
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 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Fry**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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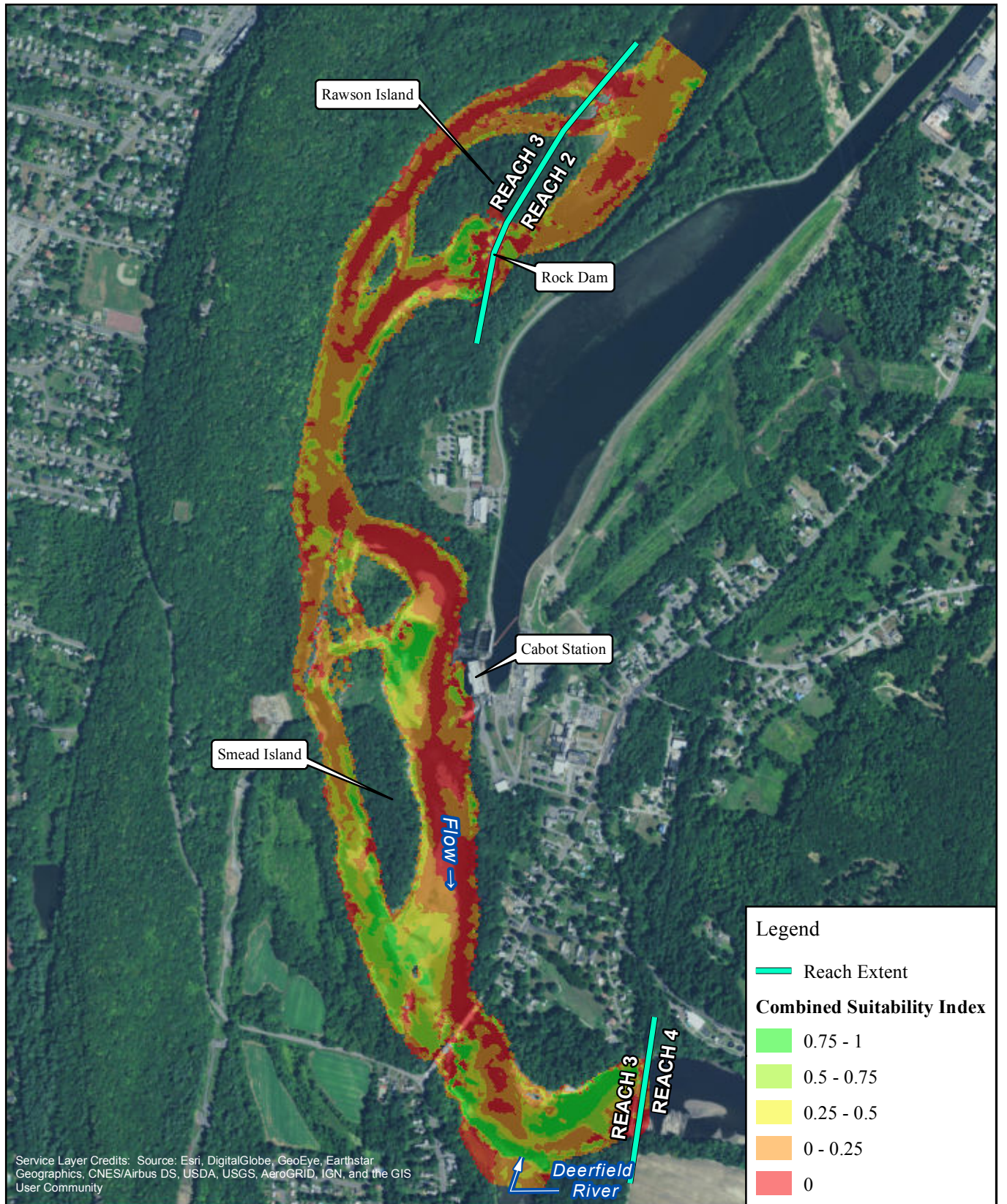
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Shortnose Sturgeon-Fry  
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 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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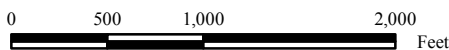




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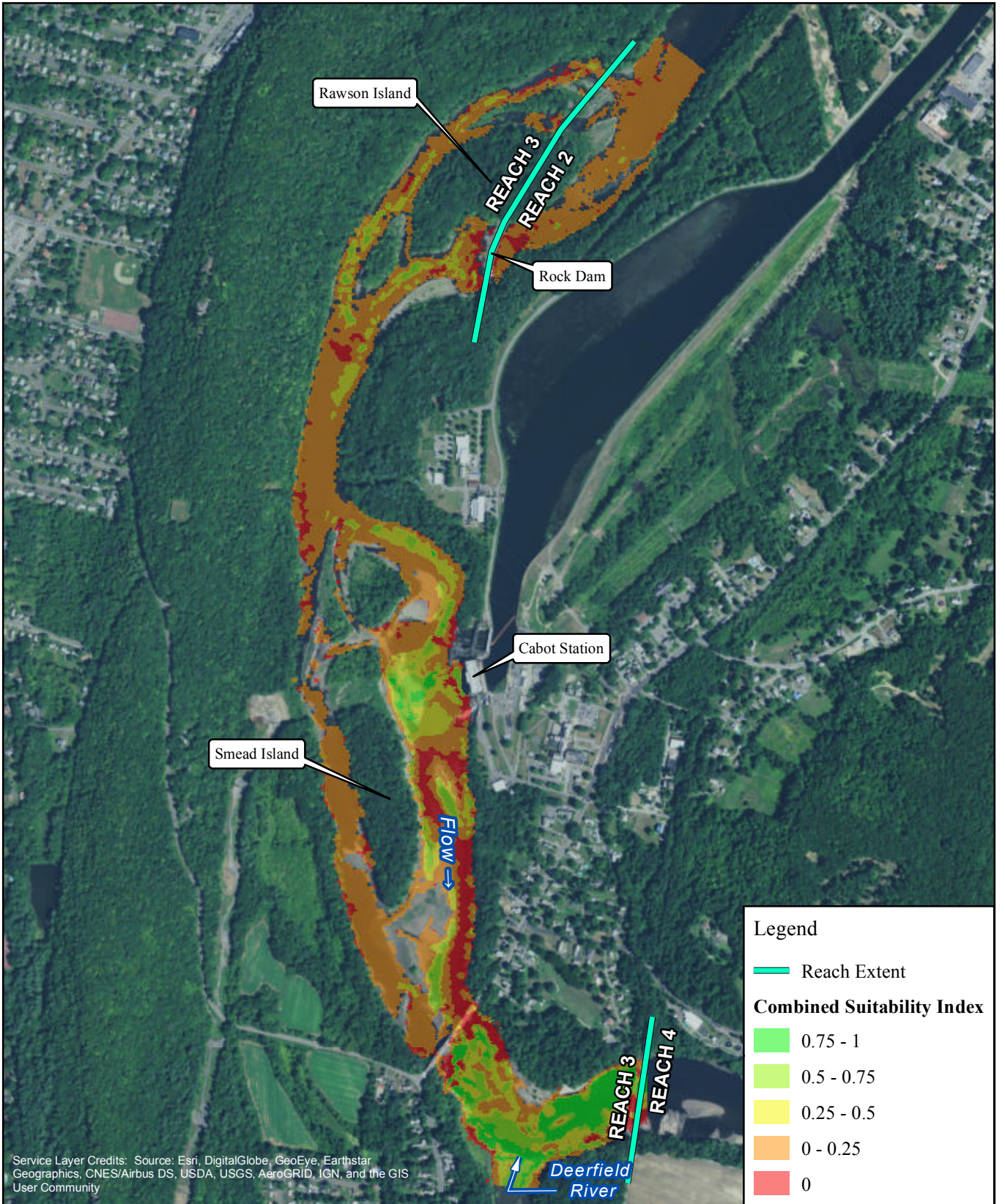
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Shortnose Sturgeon-Fry  
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**Legend**

- Reach Extent

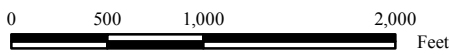
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889

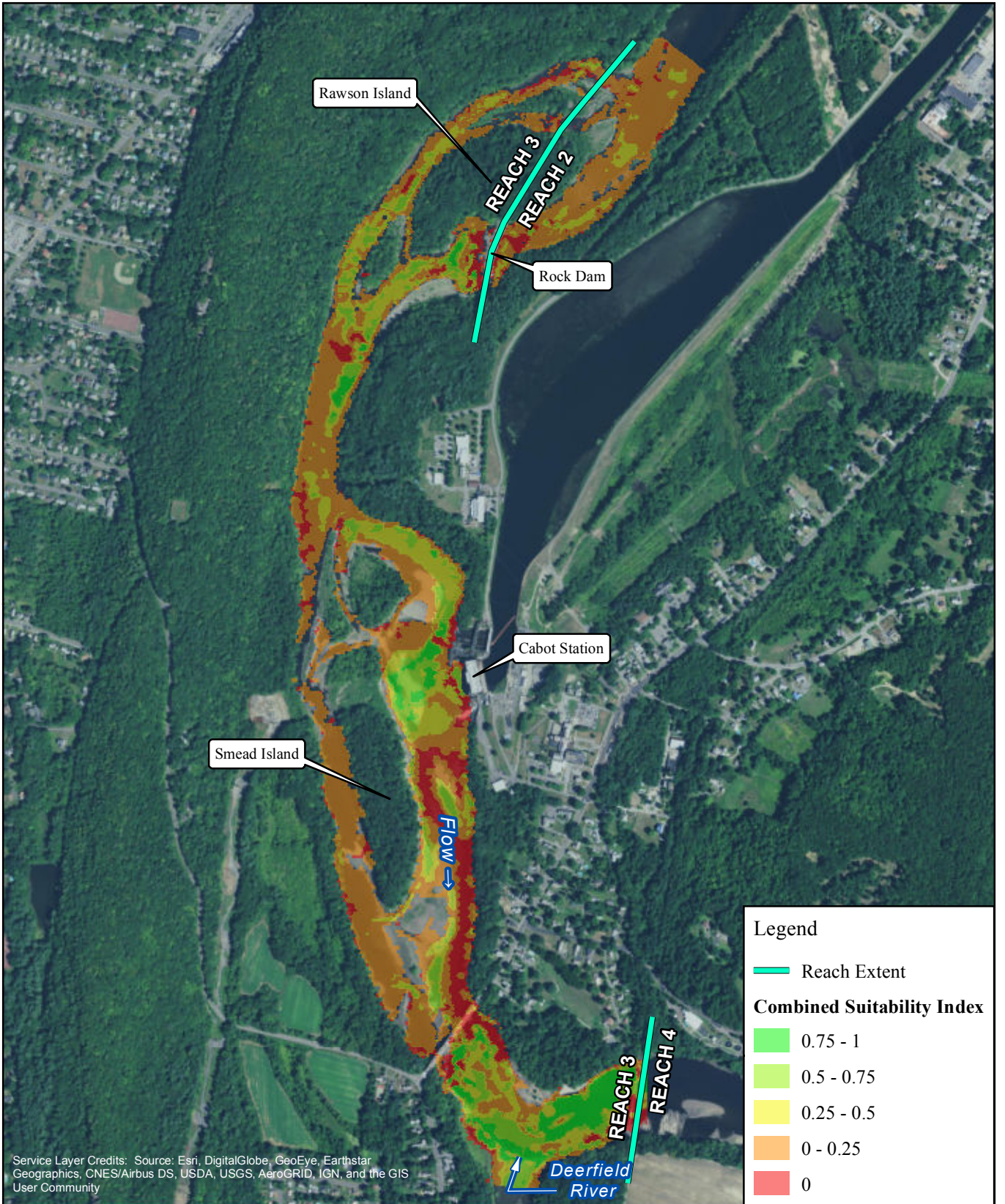
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Fry**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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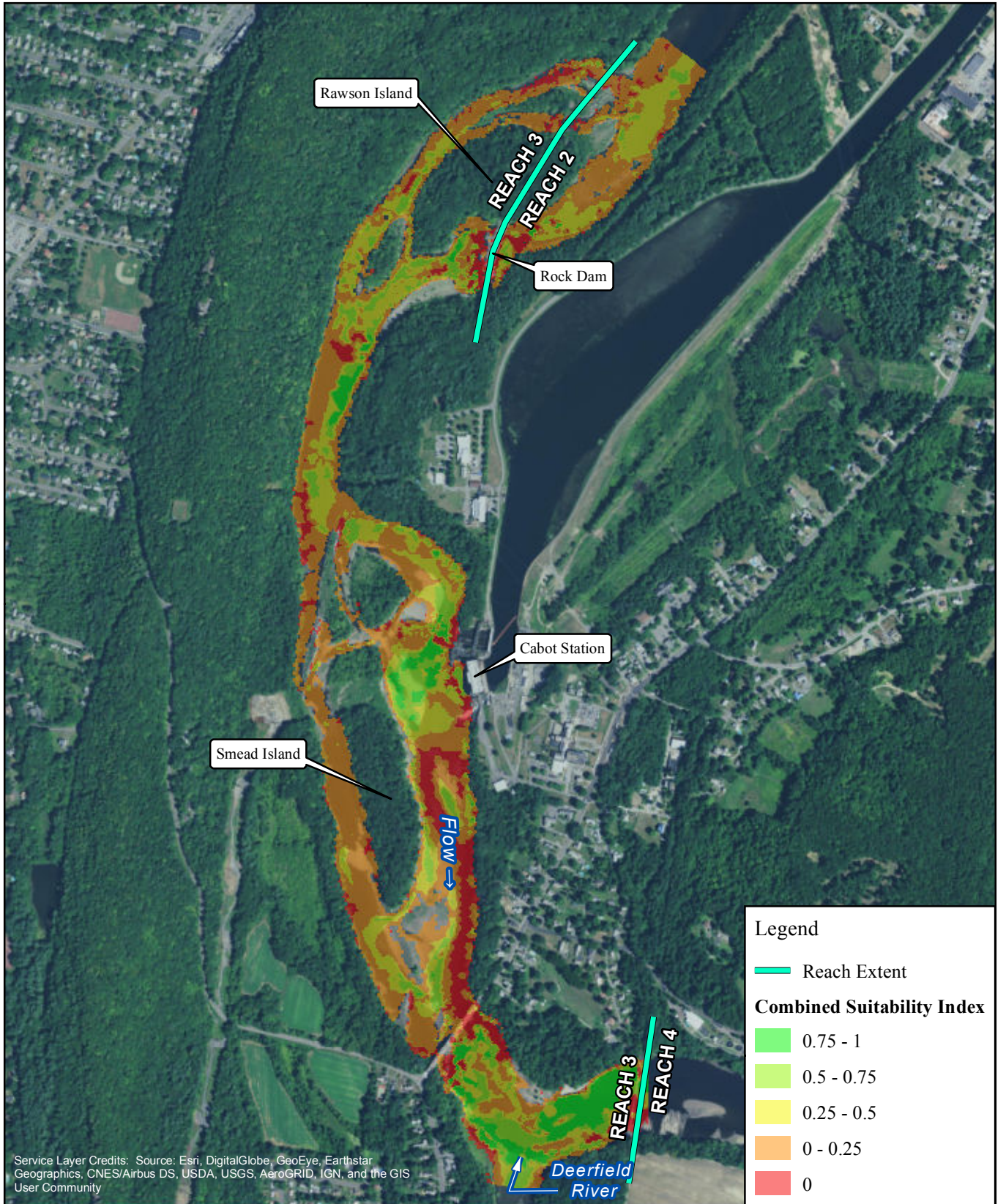
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Shortnose Sturgeon-Fry  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

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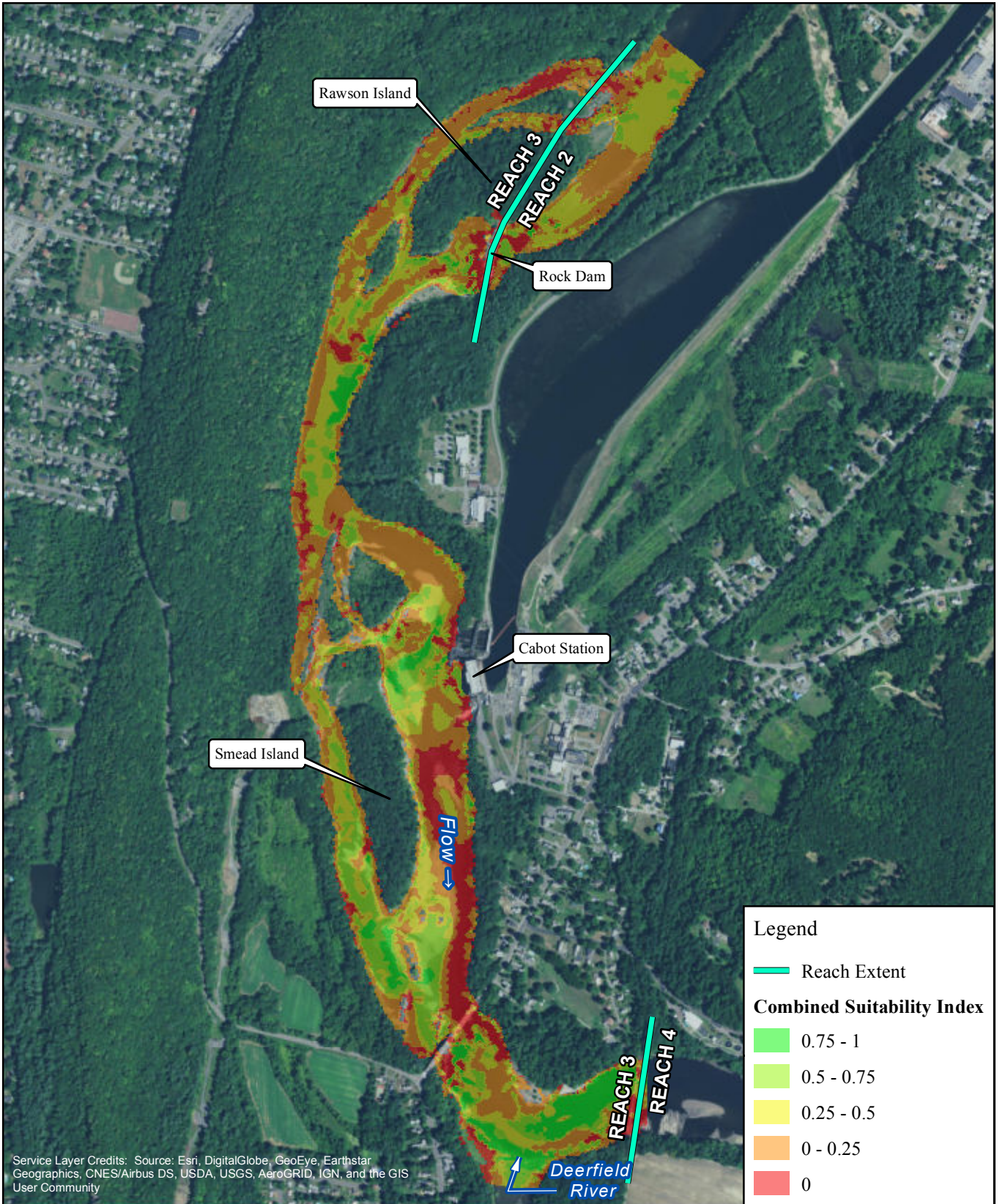
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Shortnose Sturgeon-Fry  
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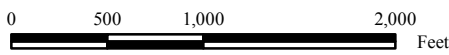
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**Combined Suitability Index**

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- 0



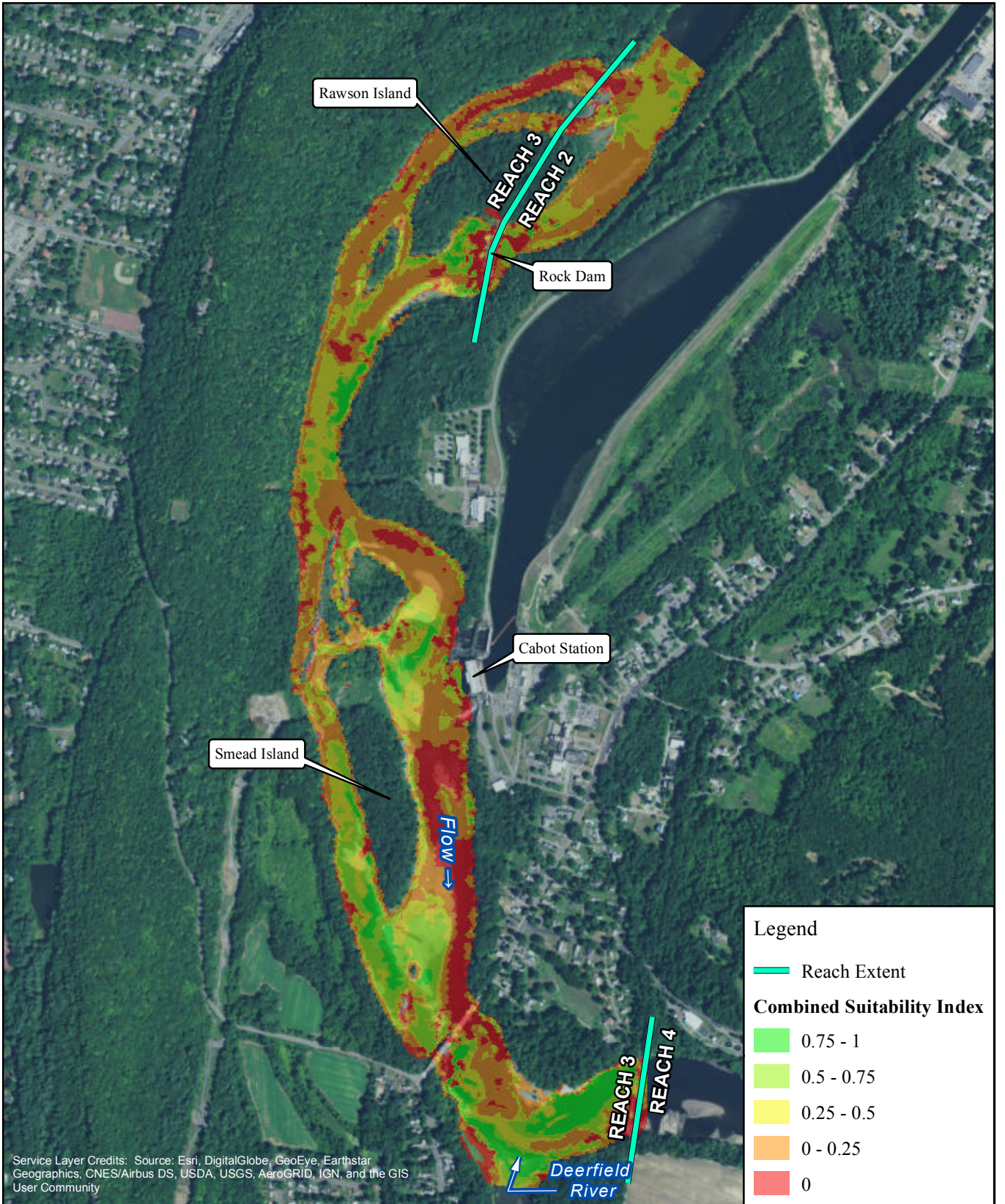
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**Shortnose Sturgeon-Fry**  
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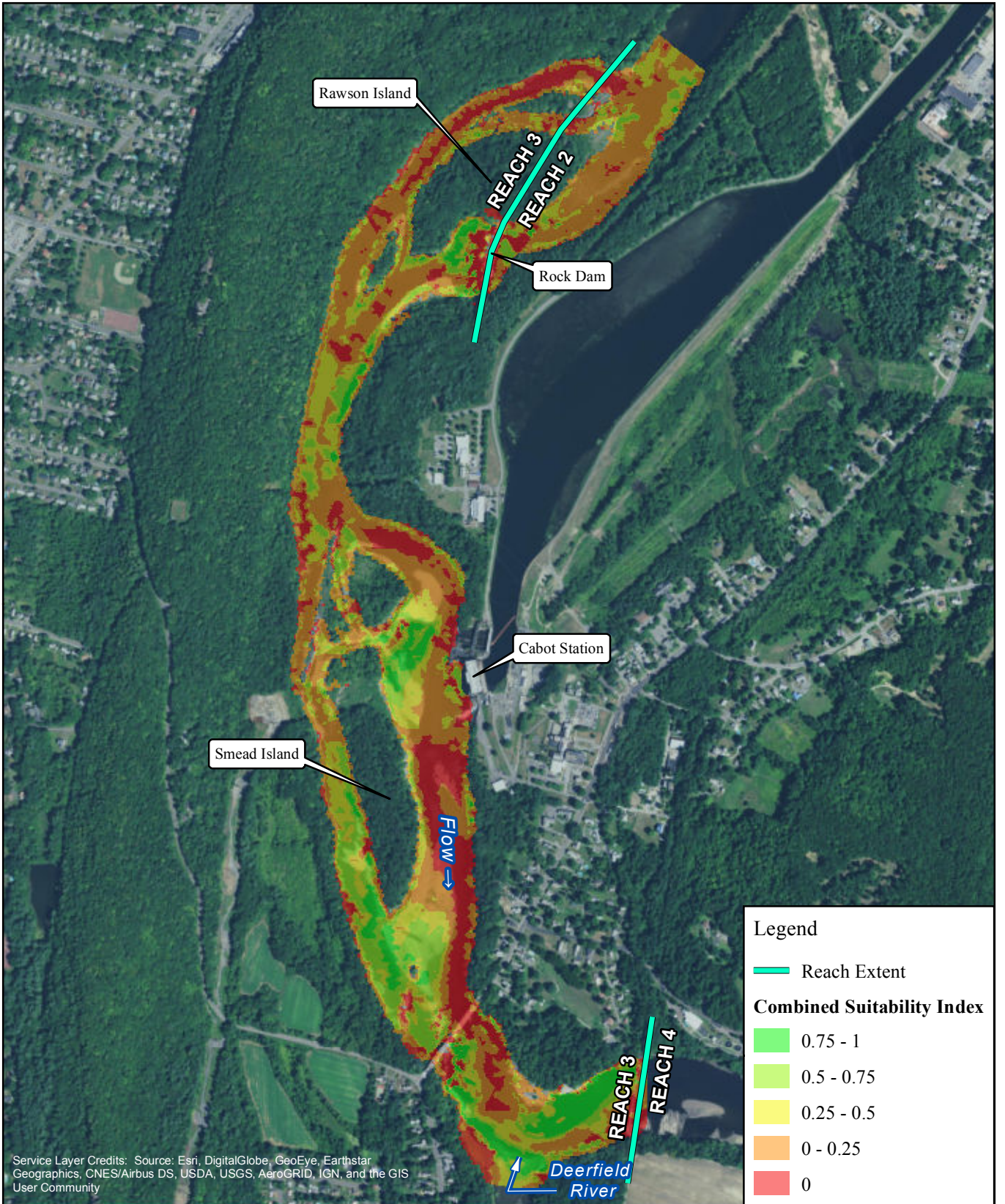
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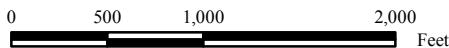
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 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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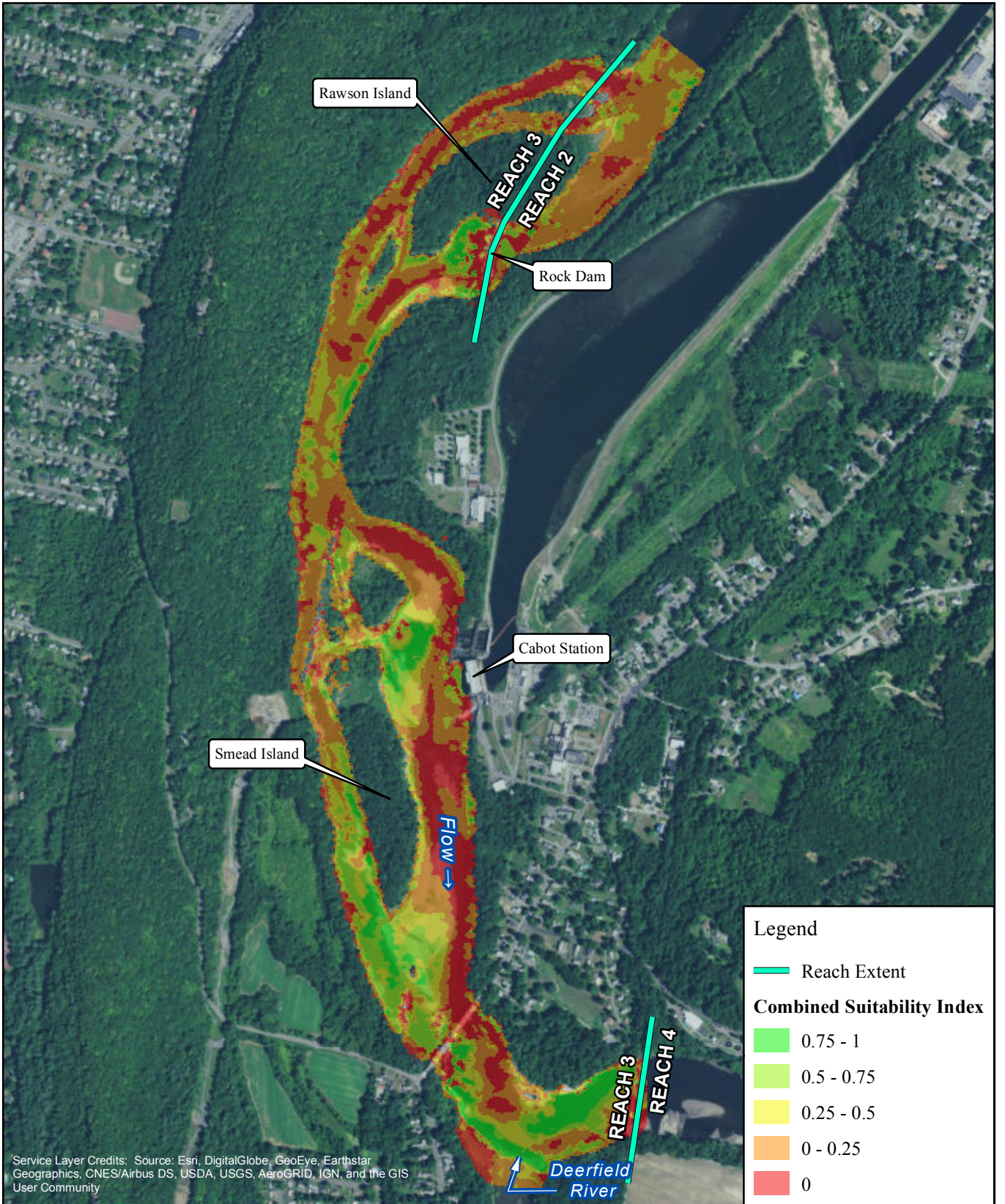
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Shortnose Sturgeon-Fry  
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 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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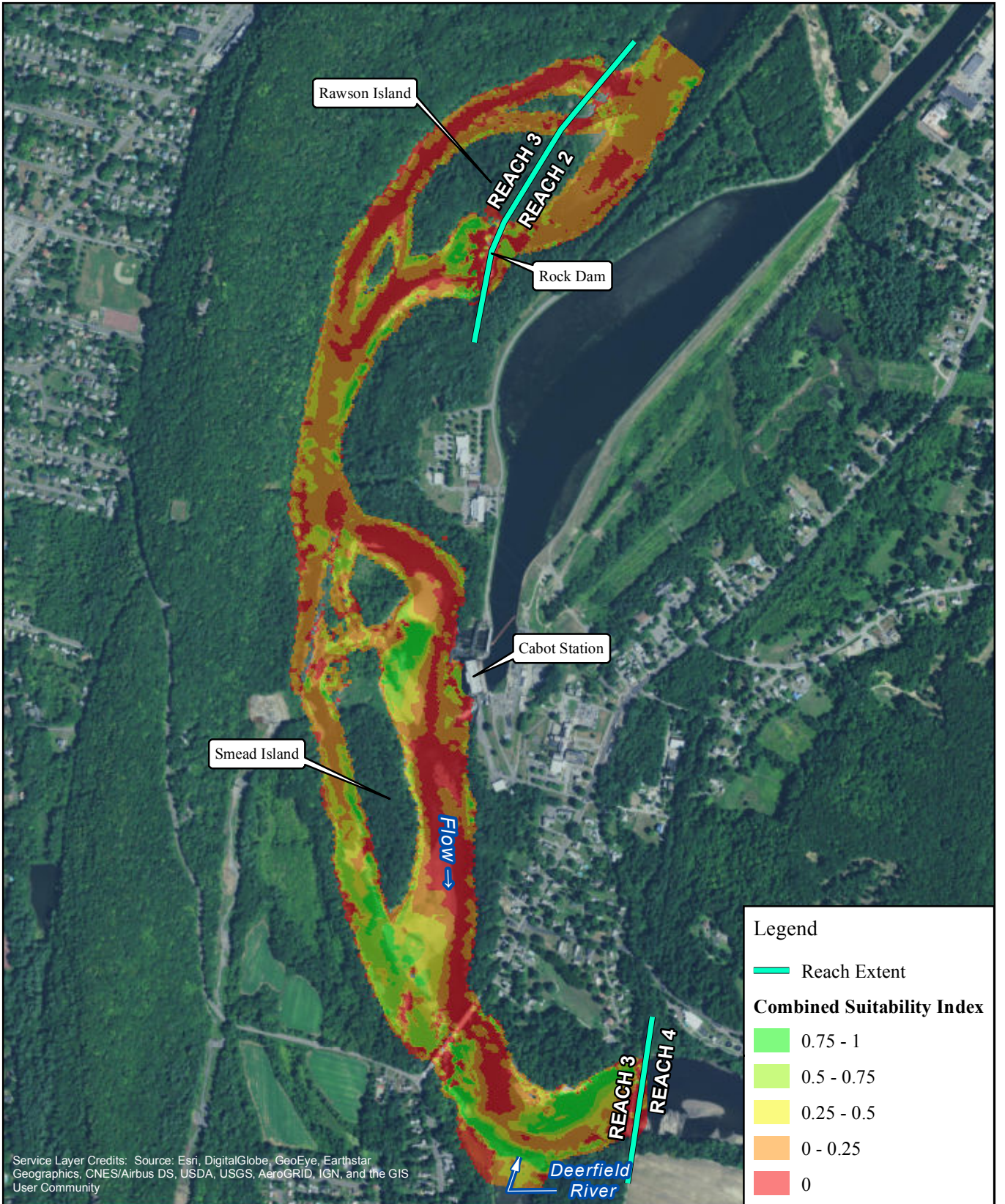
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Shortnose Sturgeon-Fry  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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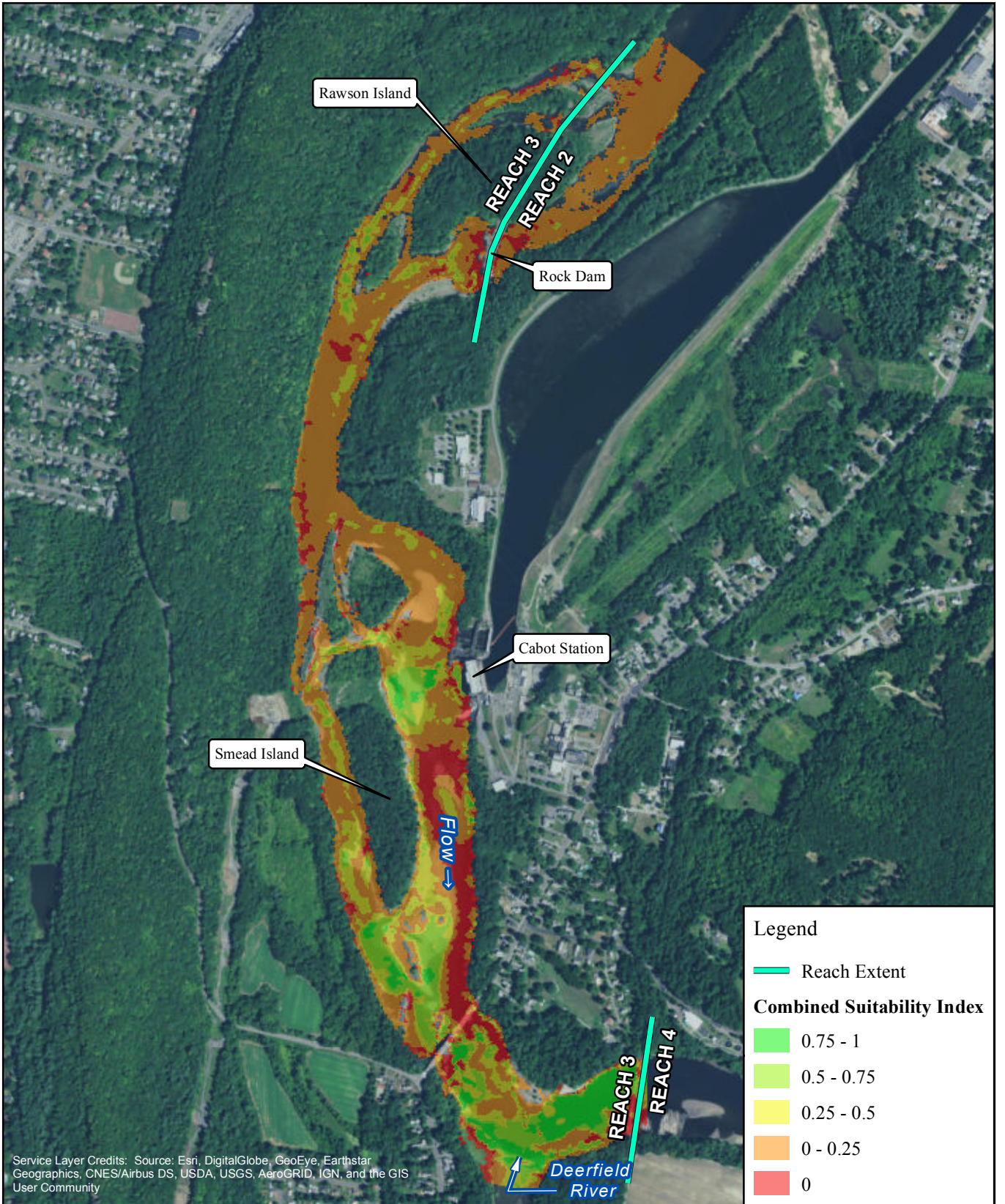
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Shortnose Sturgeon-Fry  
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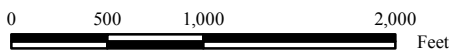
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**Combined Suitability Index**

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- 0 - 0.25
- 0



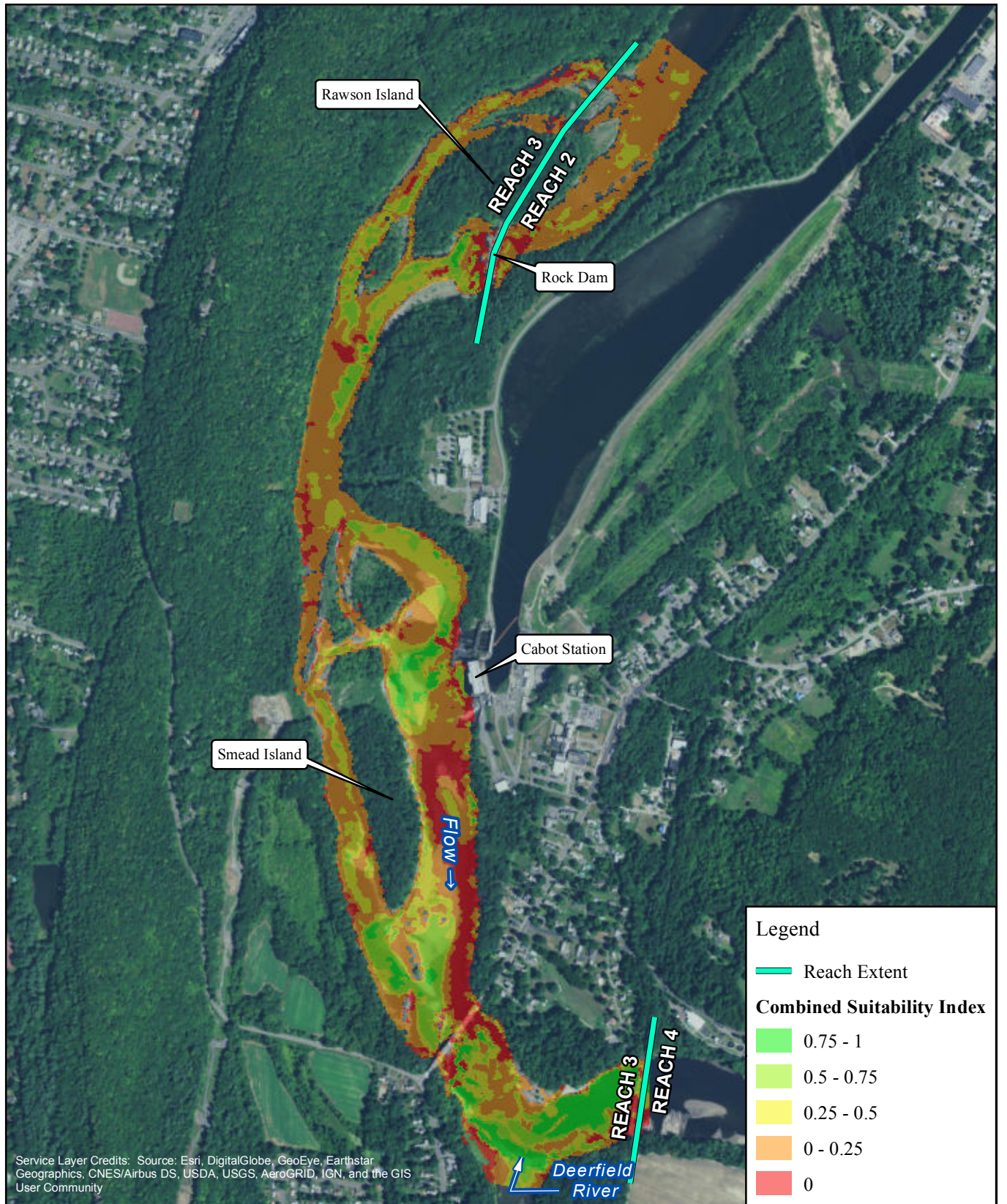
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**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Fry**  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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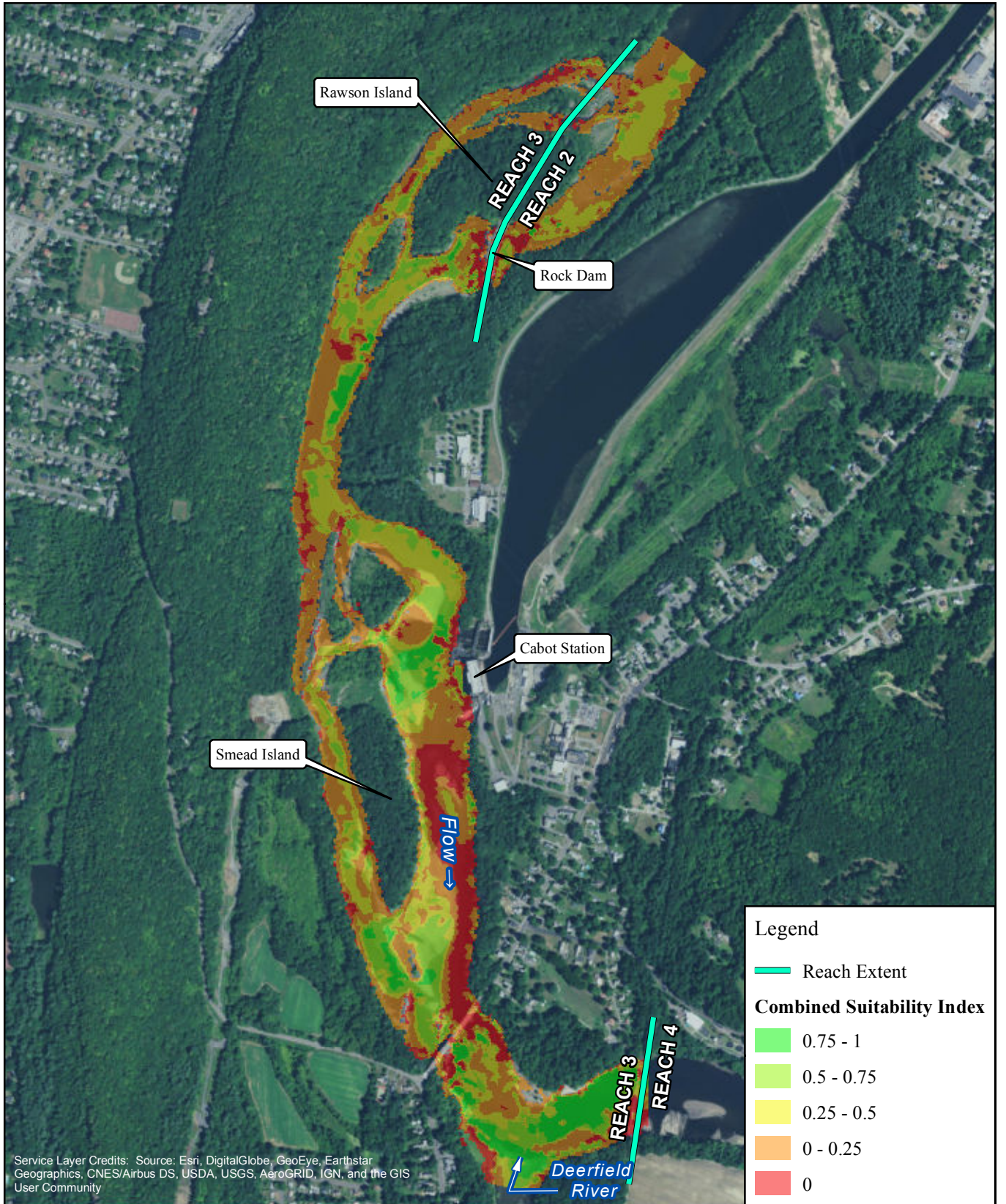
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Shortnose Sturgeon-Fry  
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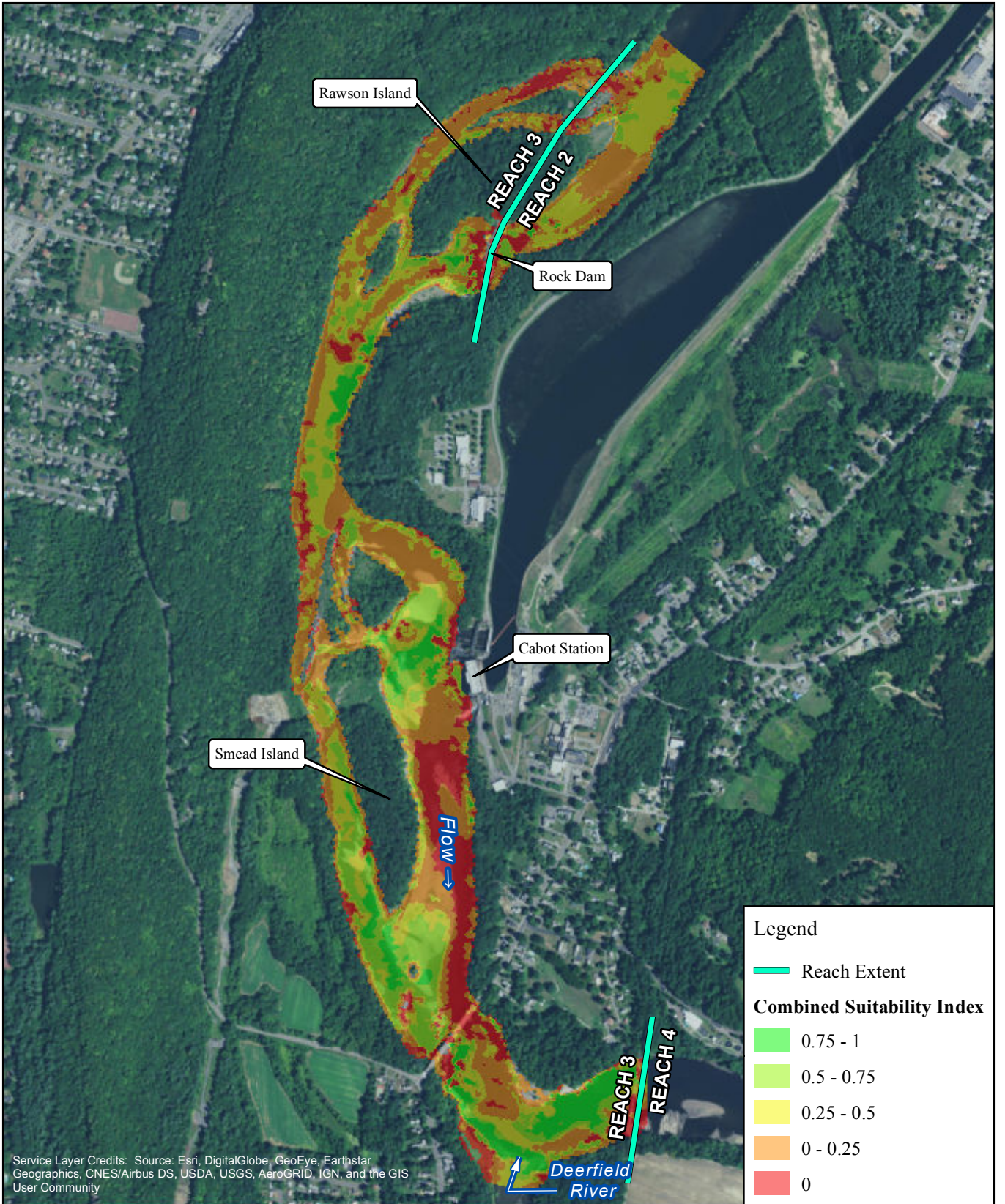
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Shortnose Sturgeon-Fry  
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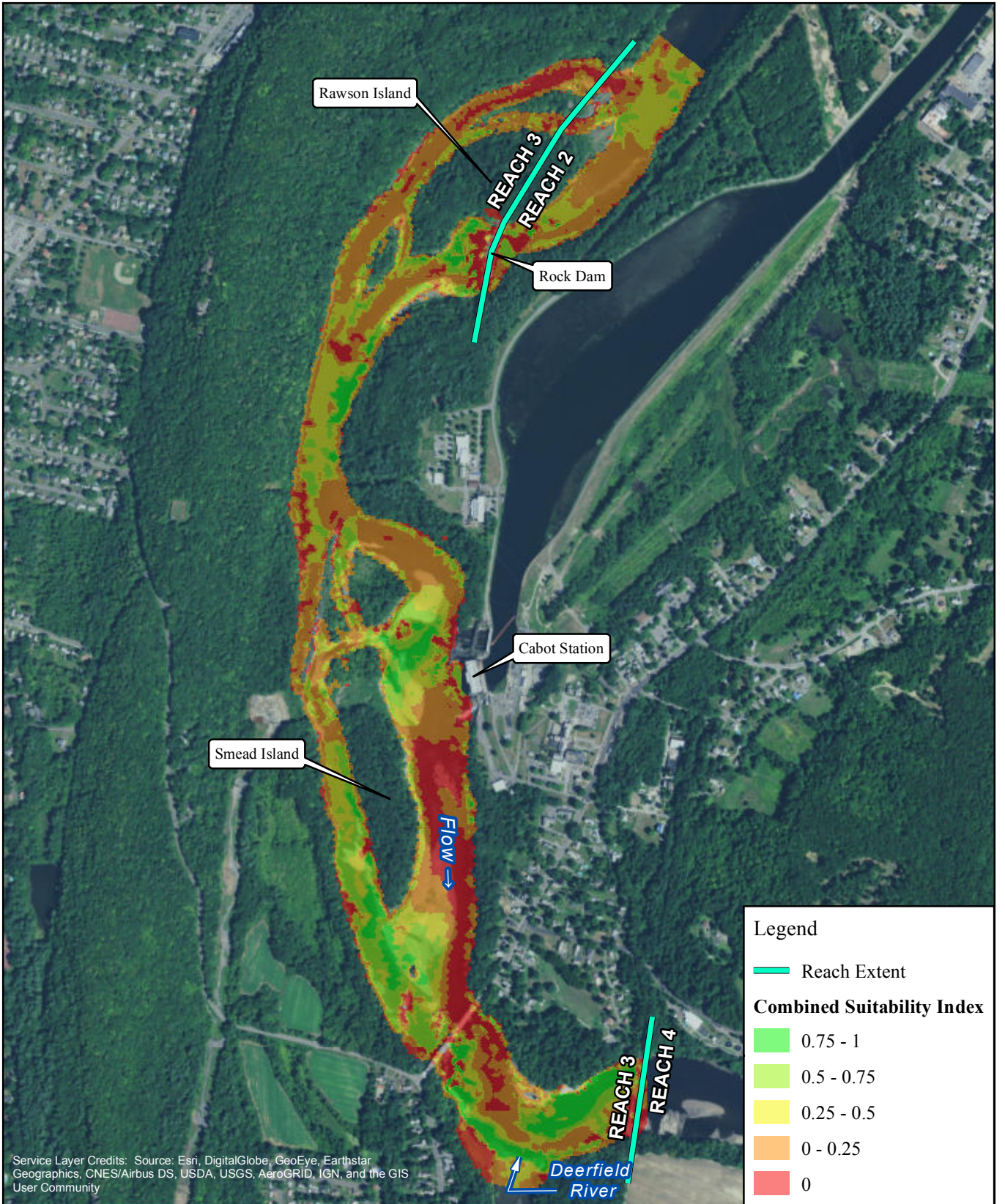
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Shortnose Sturgeon-Fry  
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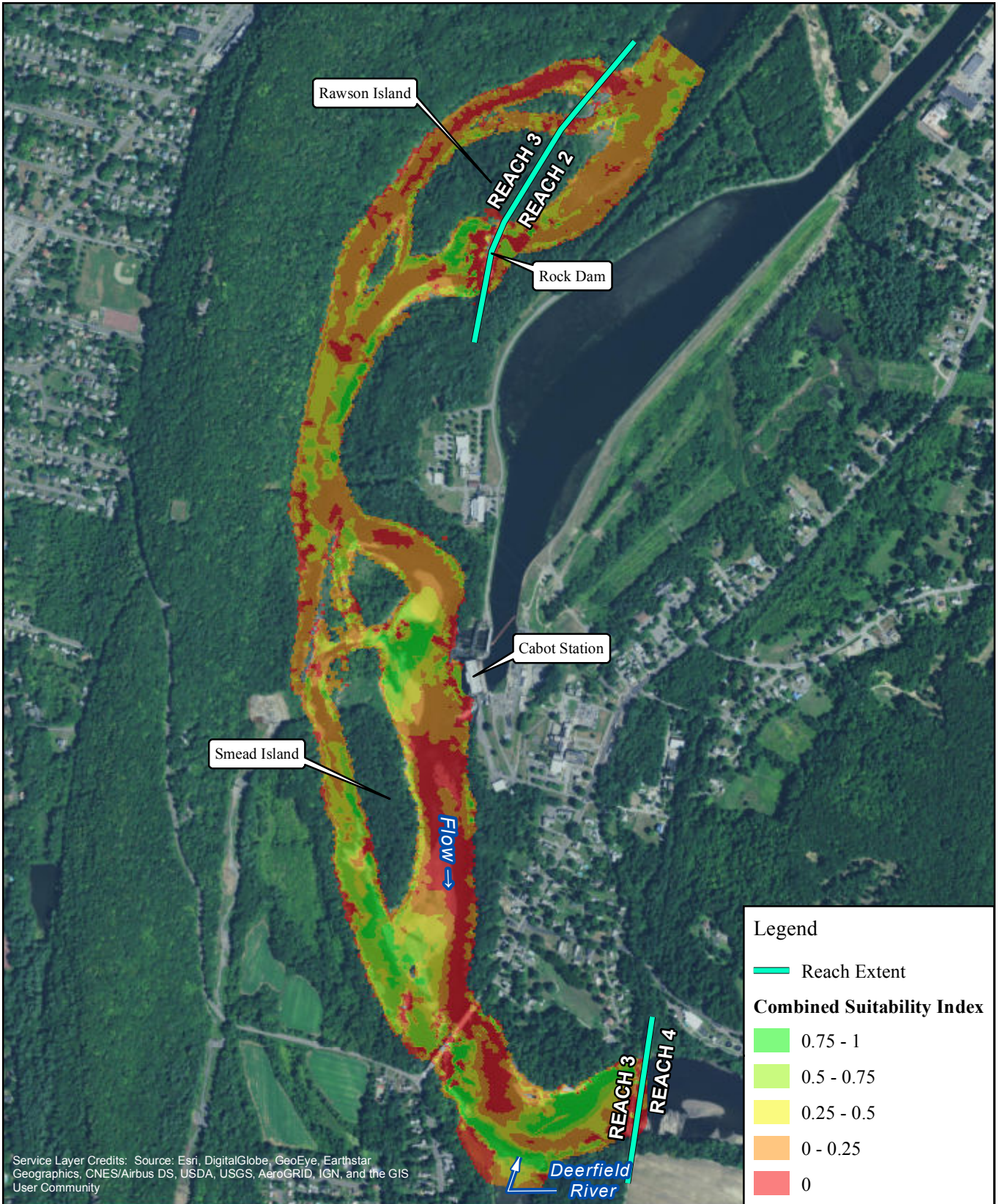
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 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Fry  
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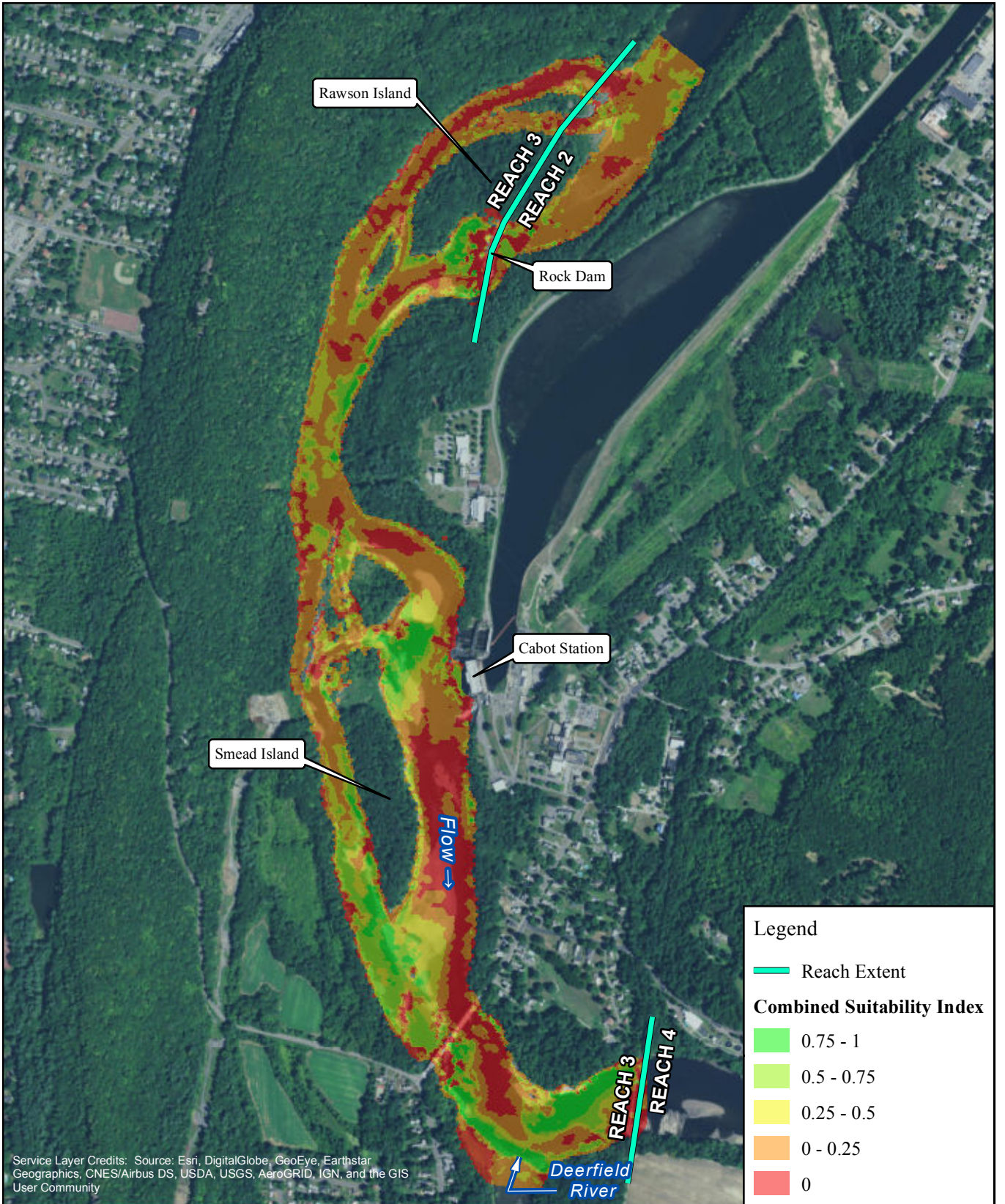
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Fry  
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**FIRSTLIGHT HYDRO GENERATING COMPANY**  
 Northfield Mountain Pumped Storage Project No. 2485  
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**RELICENSING STUDY 3.3.1**

**Shortnose Sturgeon-Fry**  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

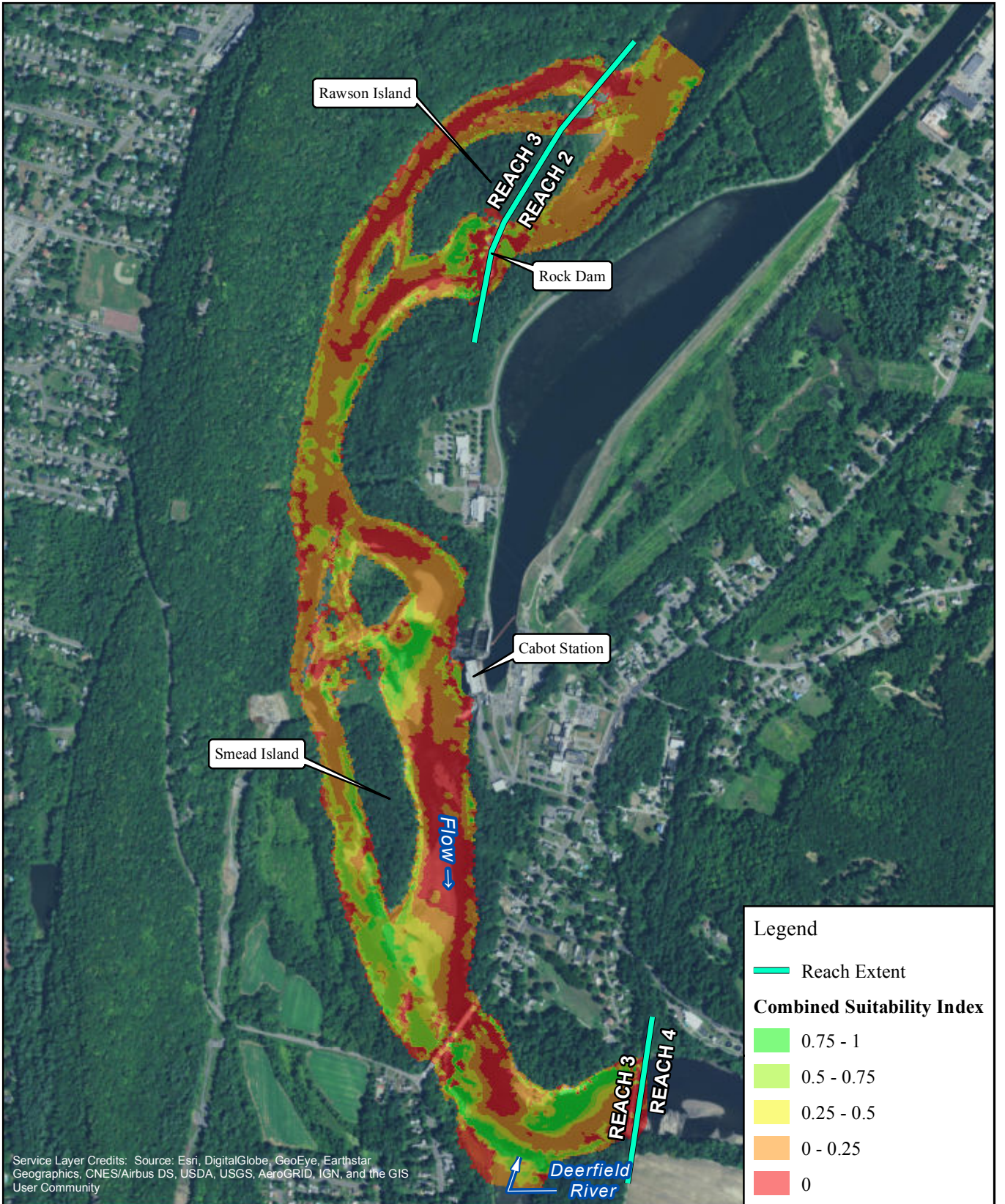
**FirstLight™**  
 Power Resources

N

0 500 1,000 2,000 Feet

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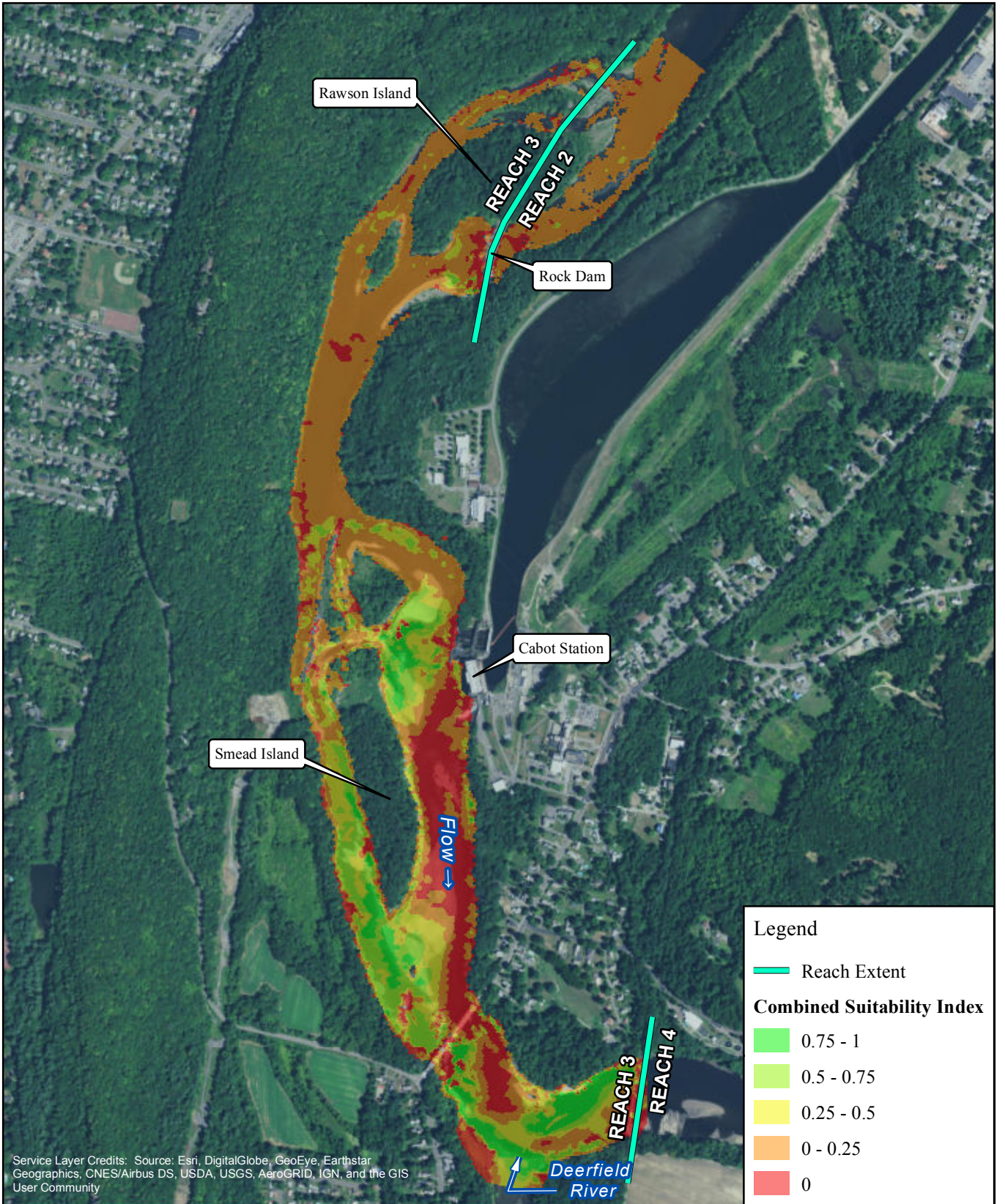
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Shortnose Sturgeon-Fry  
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**Legend**

- Reach Extent

**Combined Suitability Index**

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- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

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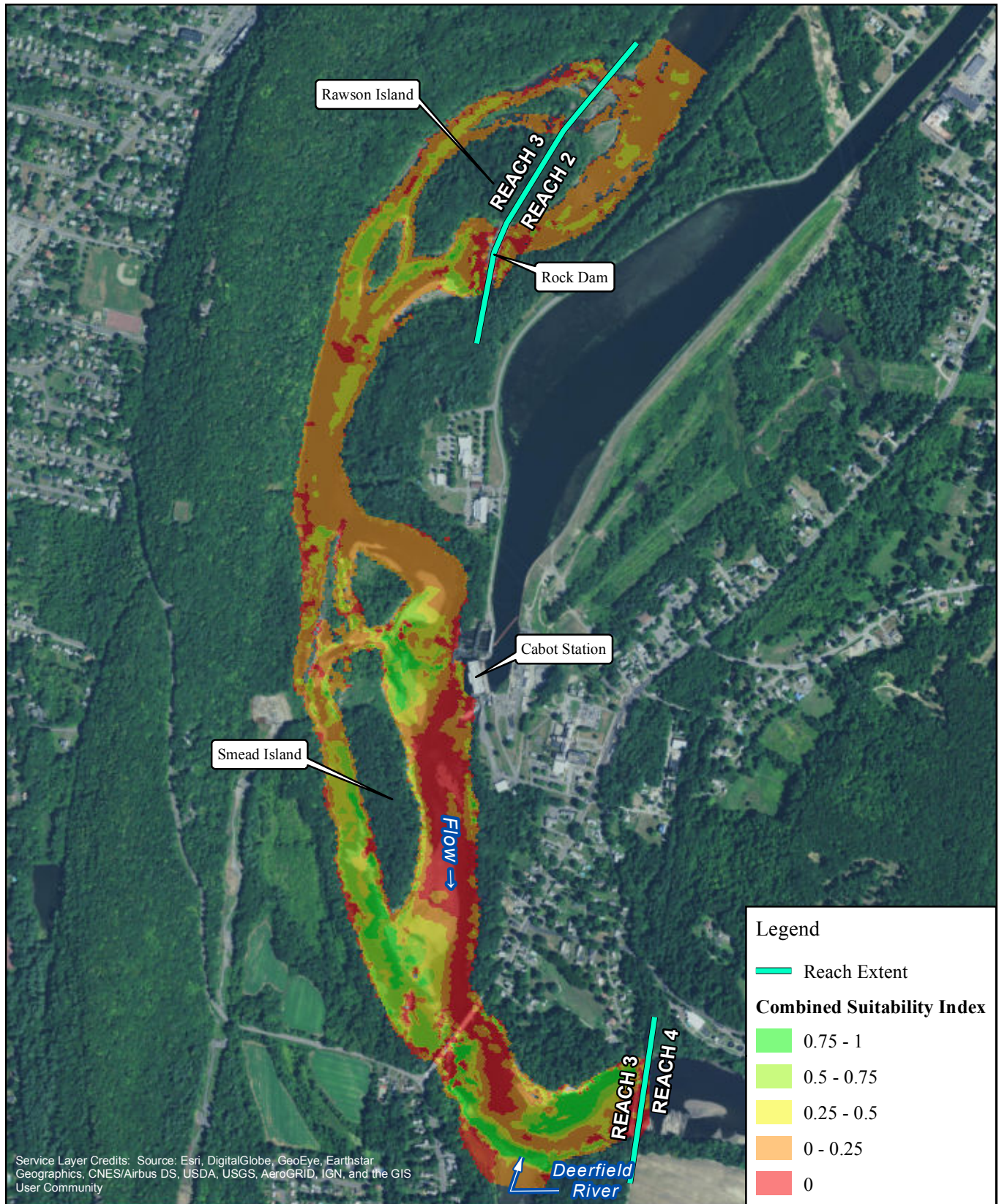
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 Northfield Mountain Pumped Storage Project No. 2485  
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**RELICENSING STUDY 3.3.1**

**Shortnose Sturgeon-Fry**  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet

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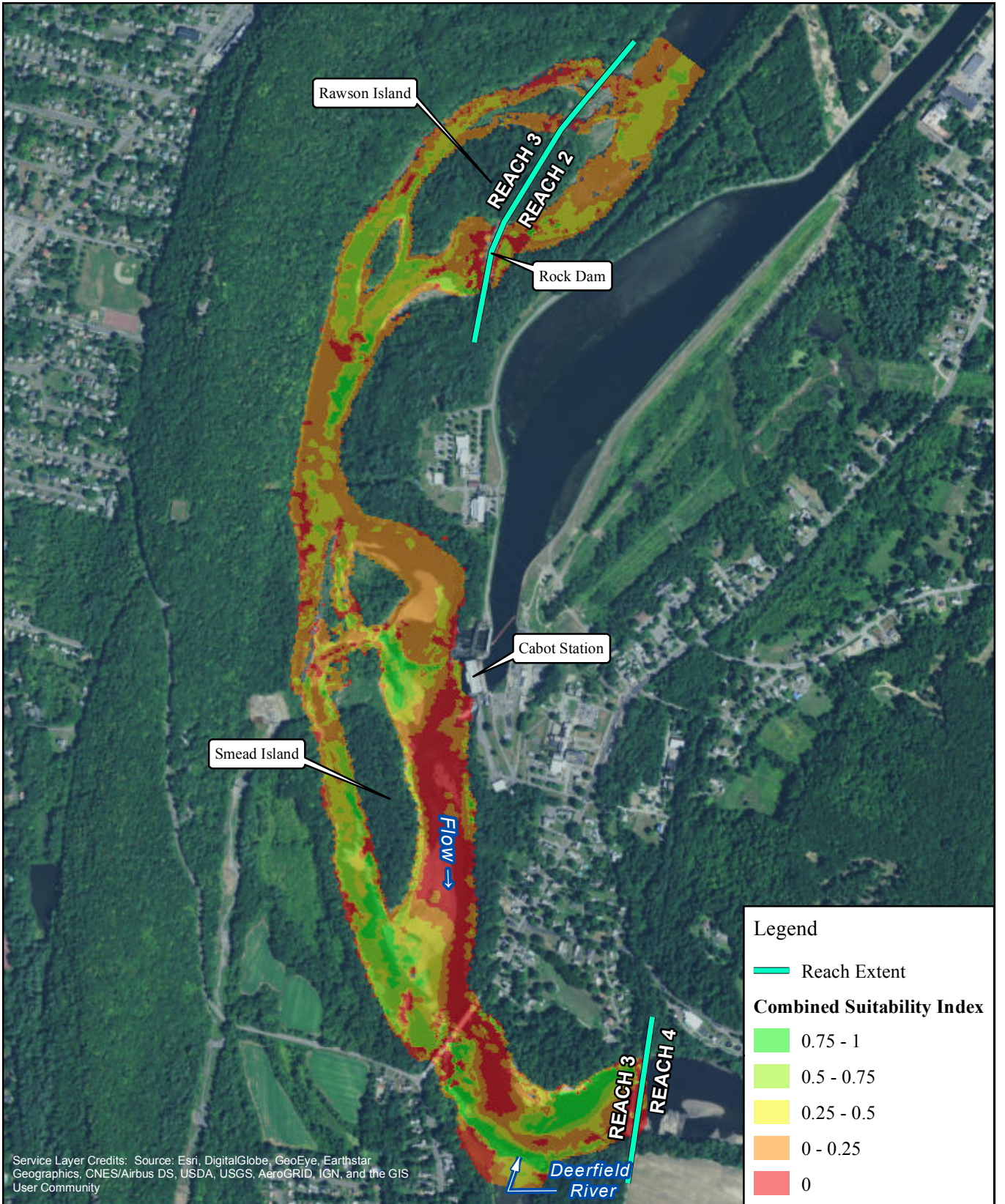
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Shortnose Sturgeon-Fry  
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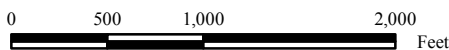




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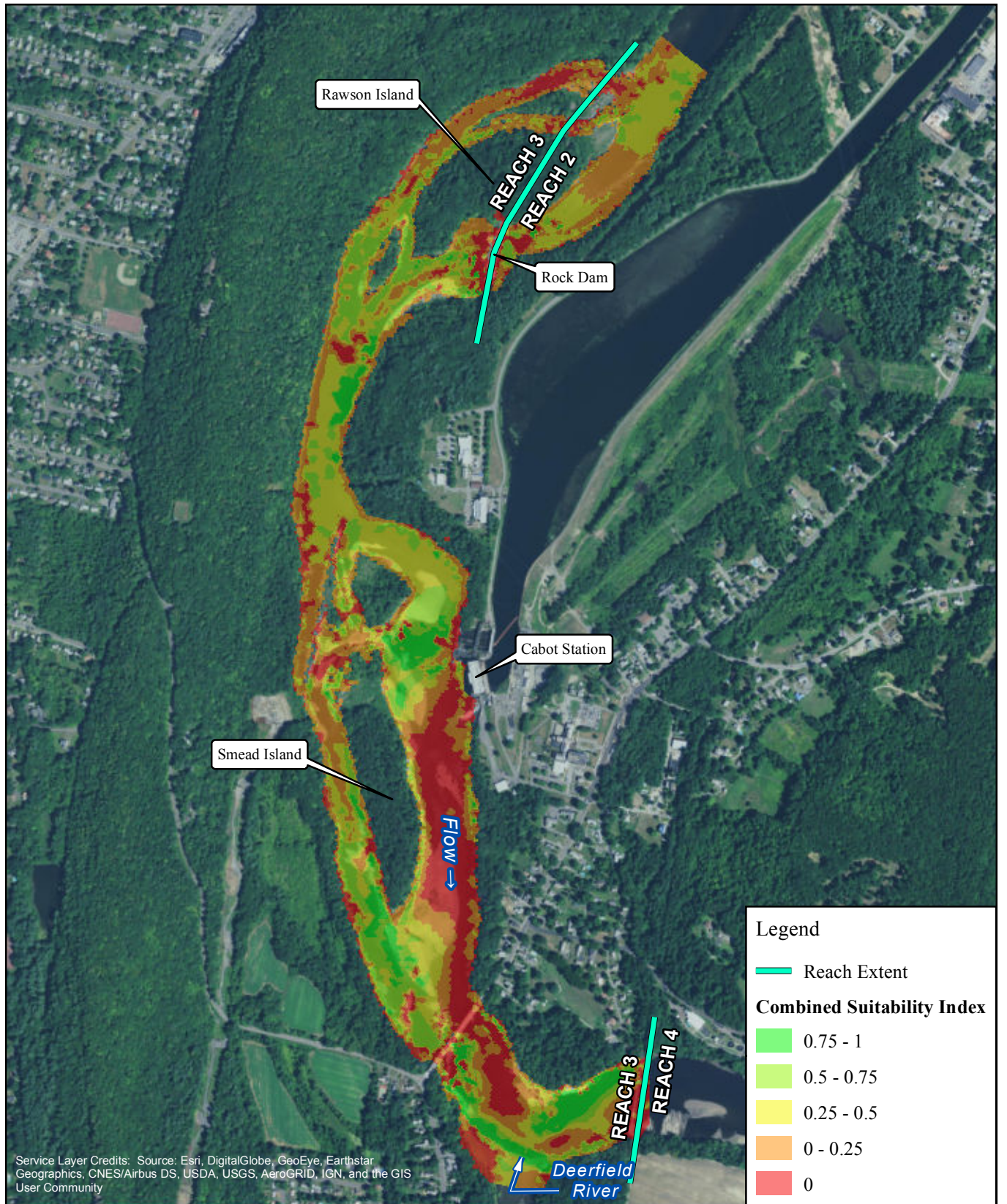
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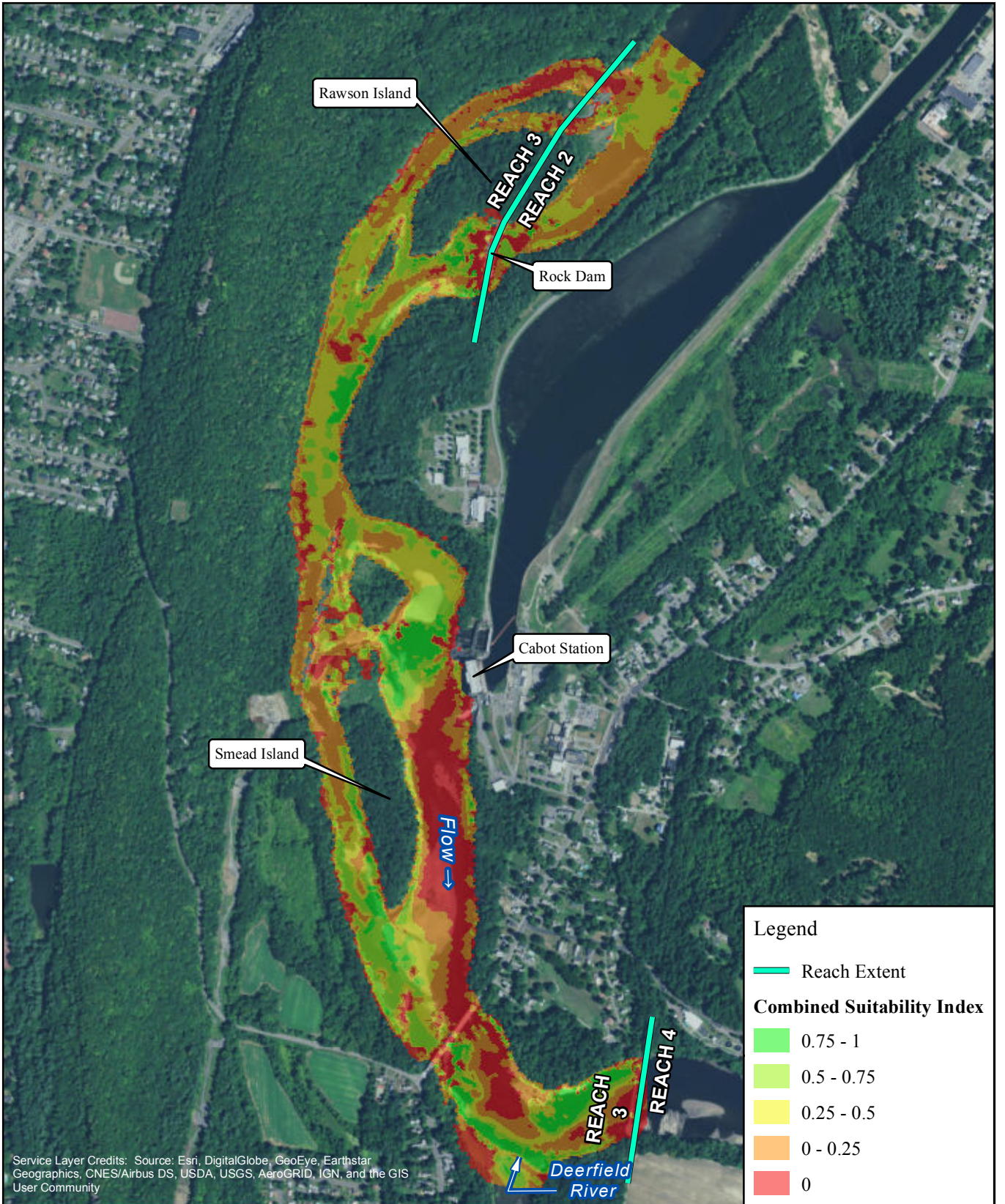
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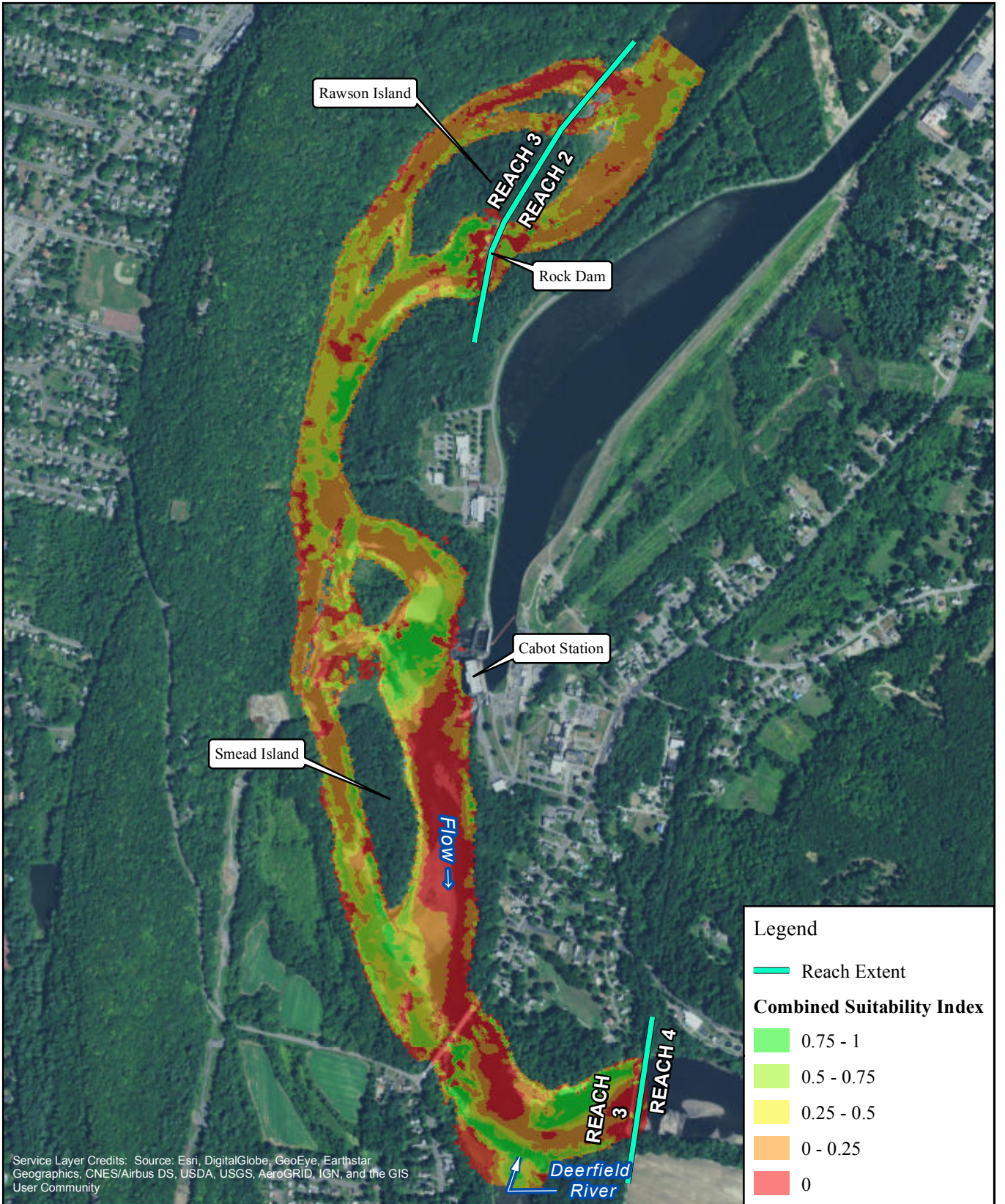
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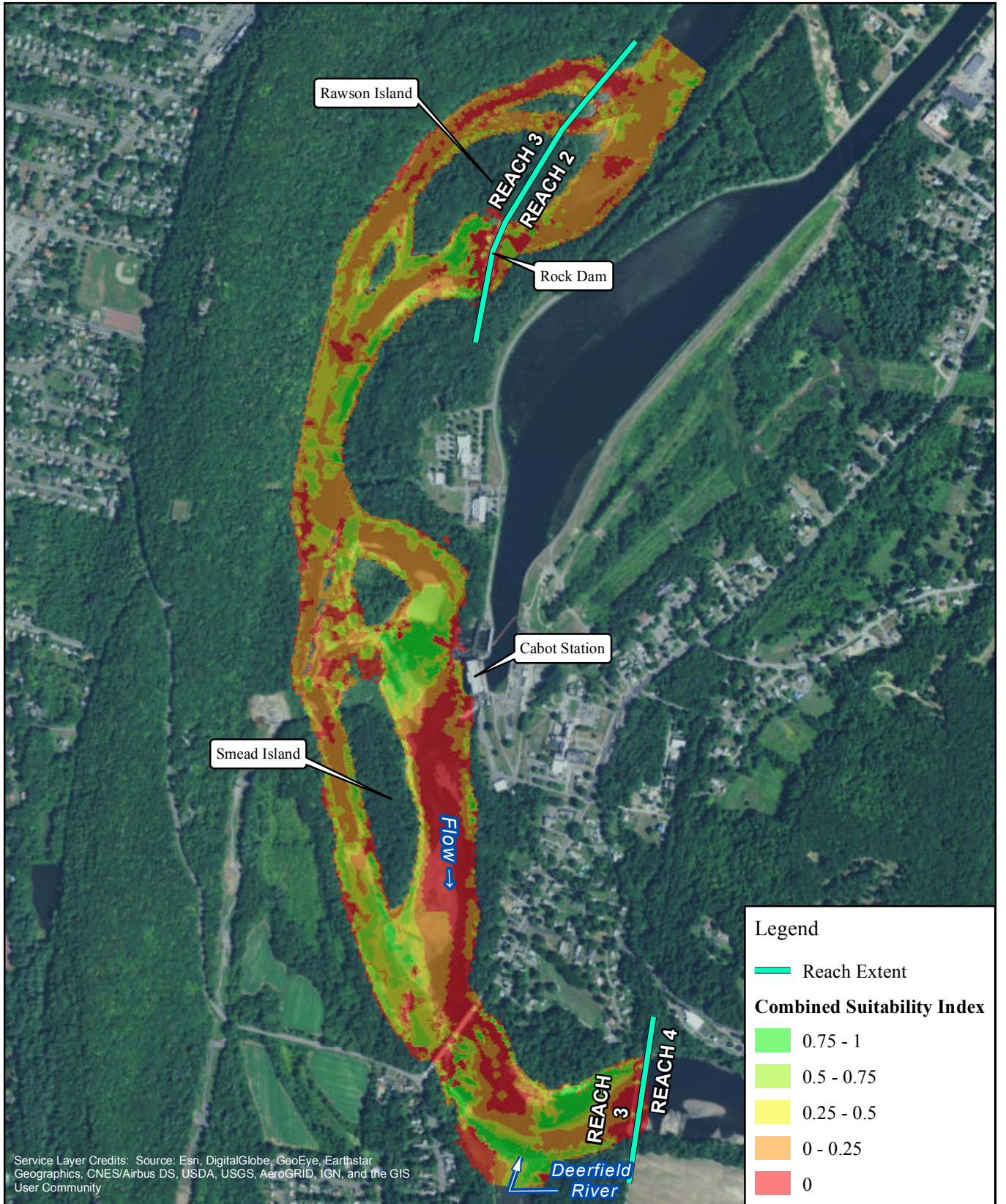
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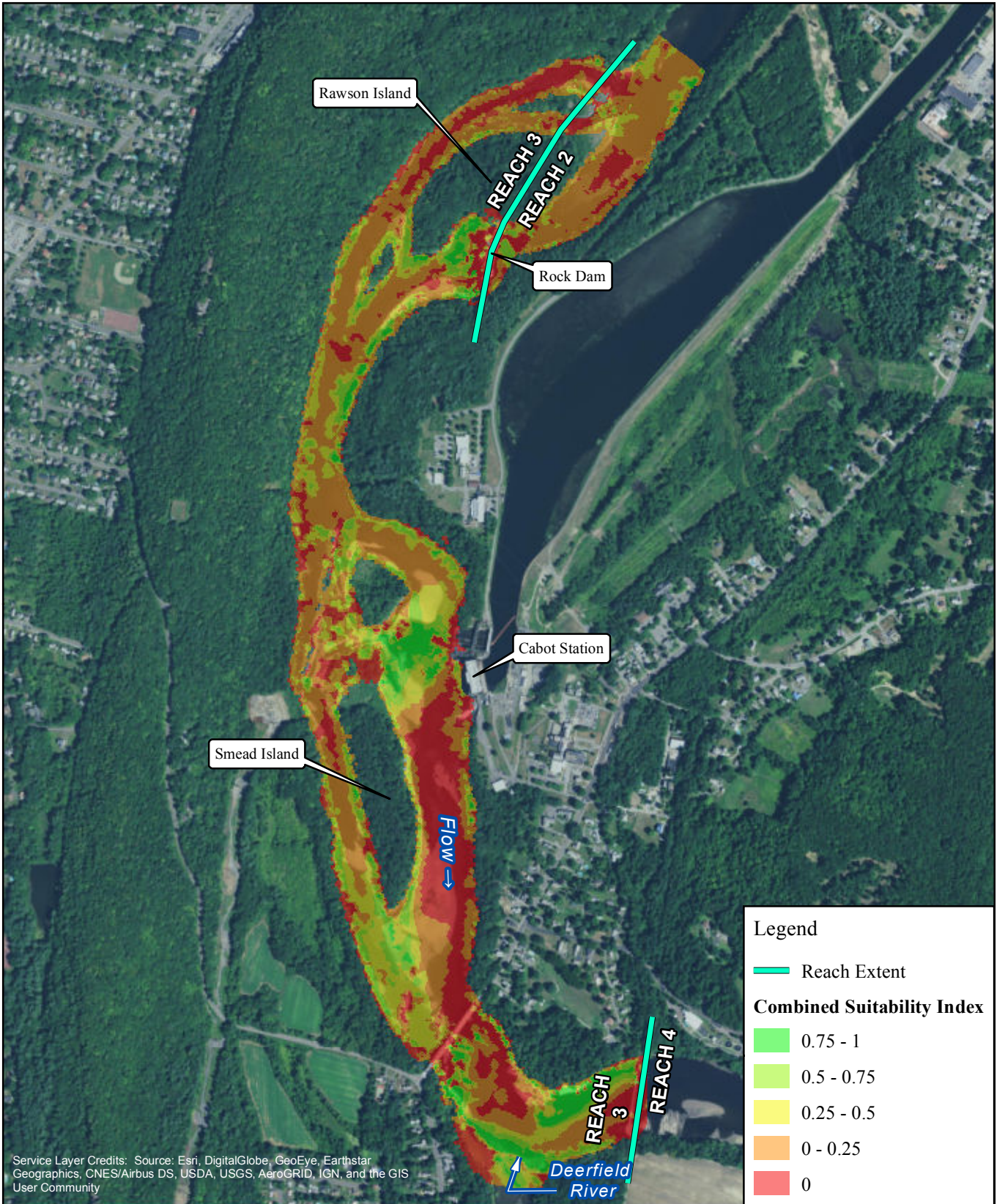
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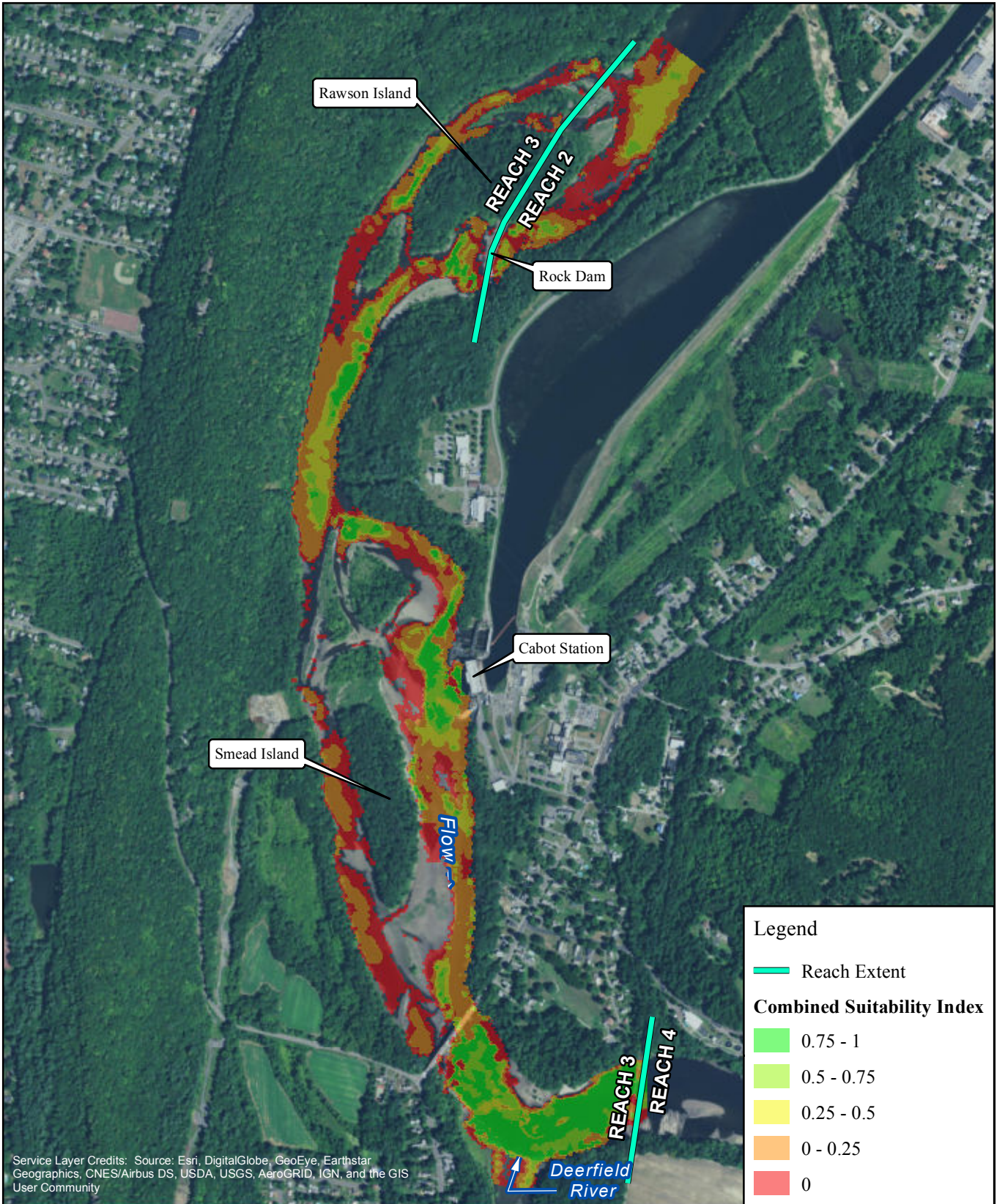
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**Legend**

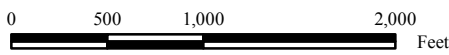
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**Combined Suitability Index**

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- 0



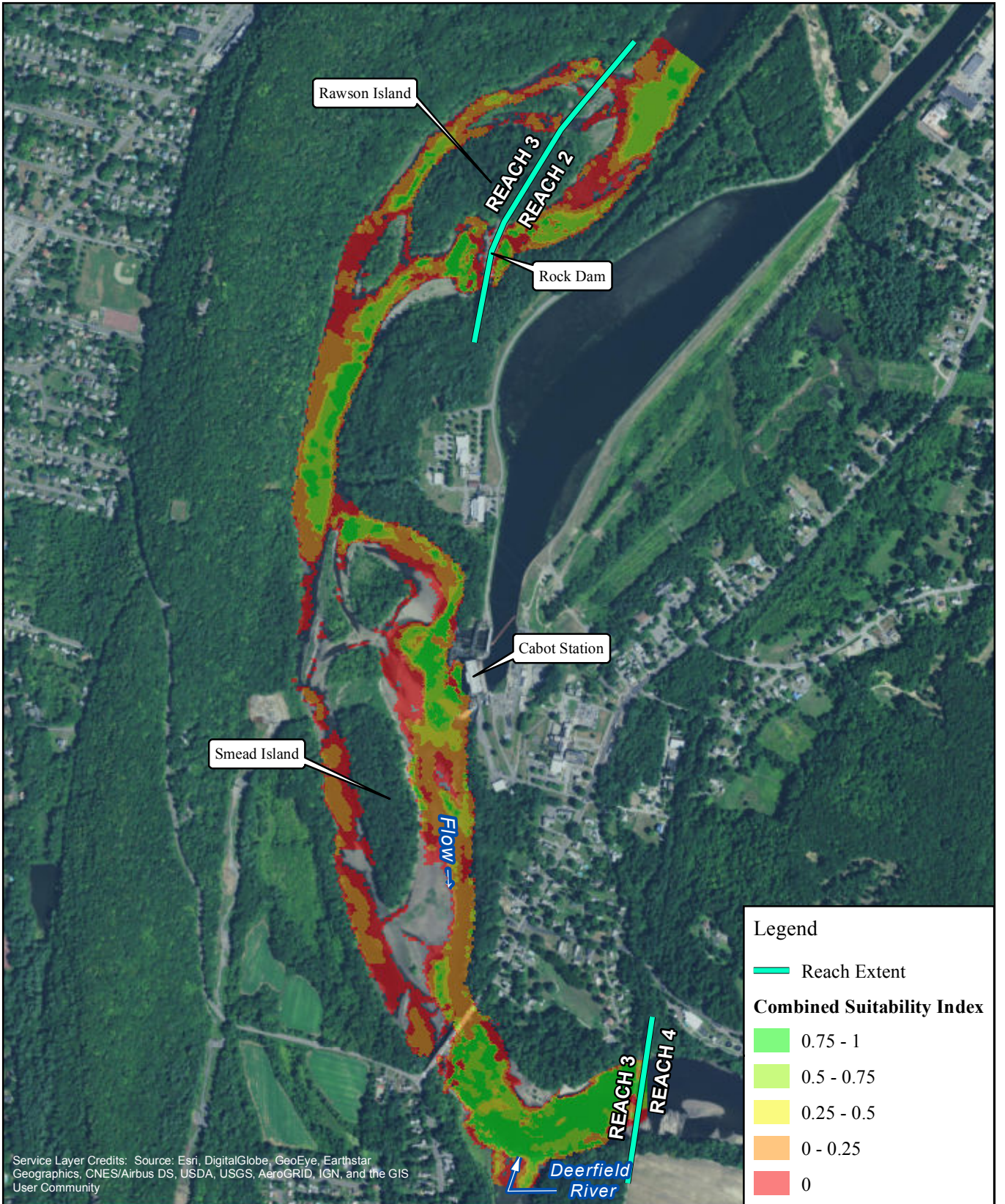
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**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Juvenile**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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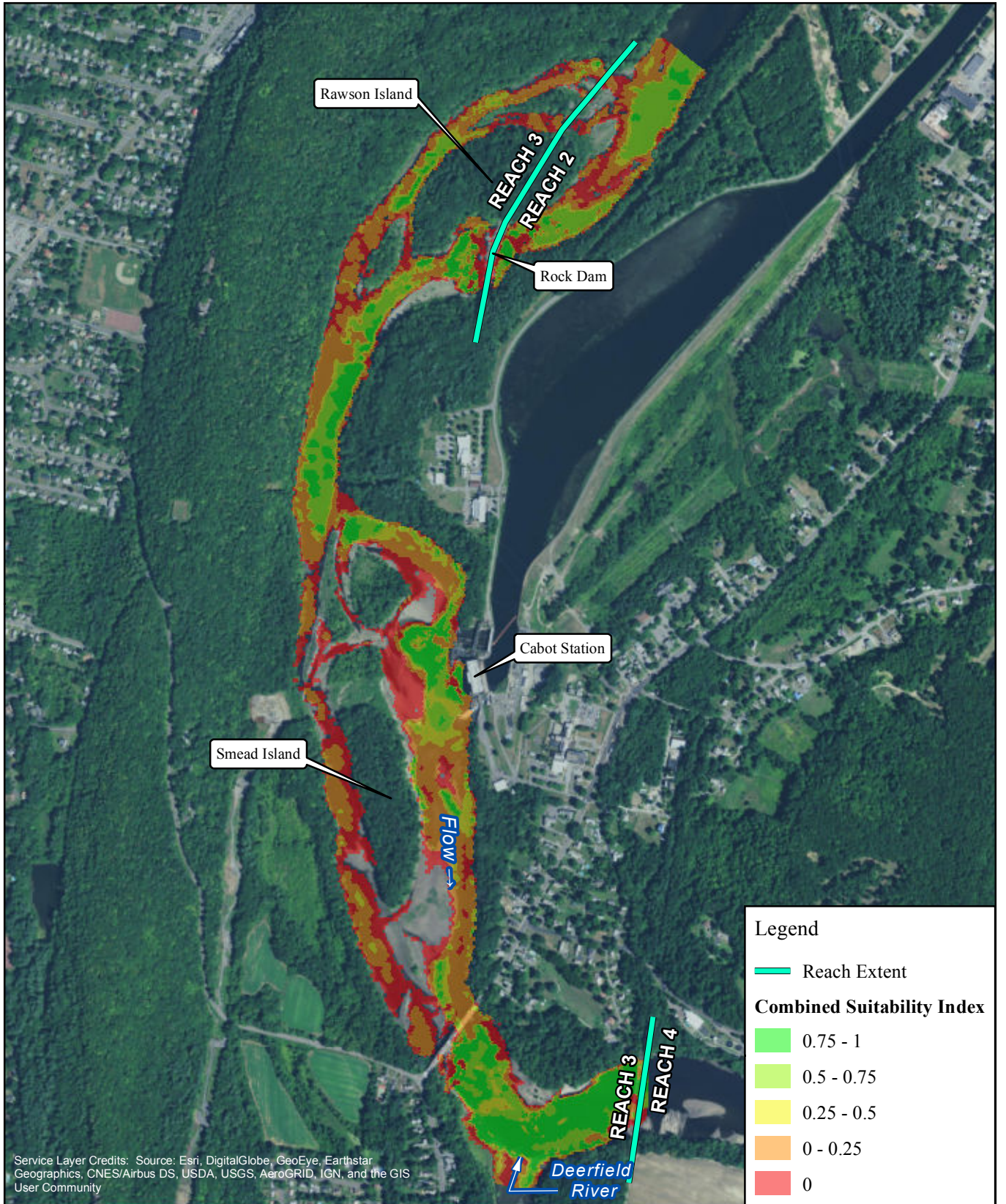
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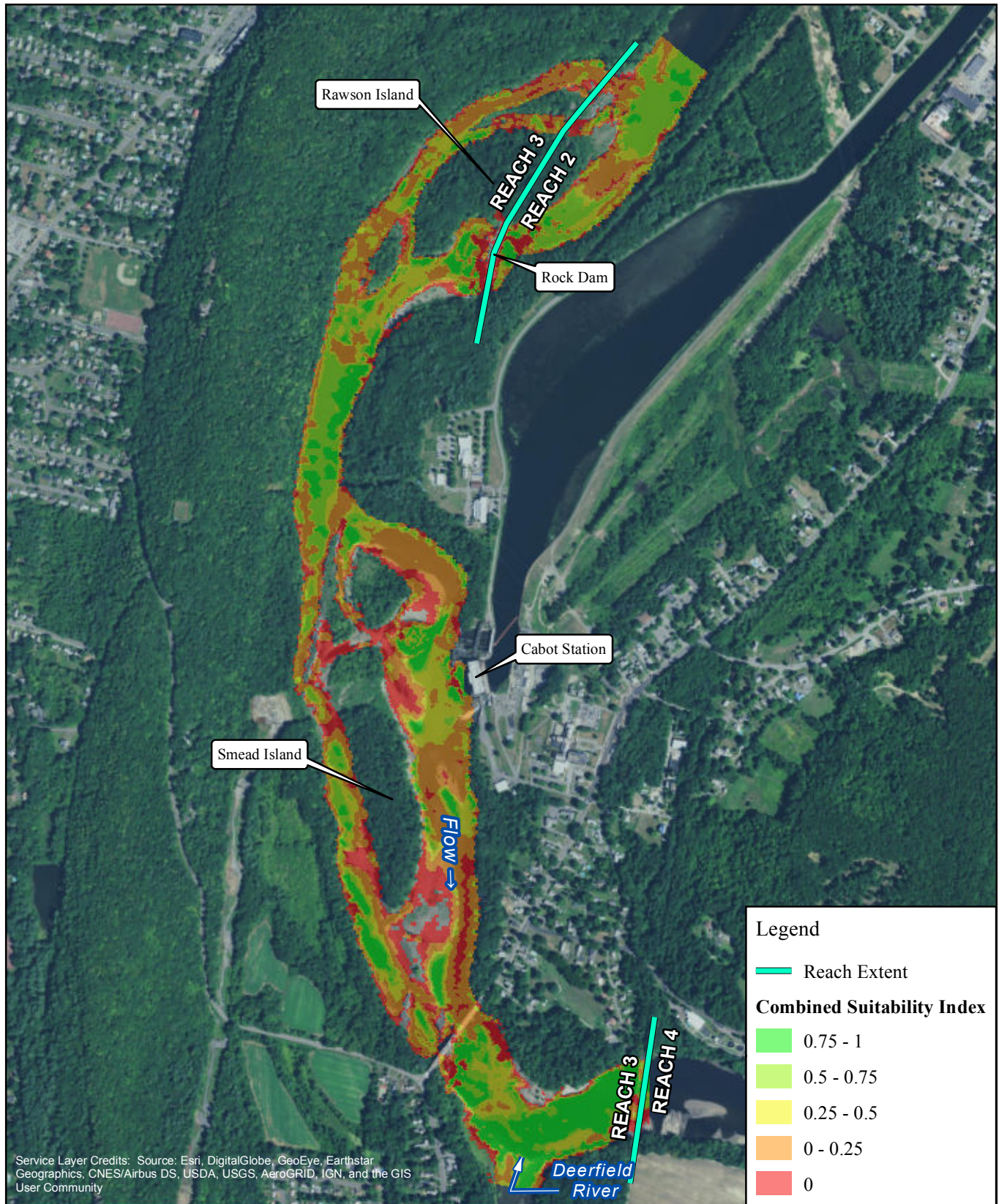
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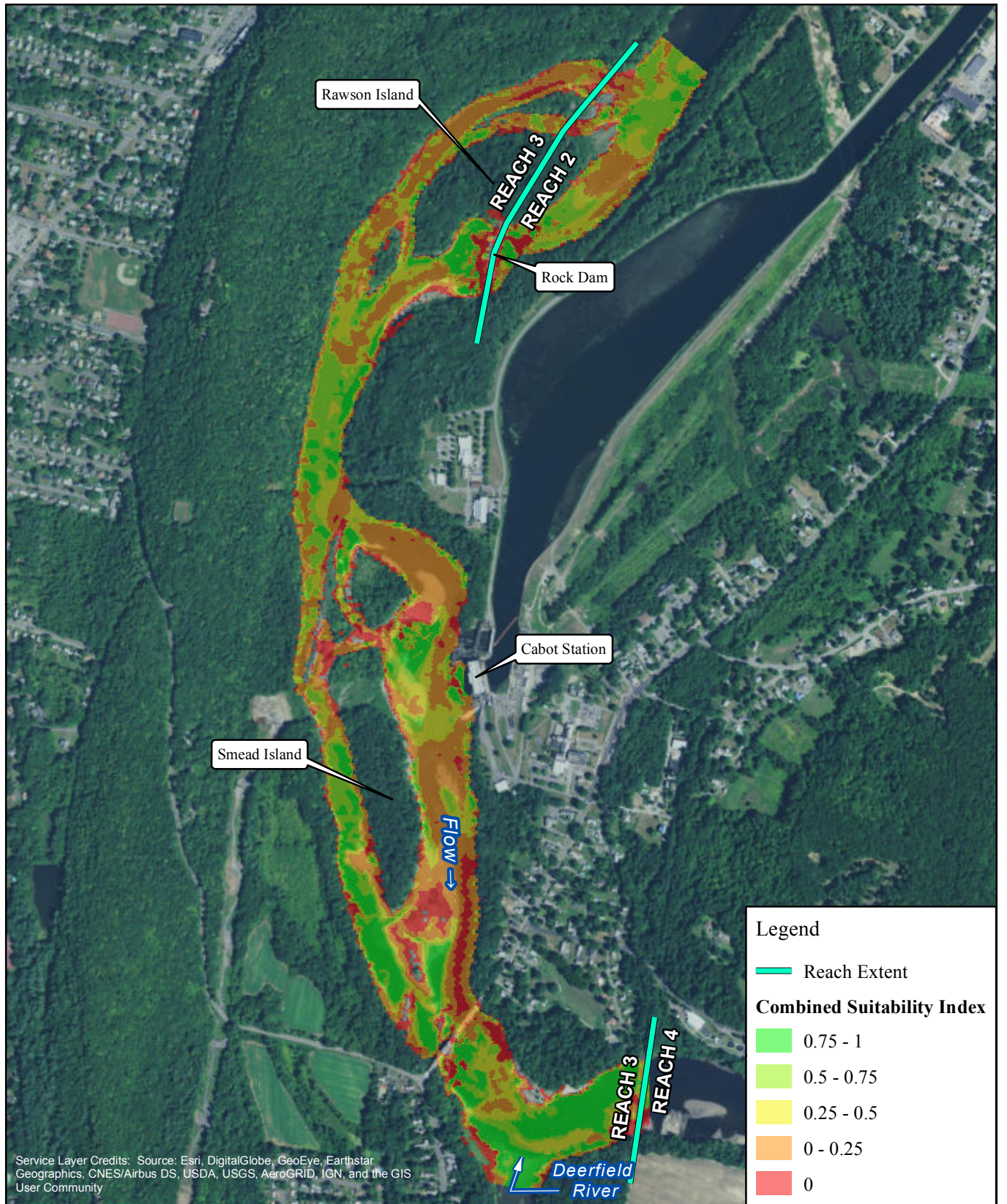
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 Deerfield Flow: 200 cfs

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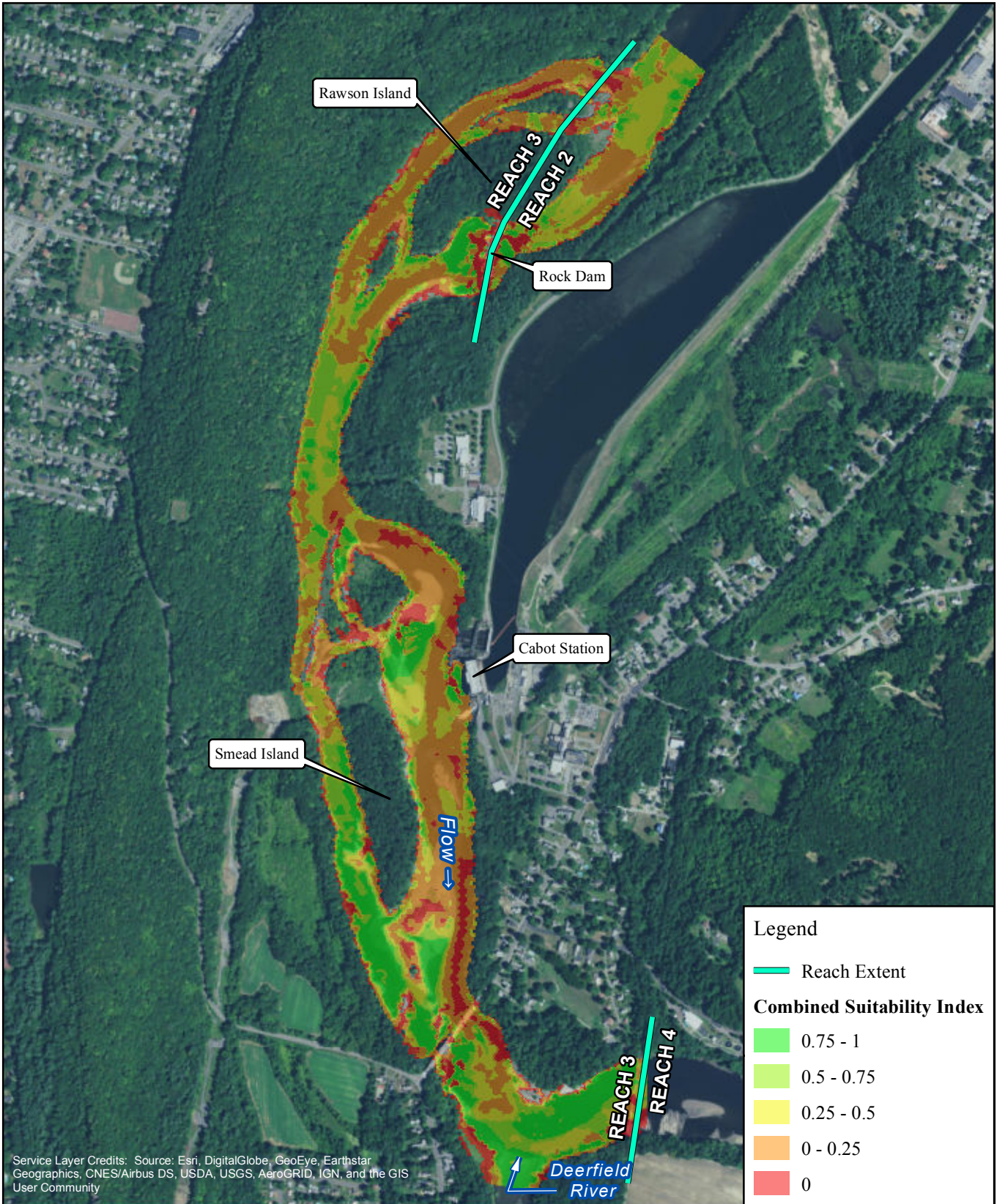
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Juvenile  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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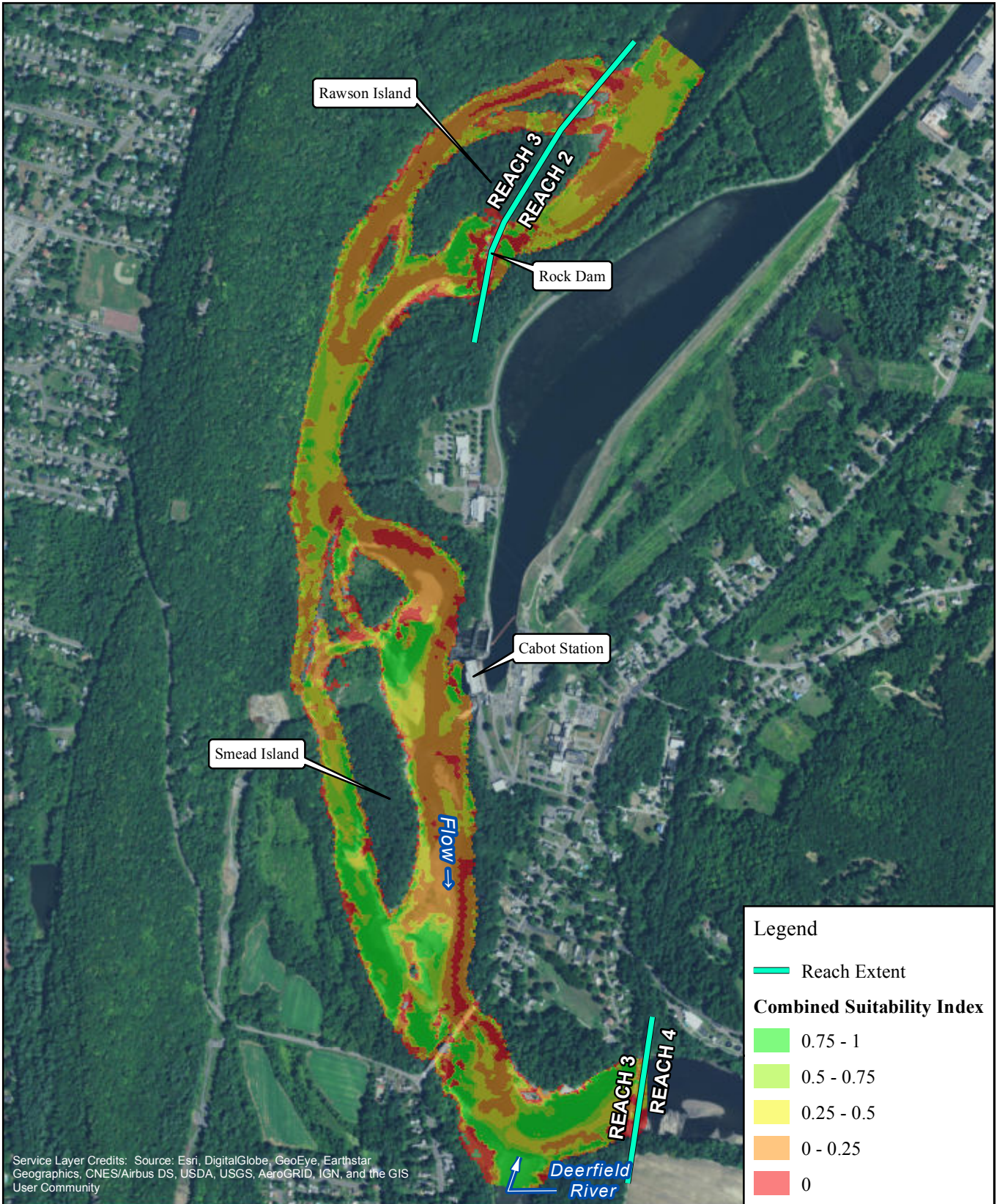
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 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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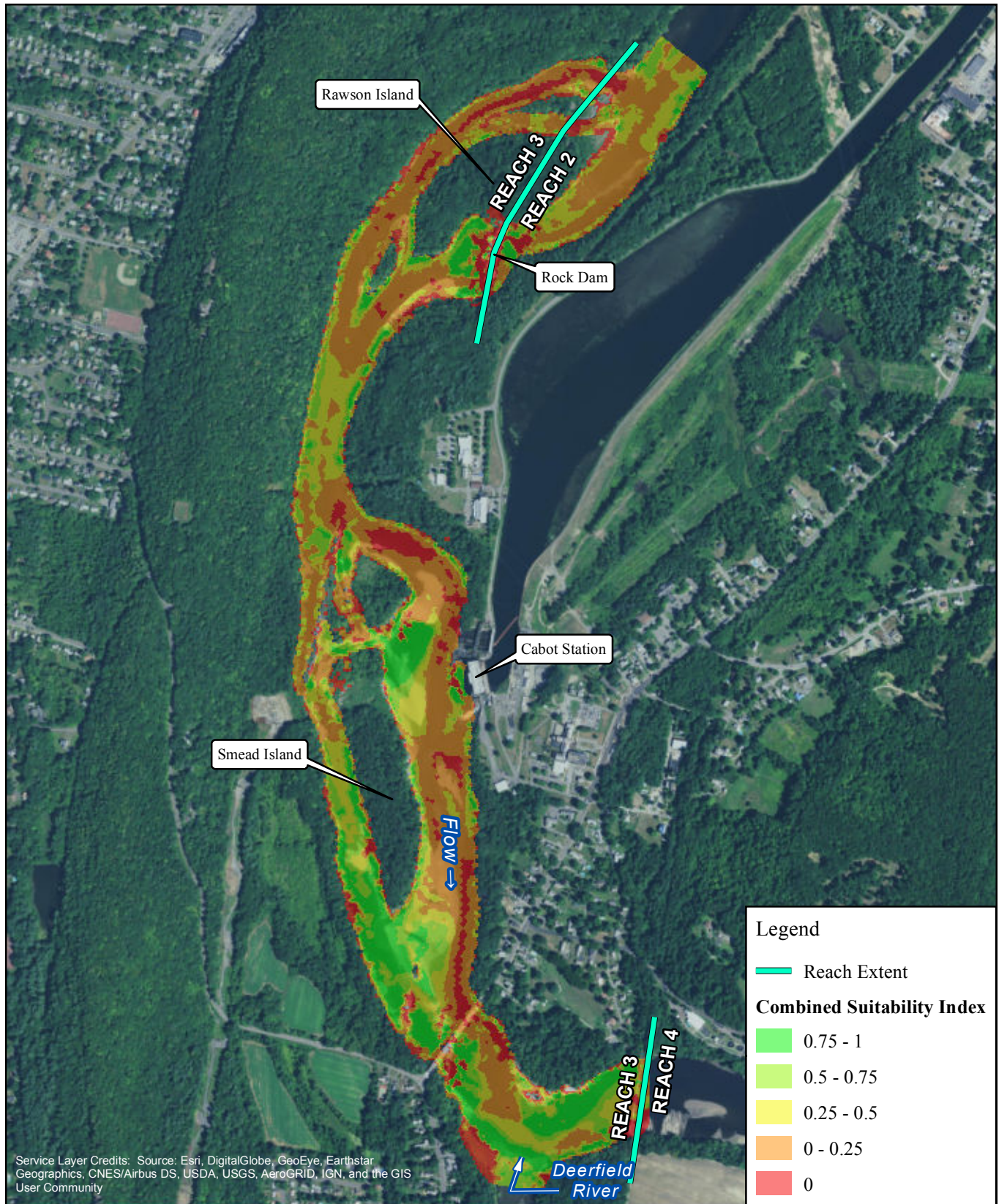
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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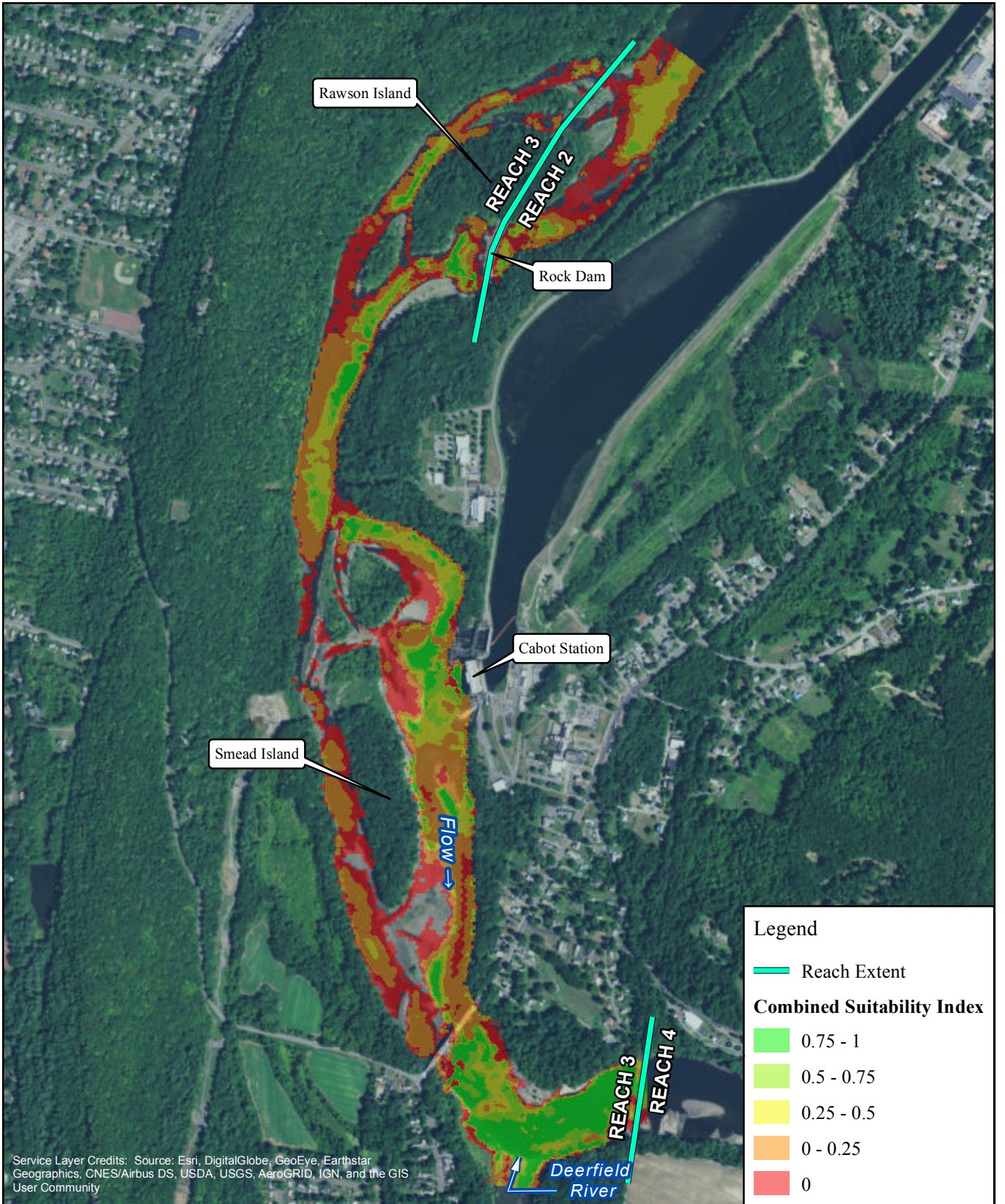
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Shortnose Sturgeon-Juvenile  
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 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

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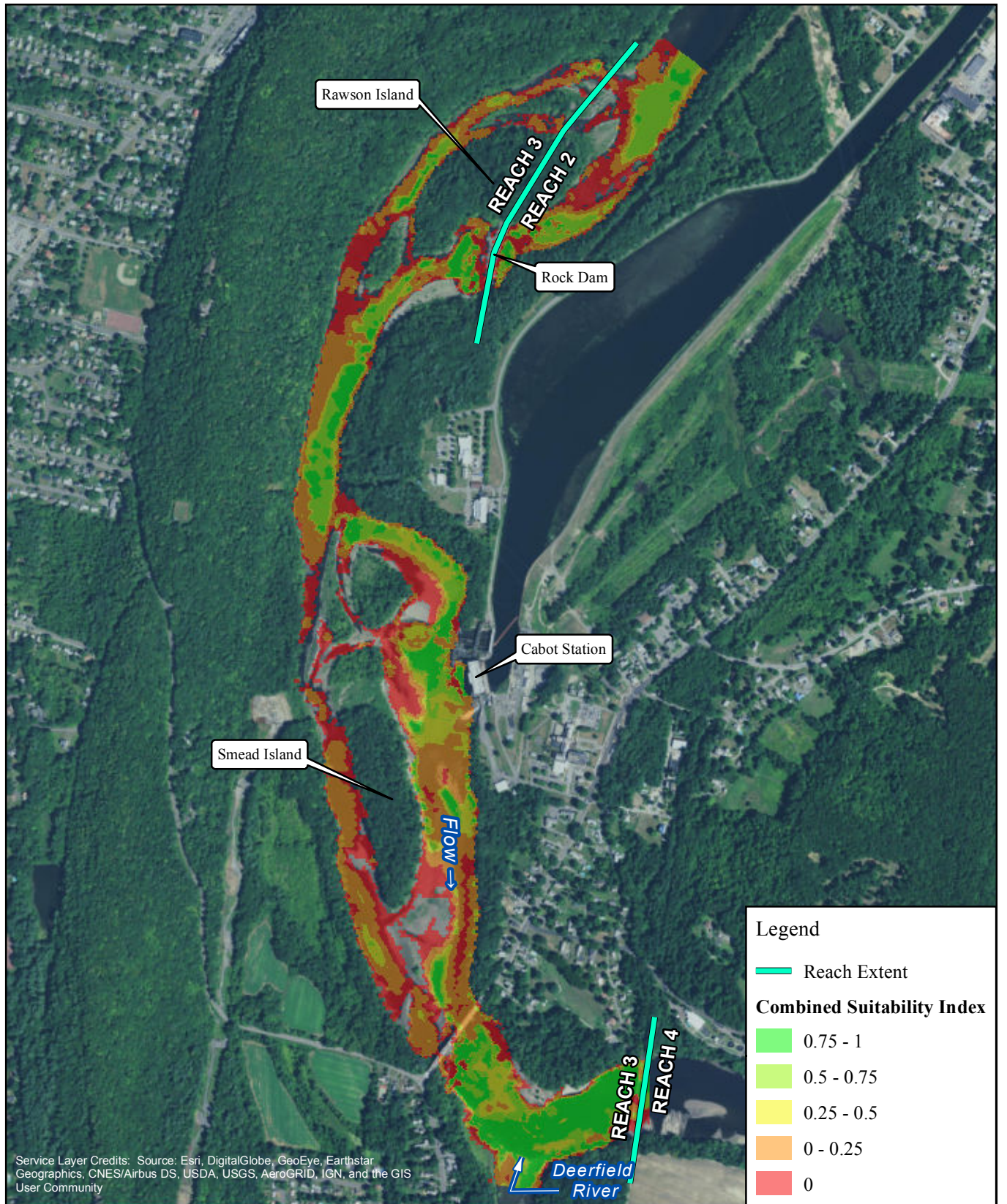
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

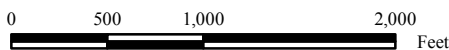




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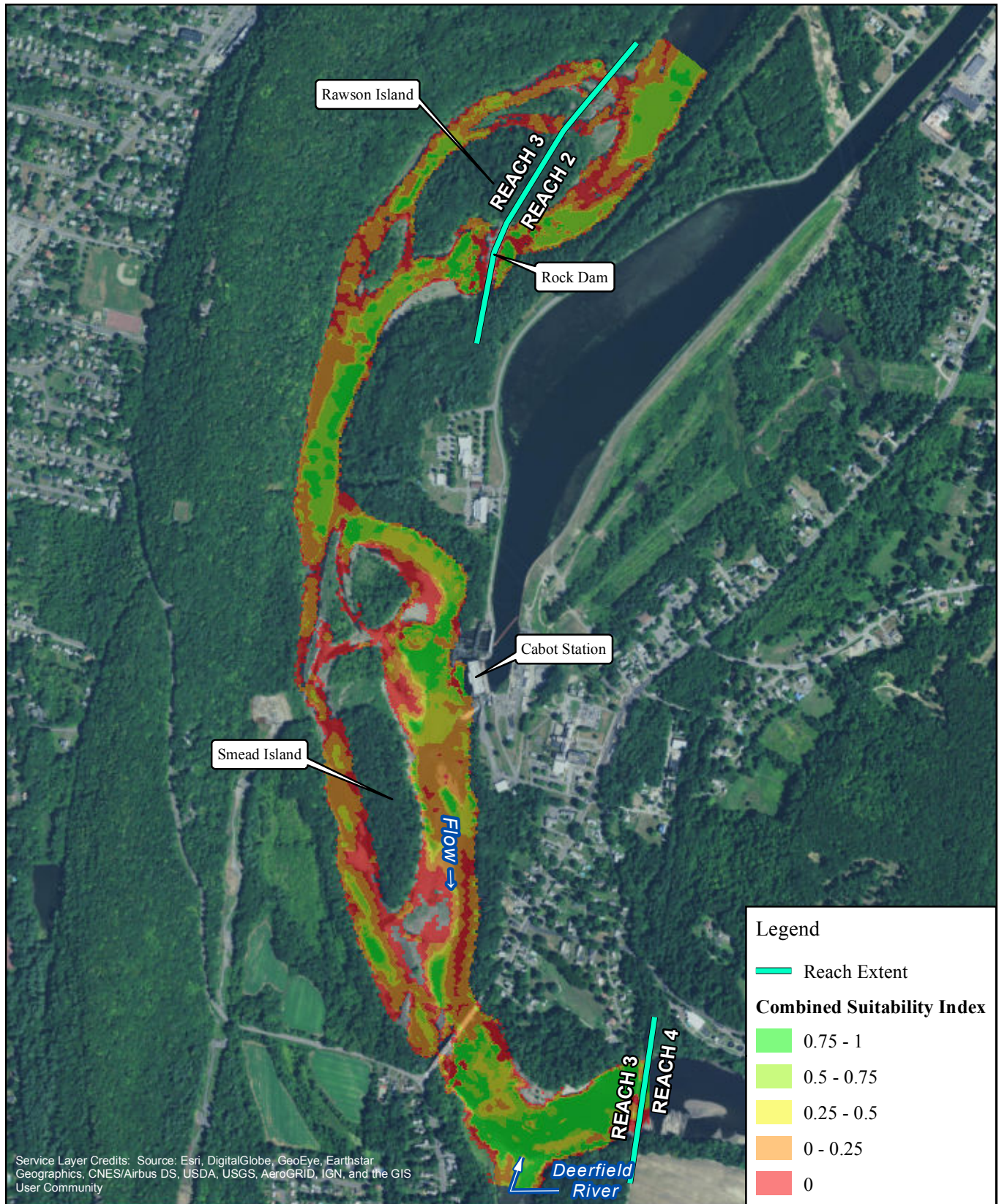
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs


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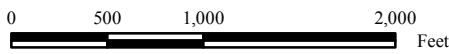




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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



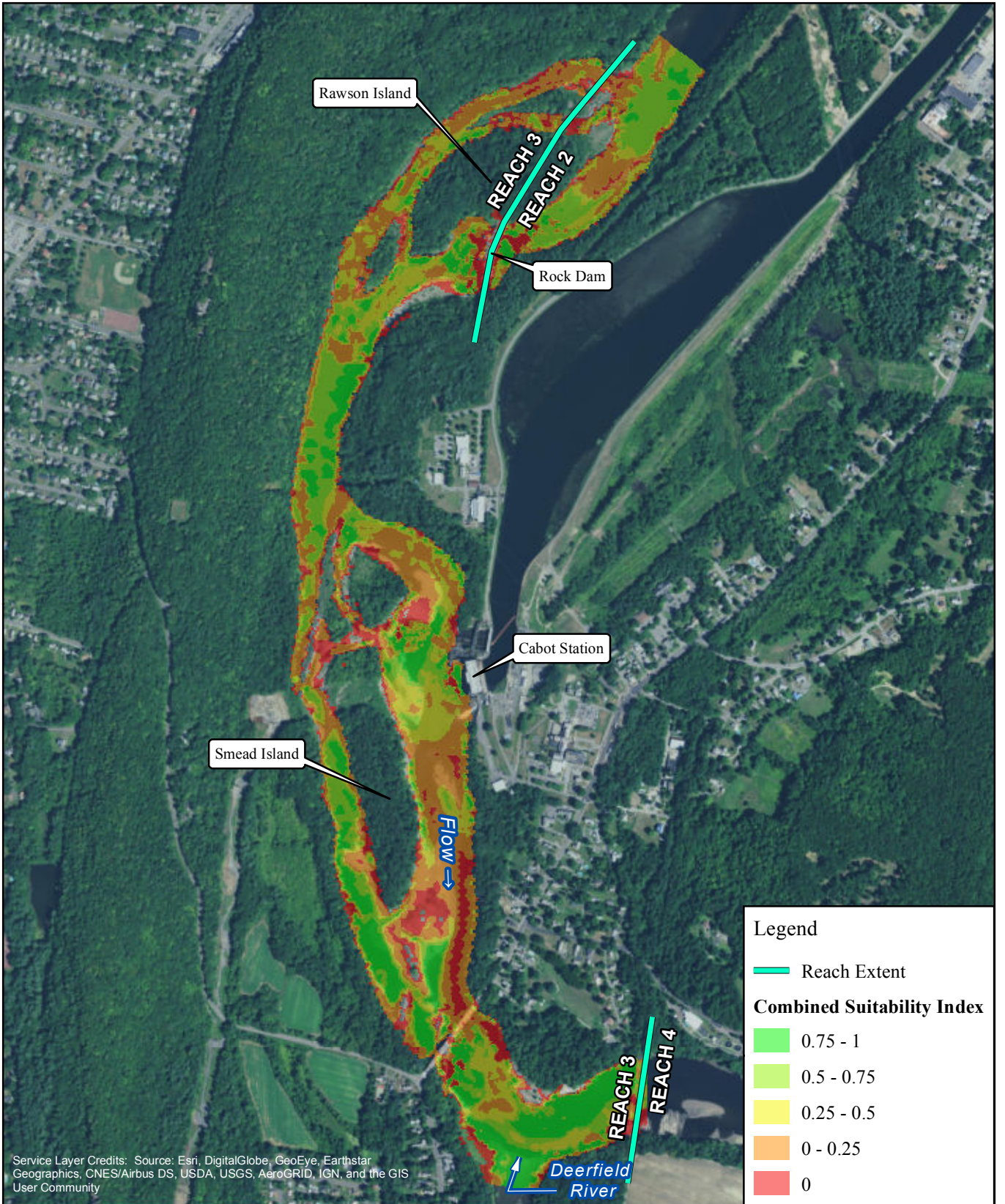




**Shortnose Sturgeon-Juvenile**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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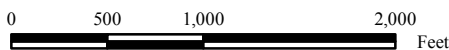




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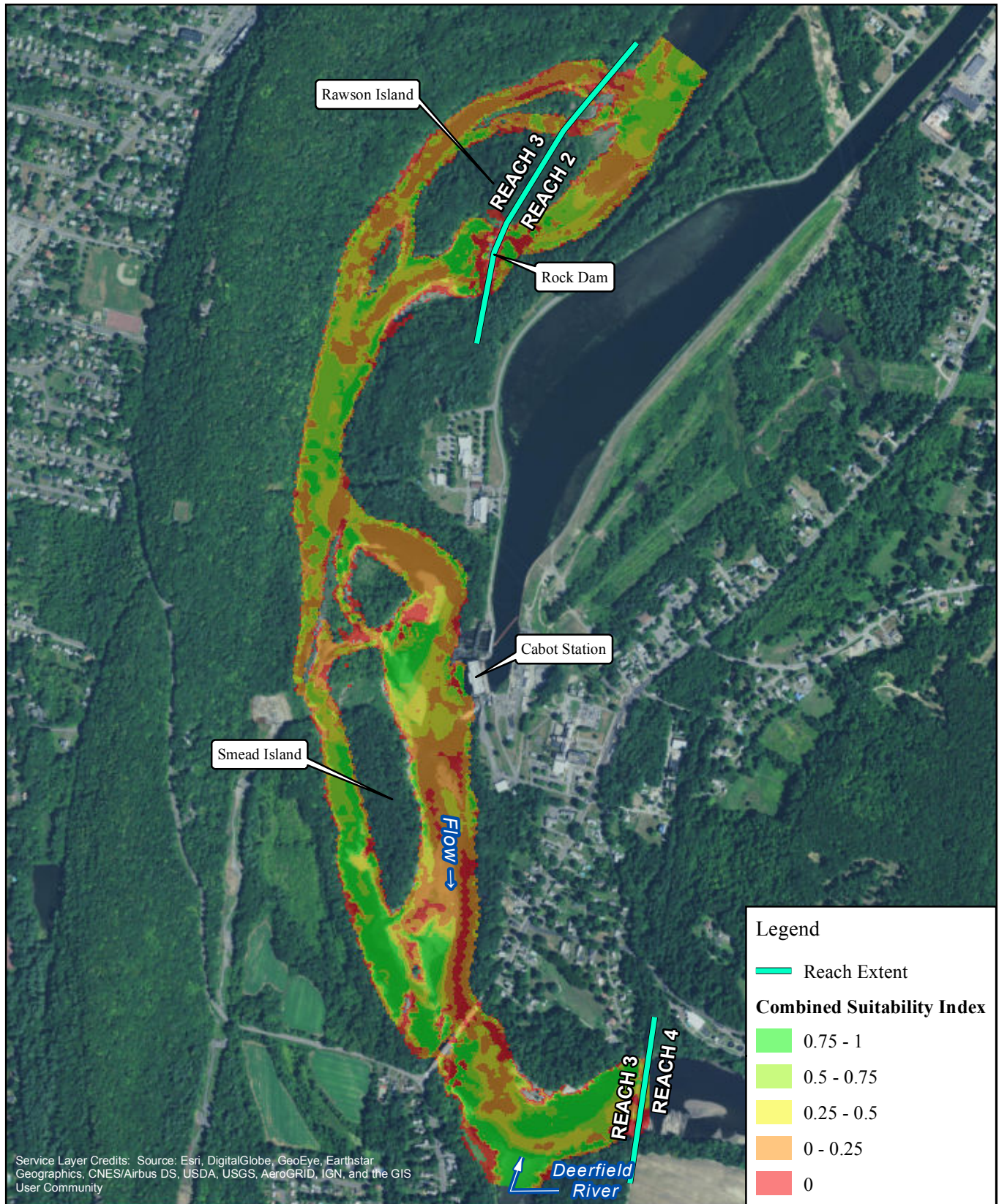
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Shortnose Sturgeon-Juvenile  
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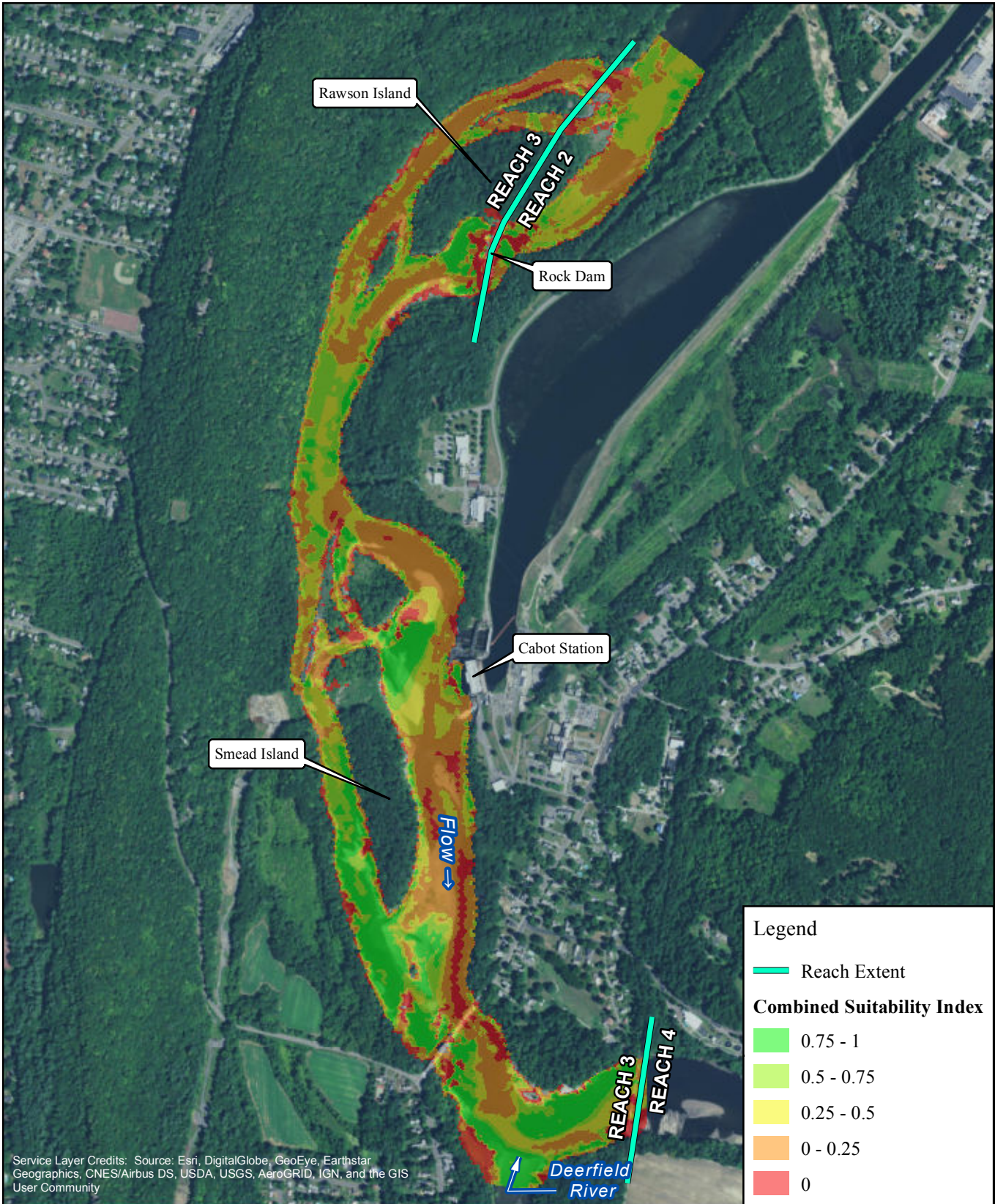
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 RELICENSING STUDY 3.3.1



**Legend**

- Reach Extent

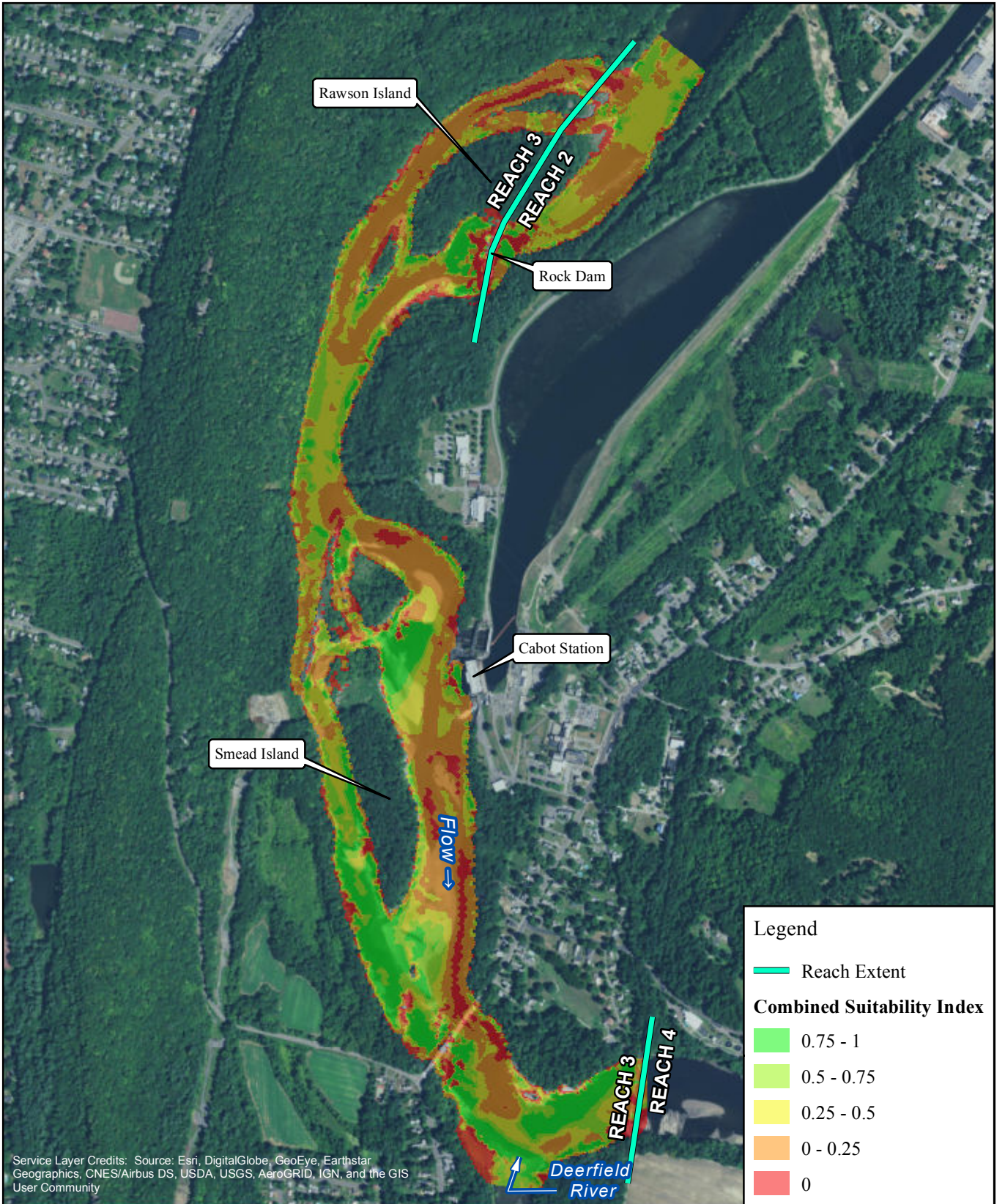
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- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

Shortnose Sturgeon-Juvenile  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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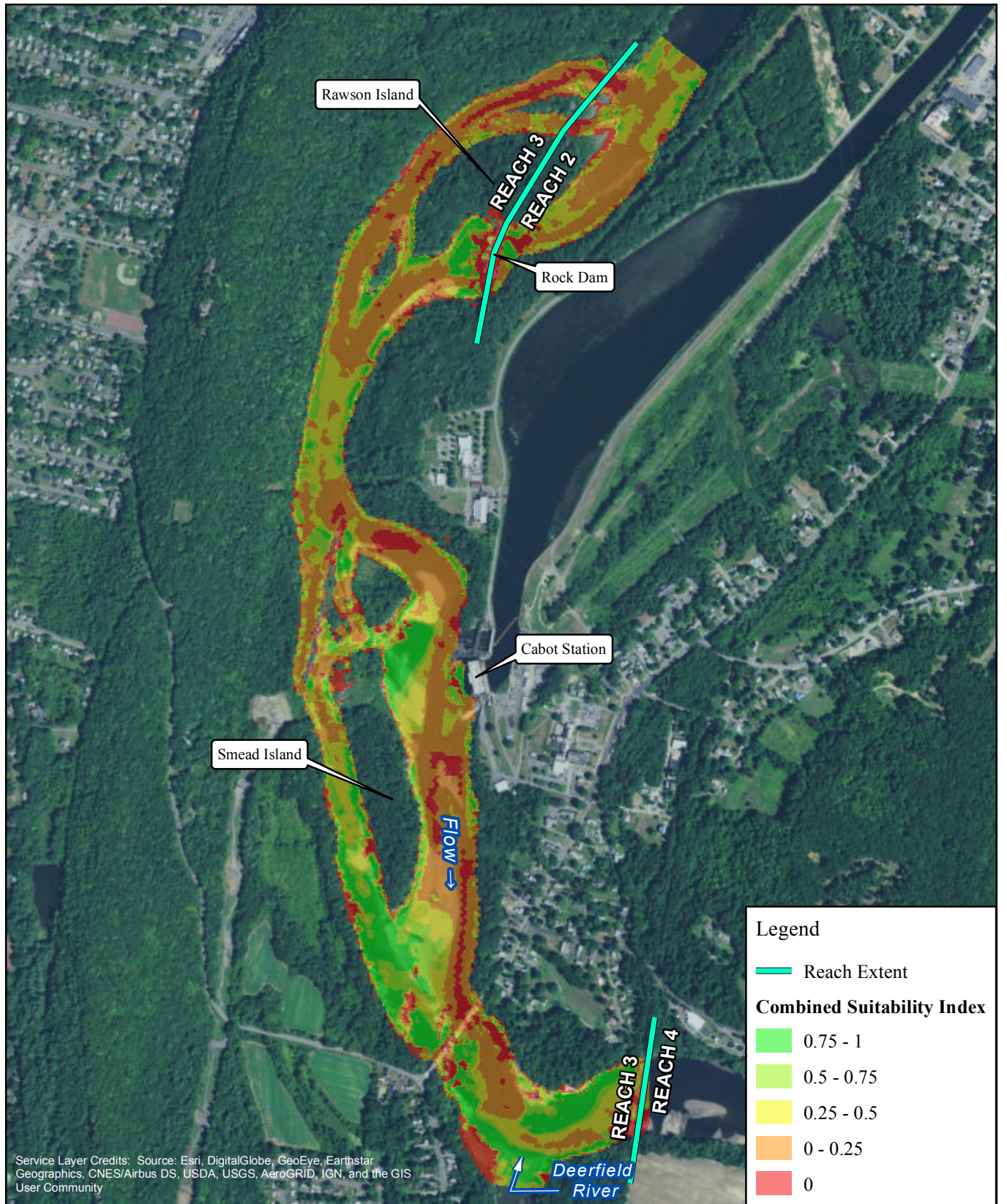
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

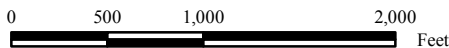
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**Combined Suitability Index**

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- 0 - 0.25
- 0



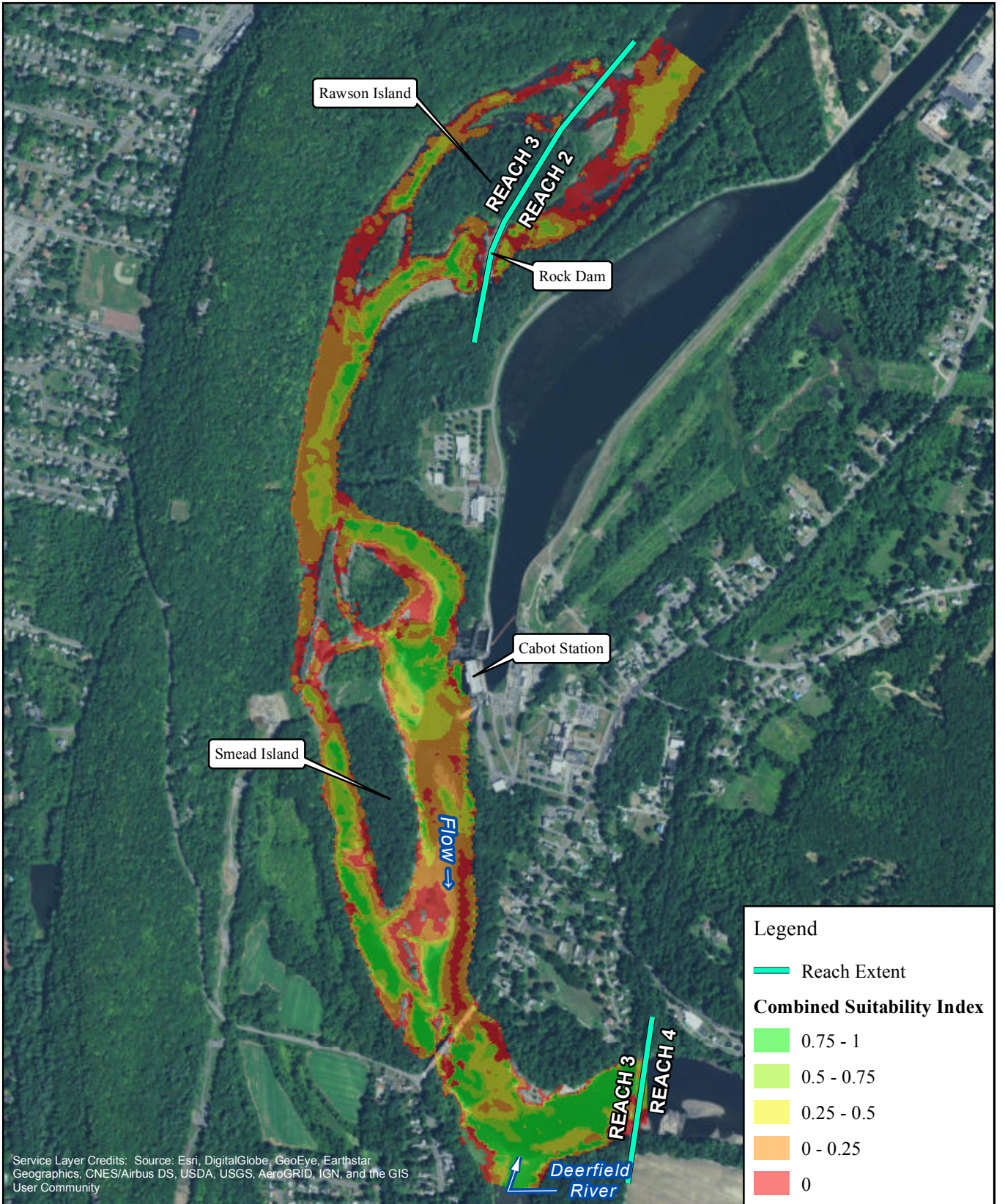
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**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Juvenile**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

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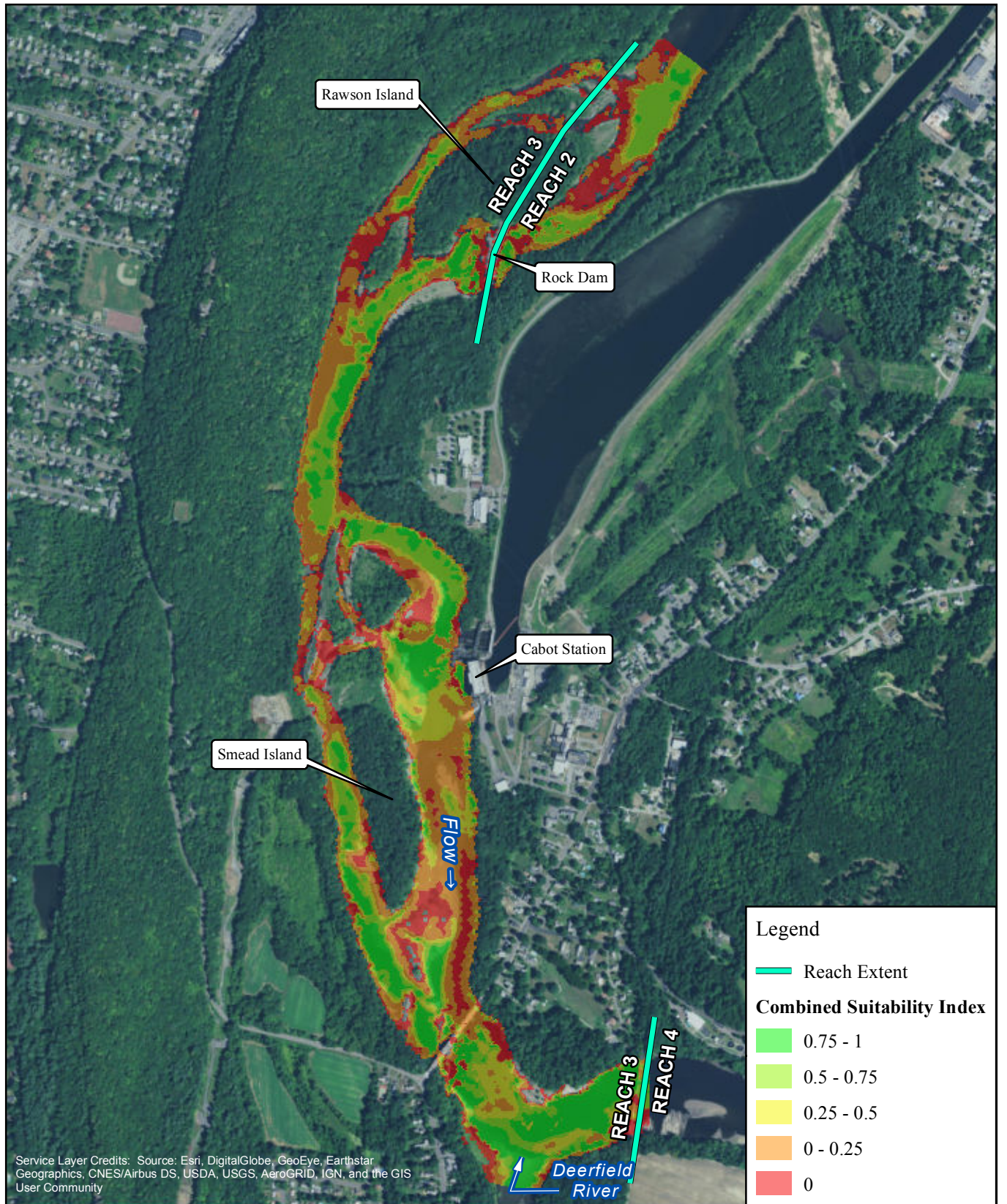
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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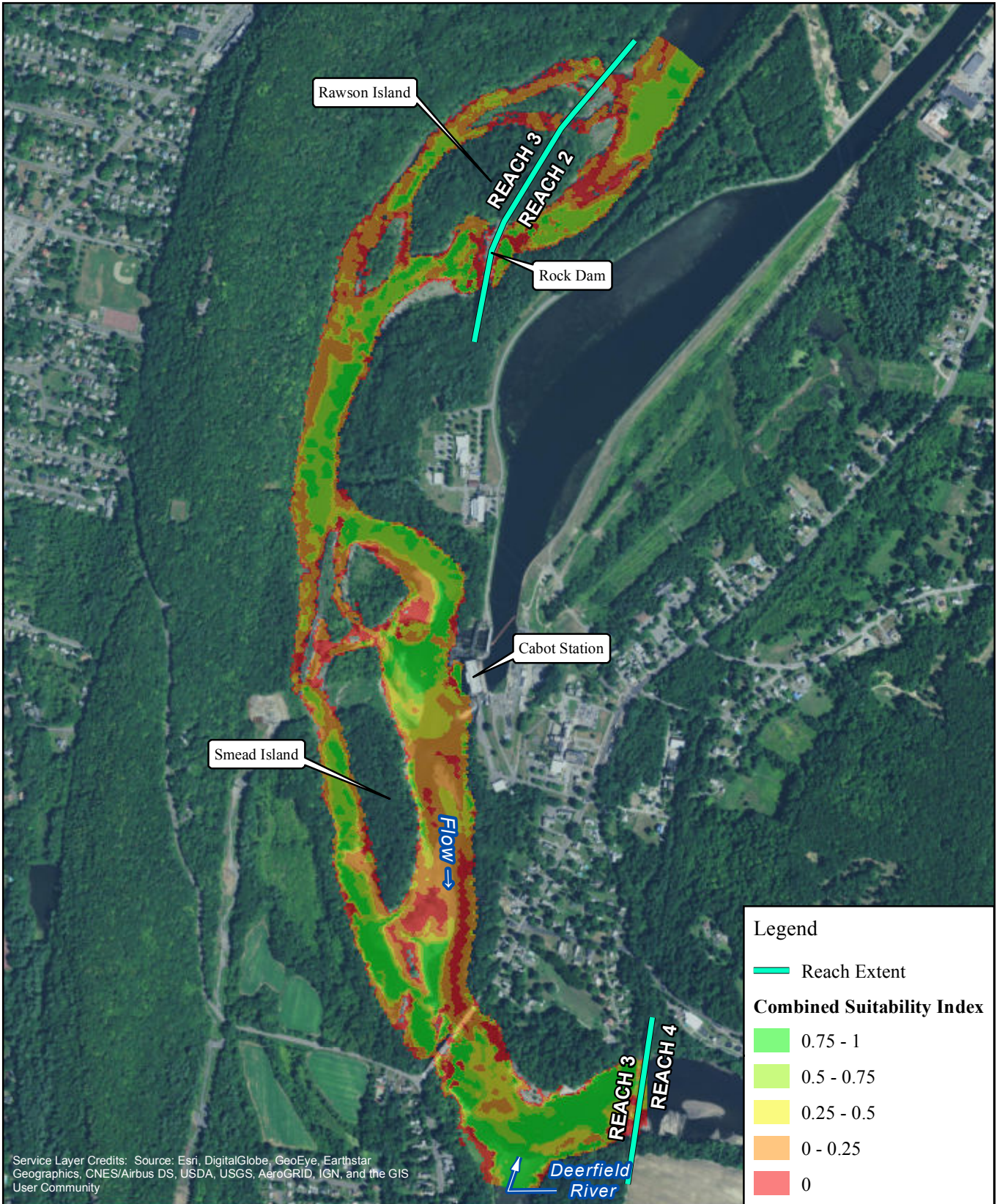
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Shortnose Sturgeon-Juvenile  
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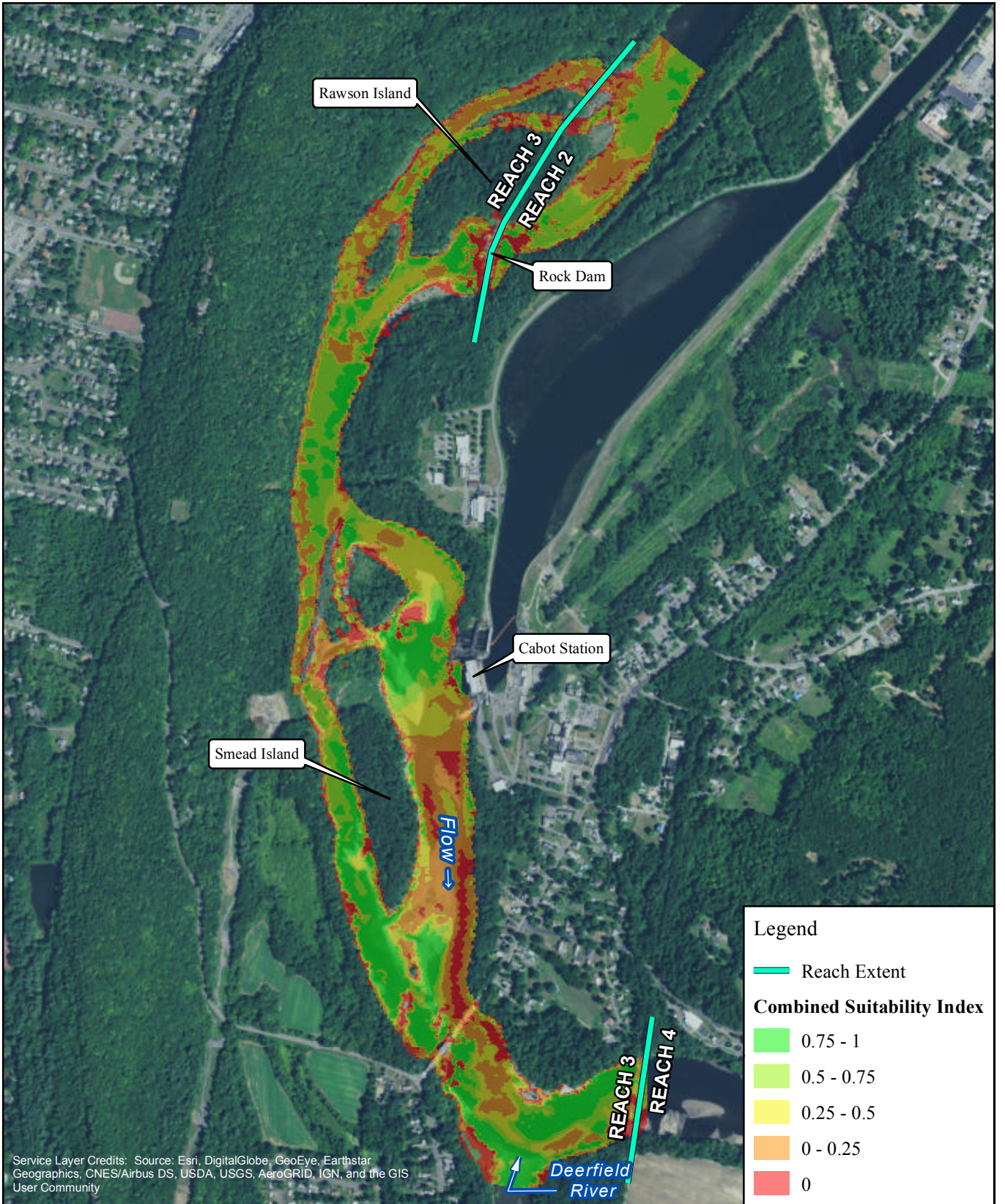
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Shortnose Sturgeon-Juvenile  
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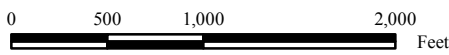




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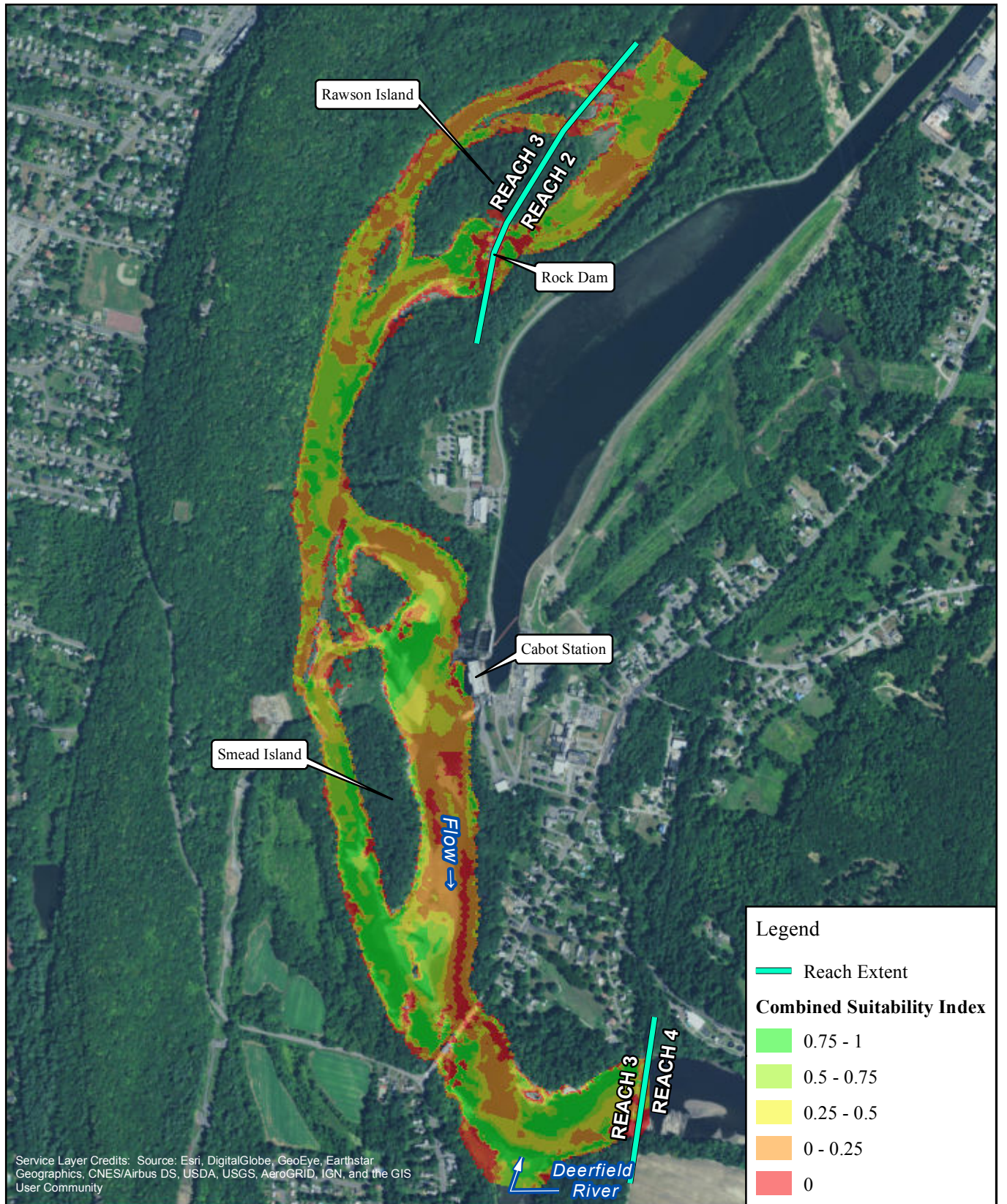
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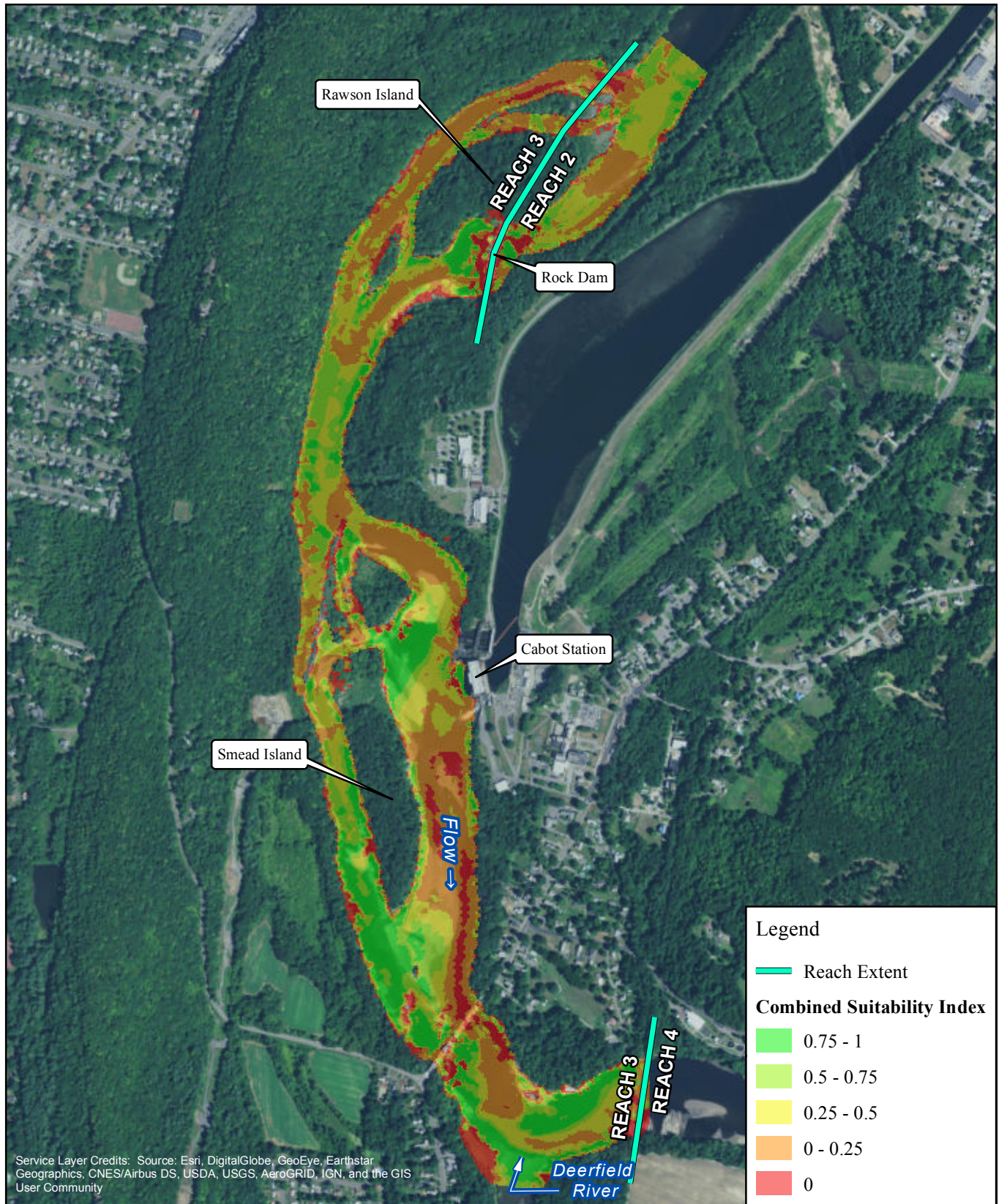
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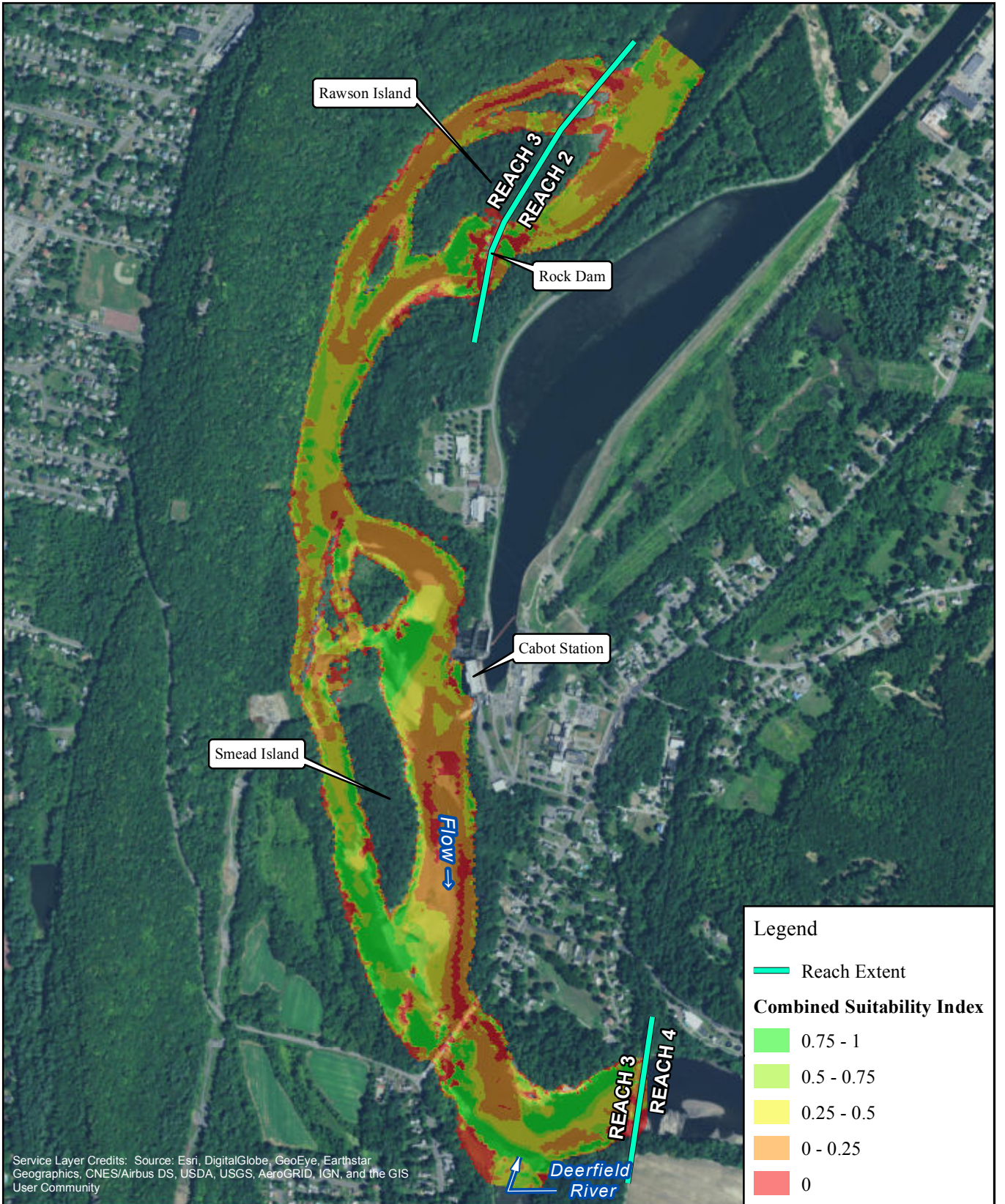
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Shortnose Sturgeon-Juvenile  
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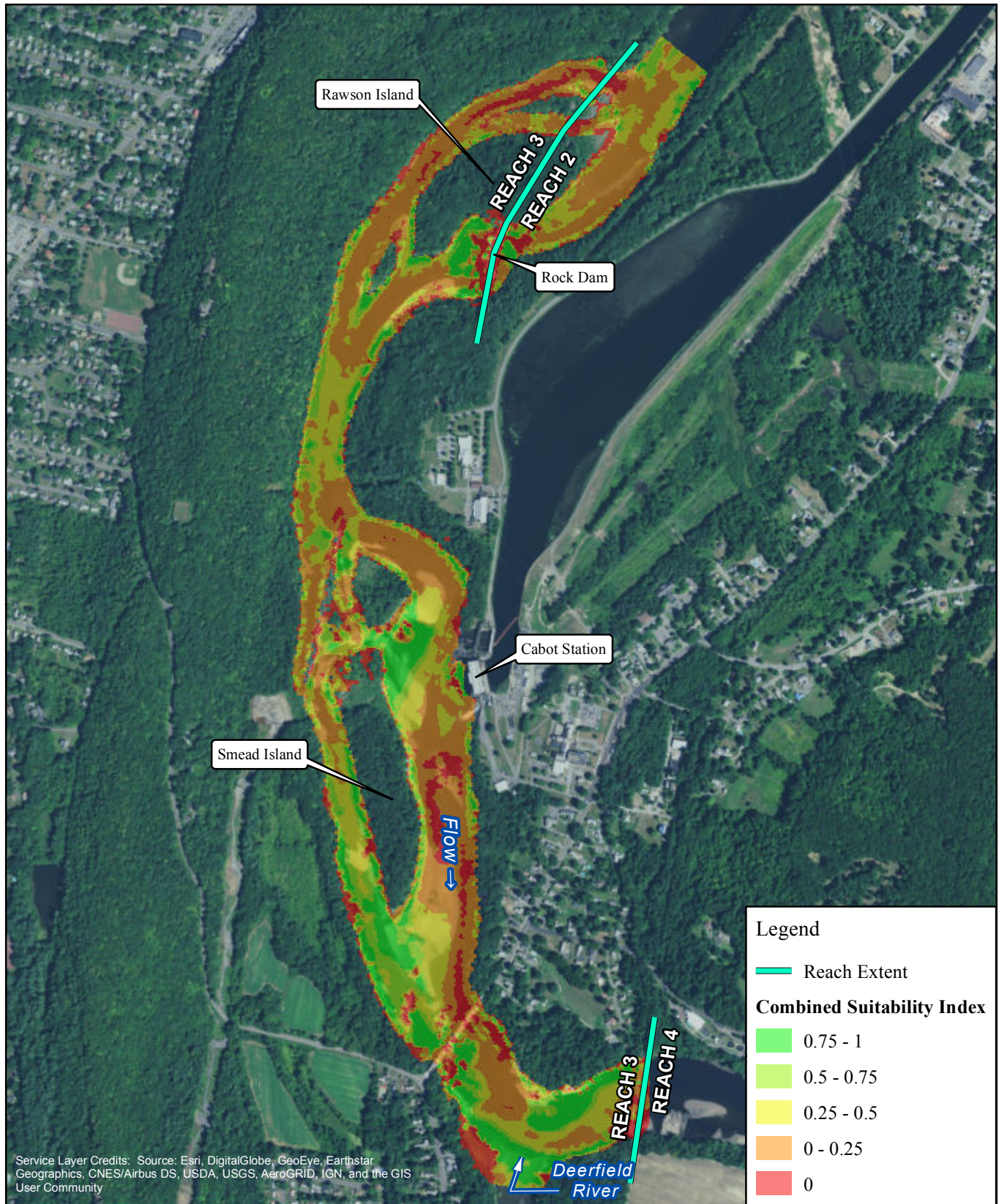
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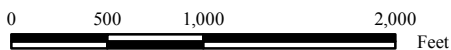
Shortnose Sturgeon-Juvenile  
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 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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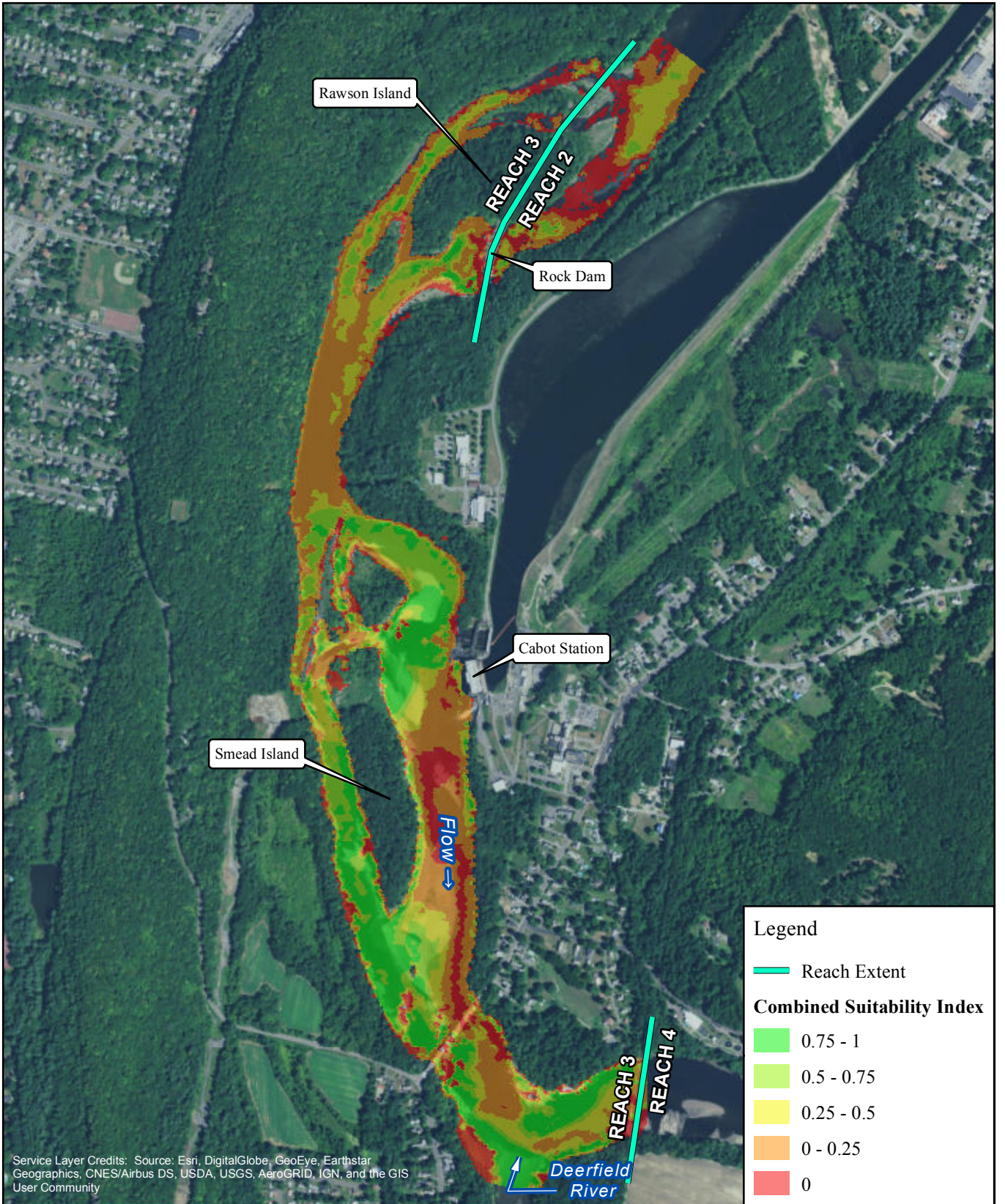
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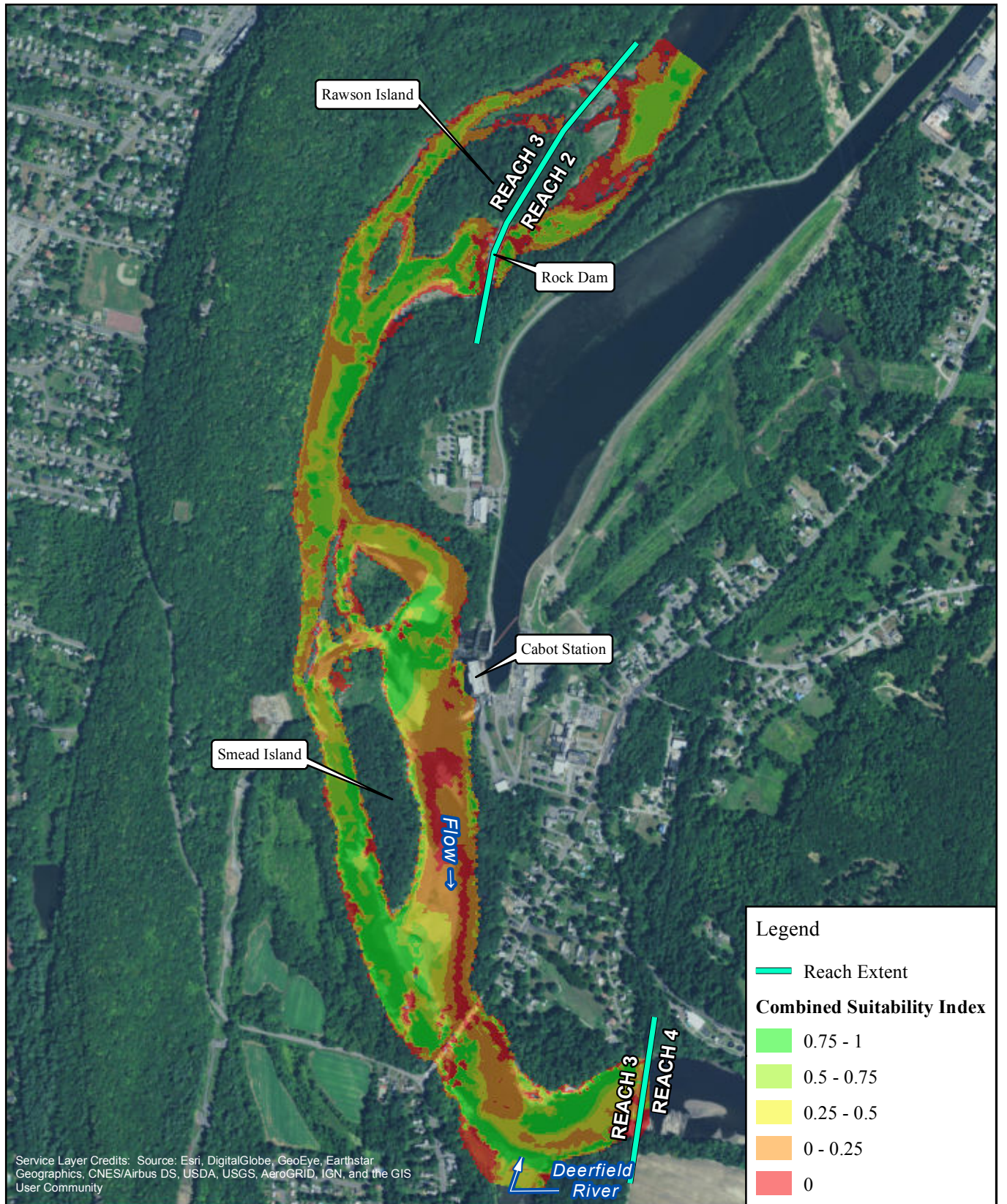
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 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Juvenile  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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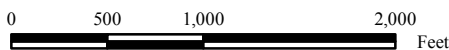




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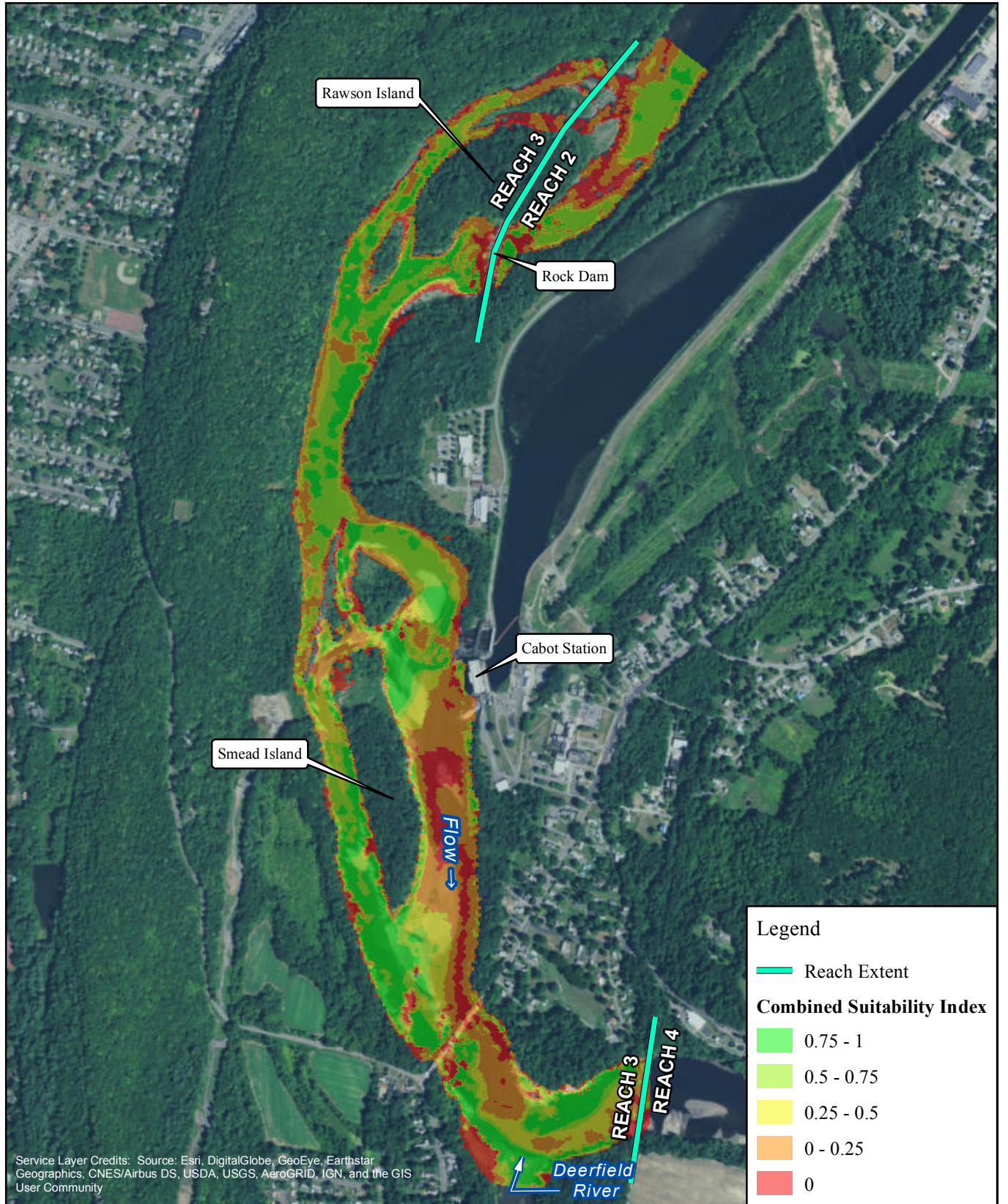
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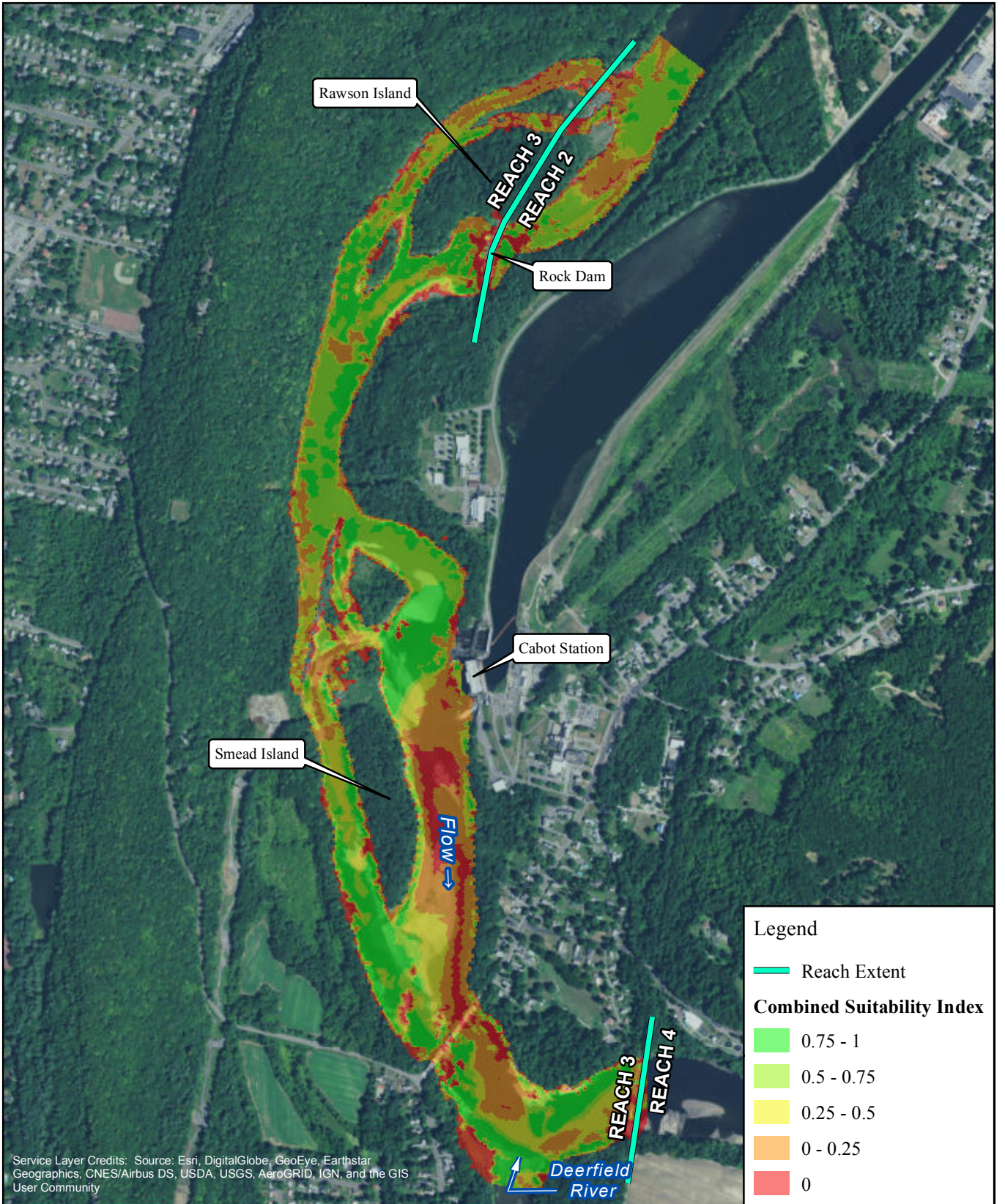
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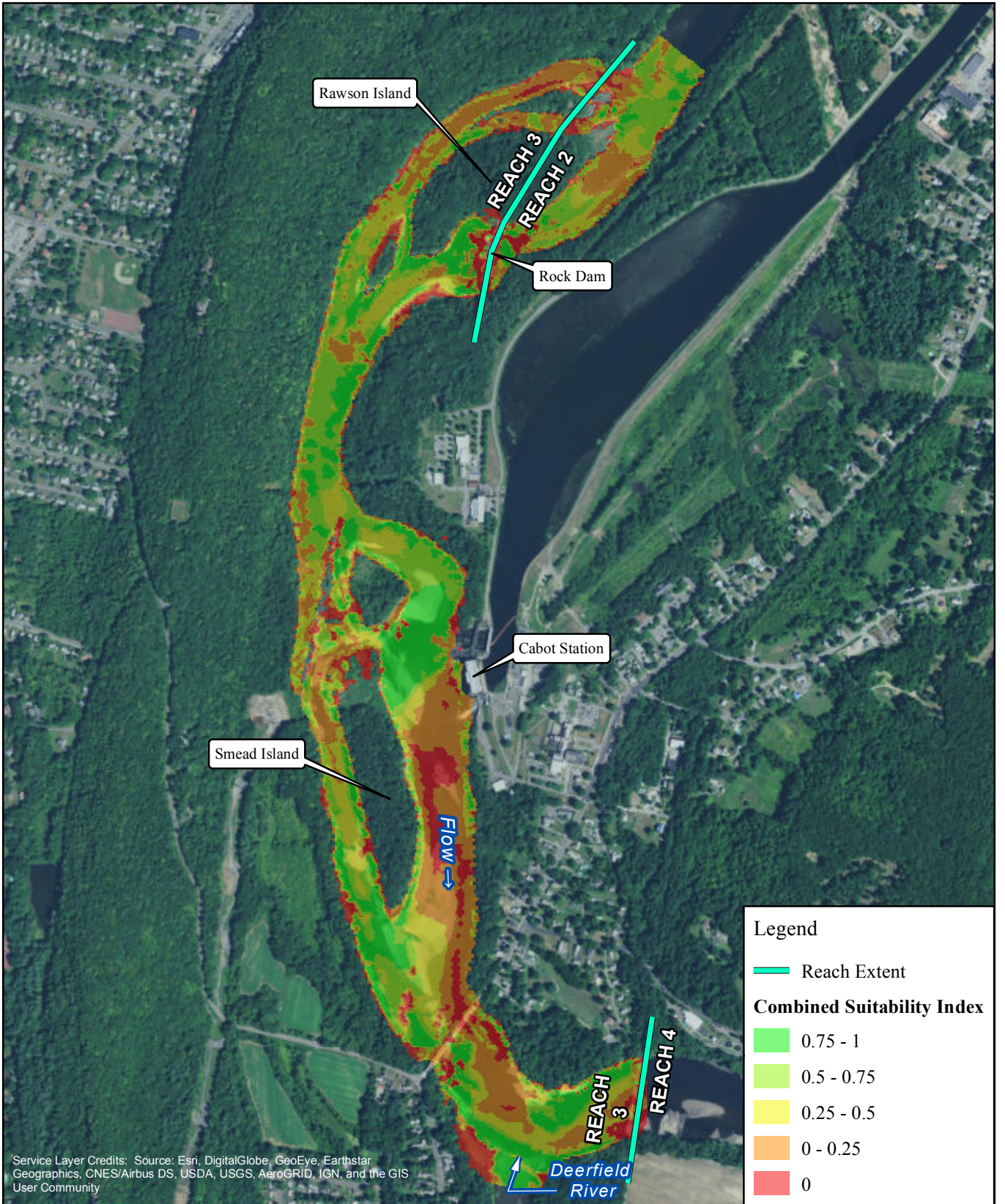
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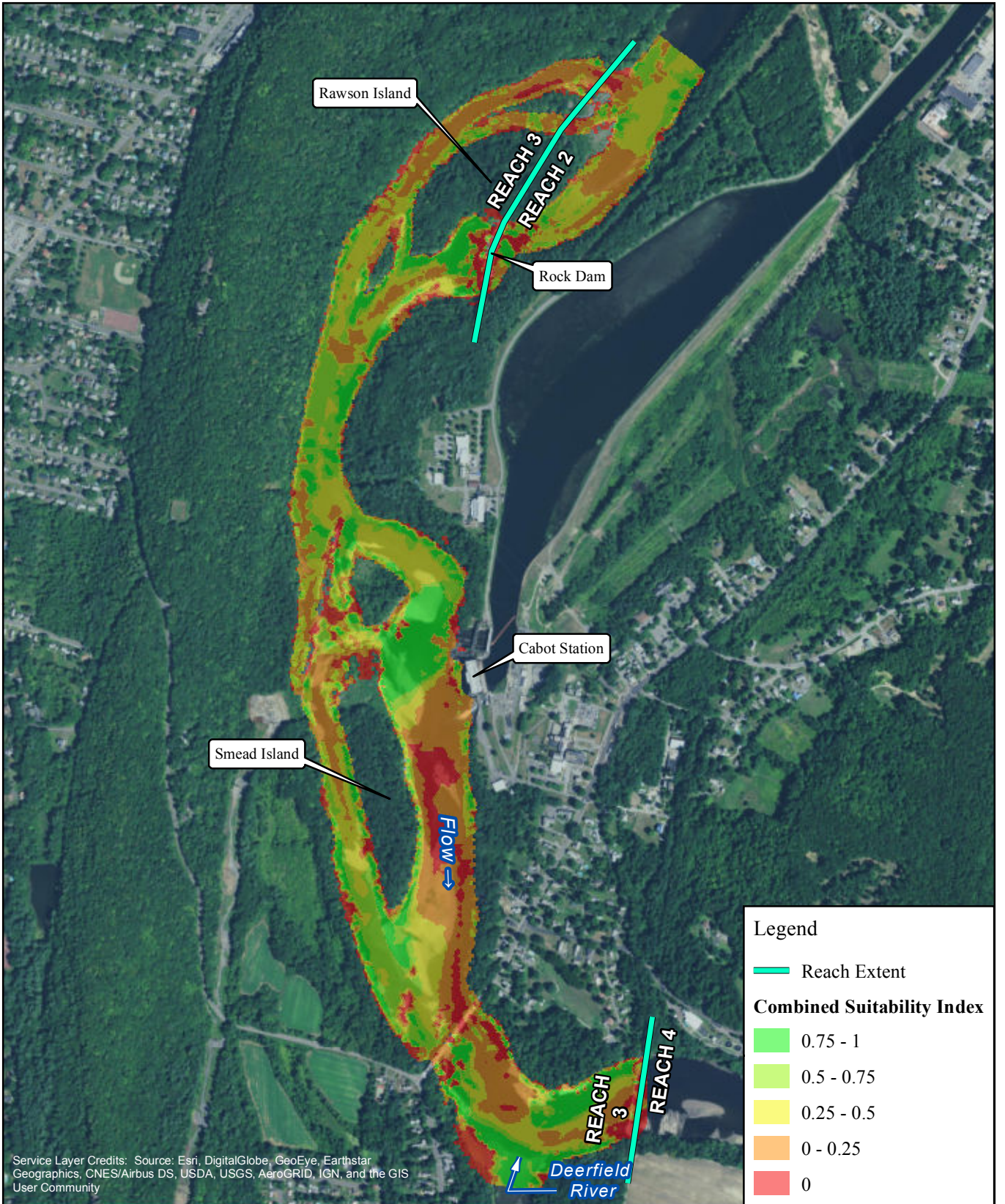
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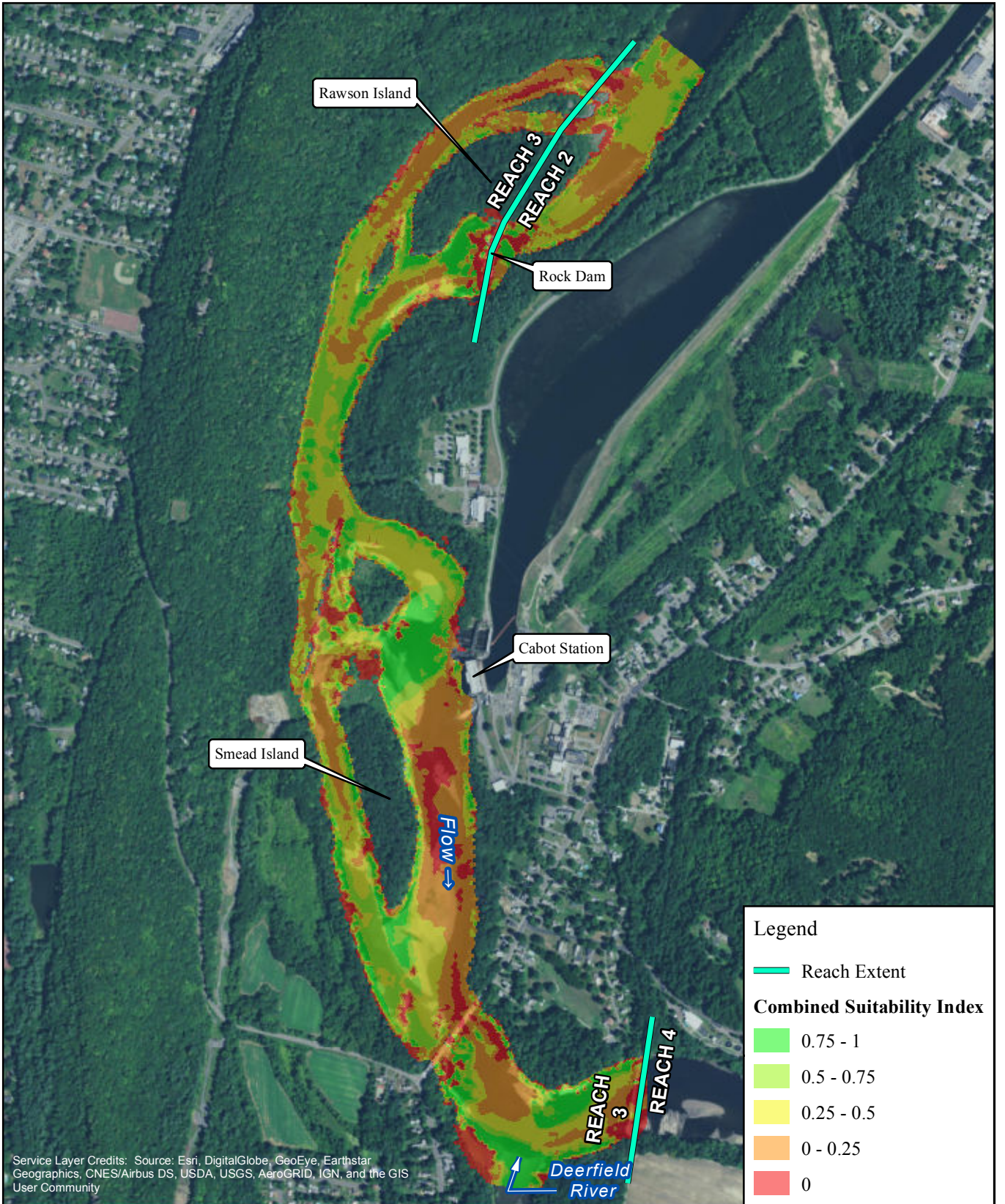
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Shortnose Sturgeon-Juvenile  
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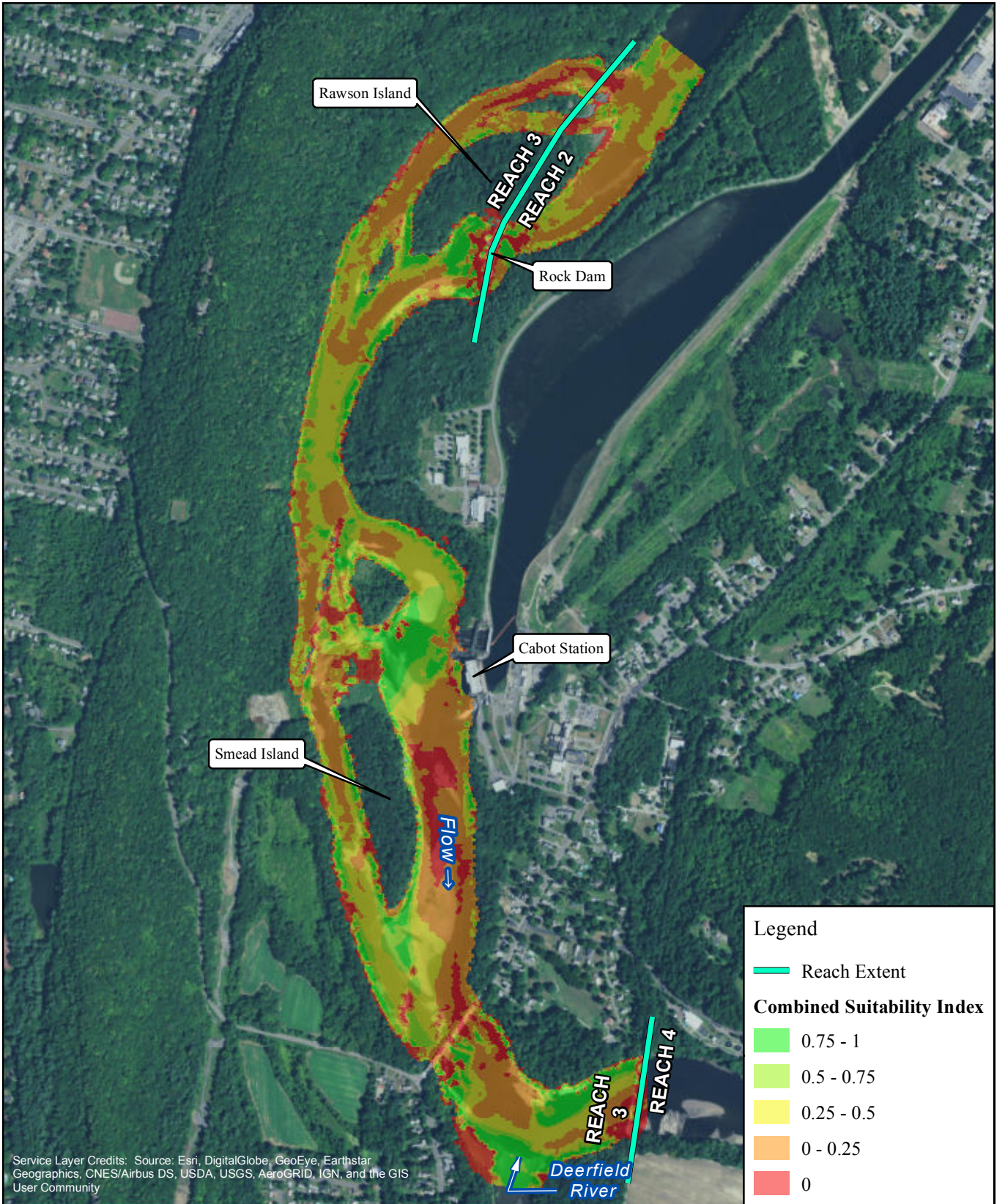
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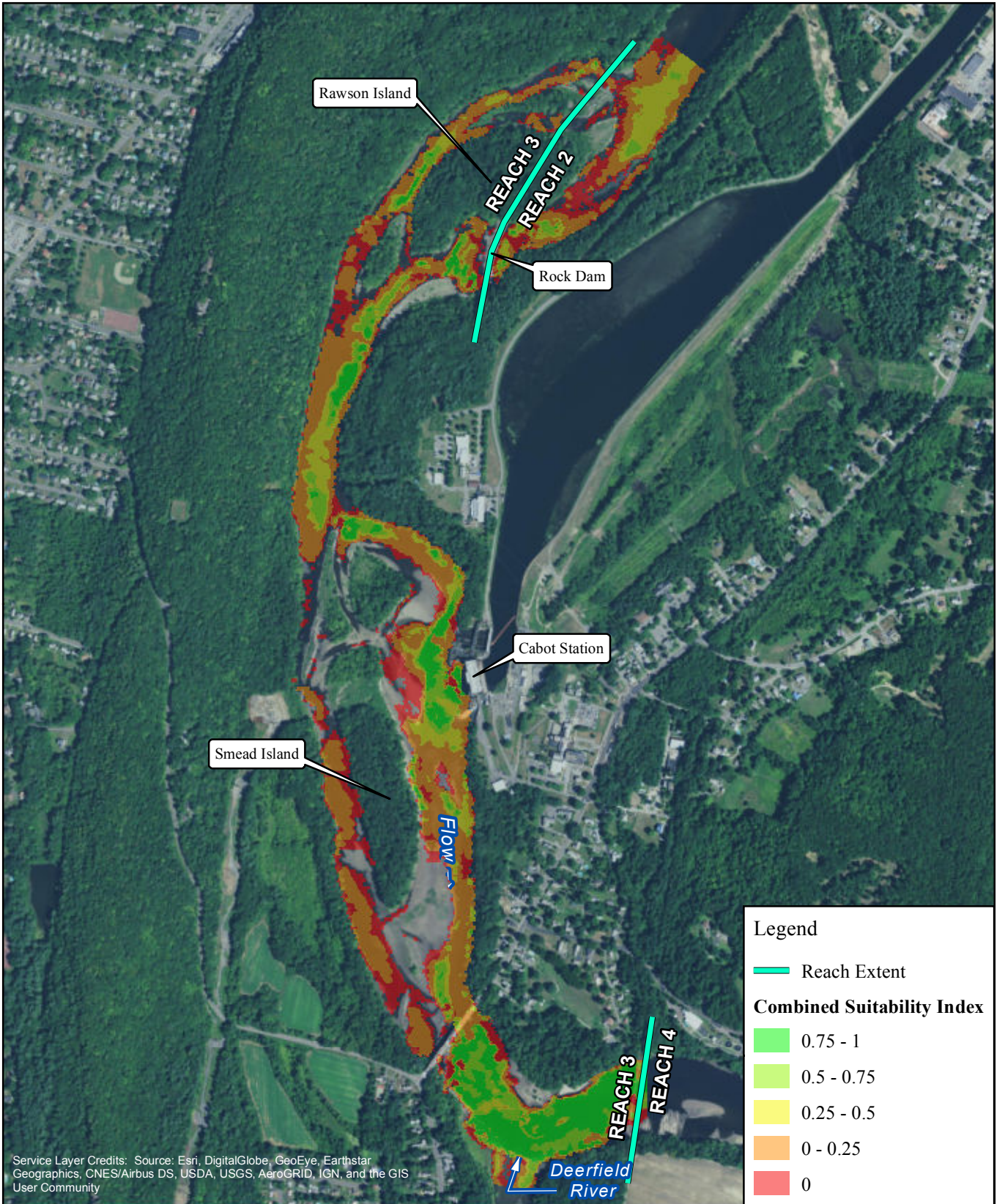
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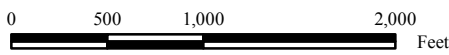
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**Combined Suitability Index**

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- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0



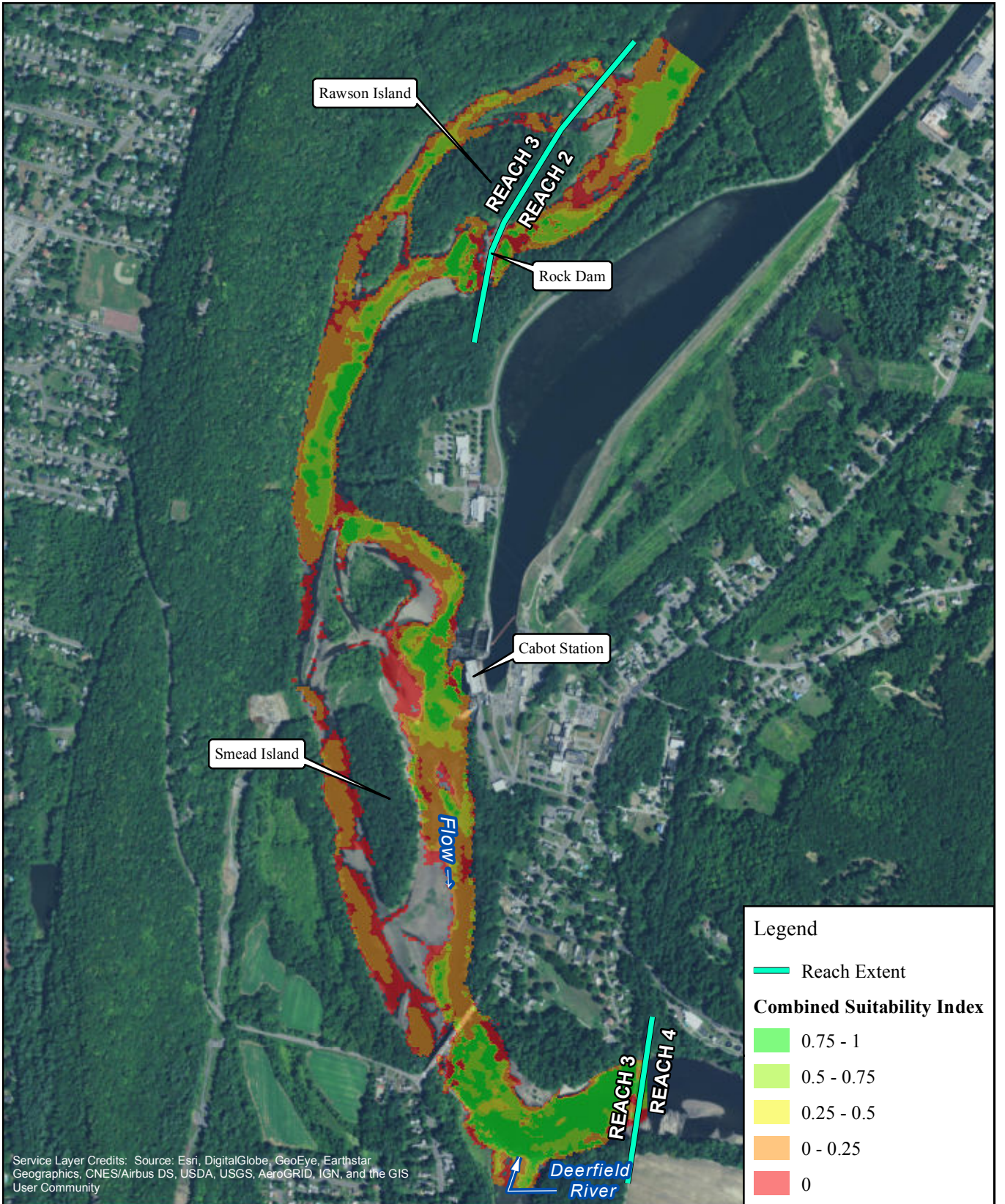
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Adult**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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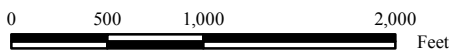
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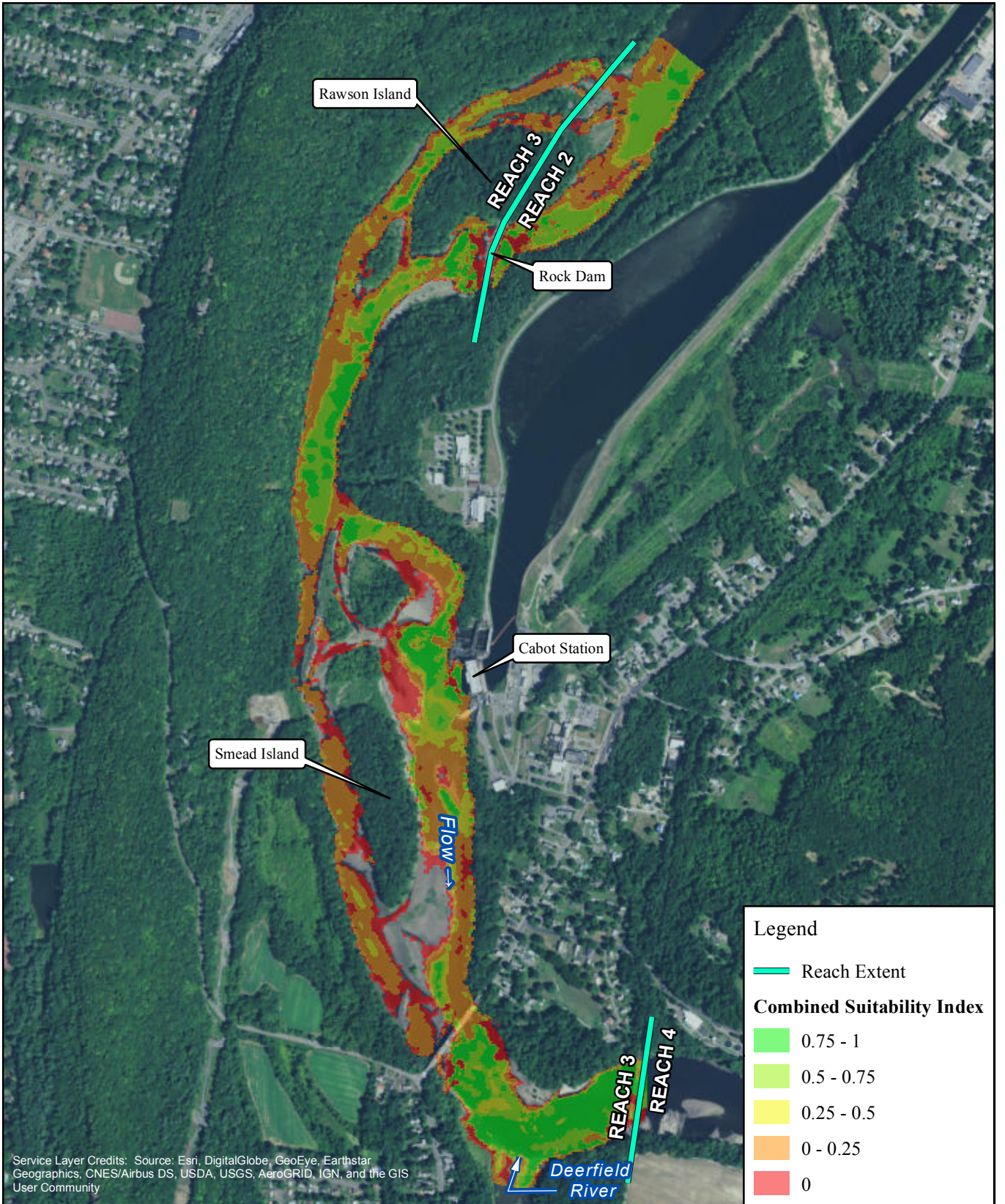
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**RELICENSING STUDY 3.3.1**



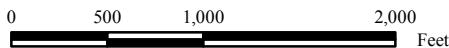
**Shortnose Sturgeon-Adult**  
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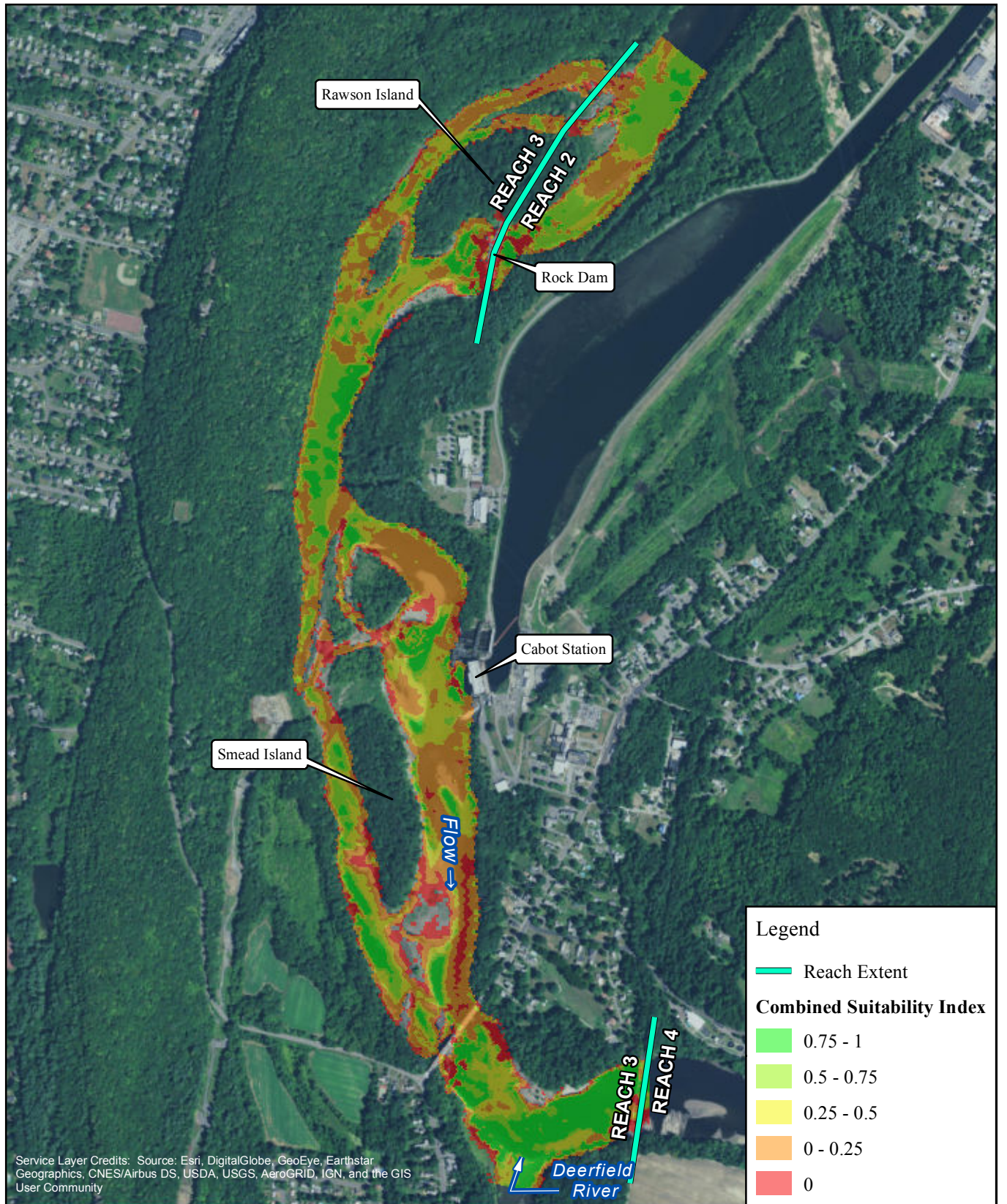
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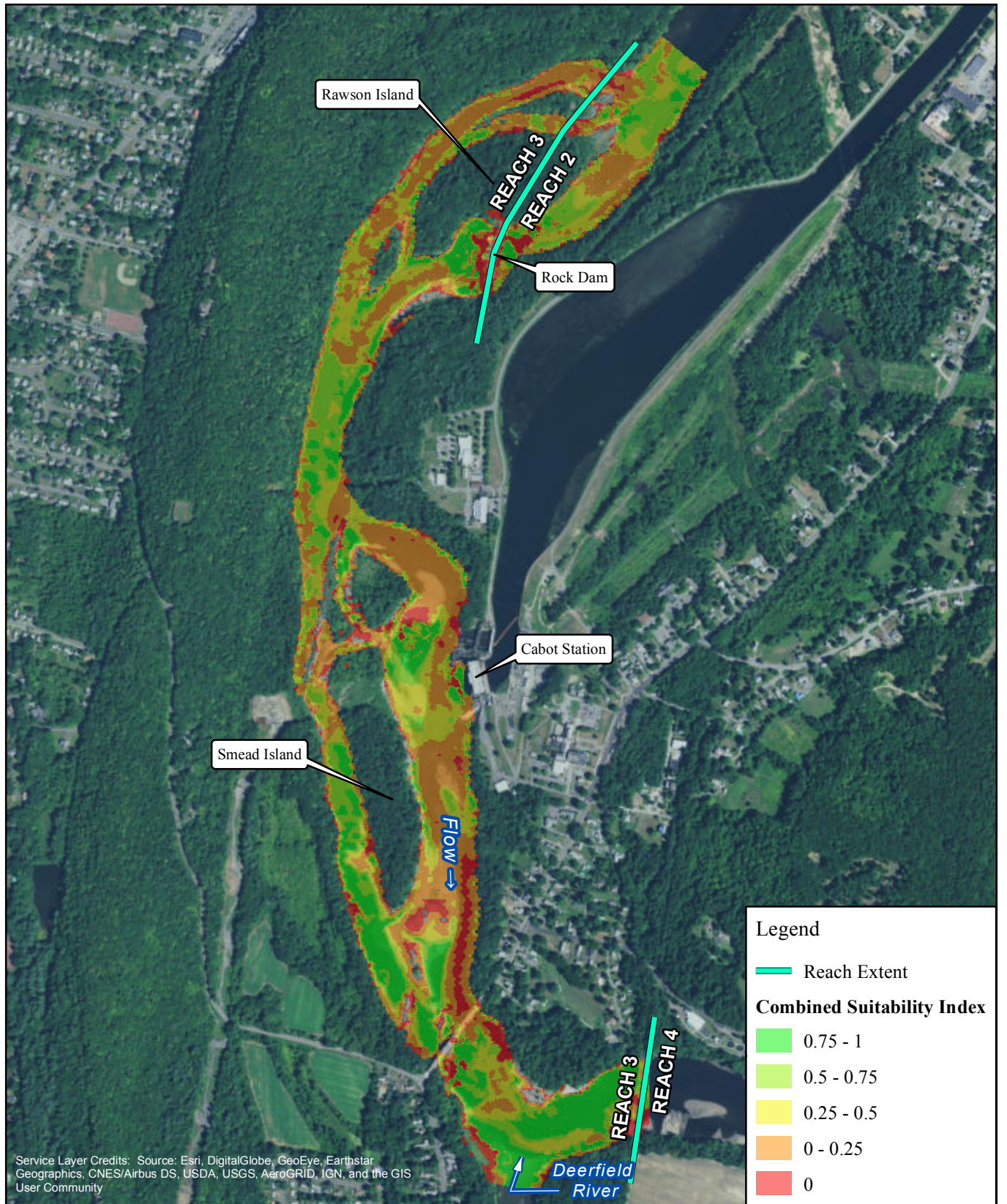
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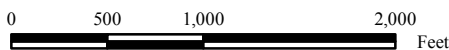




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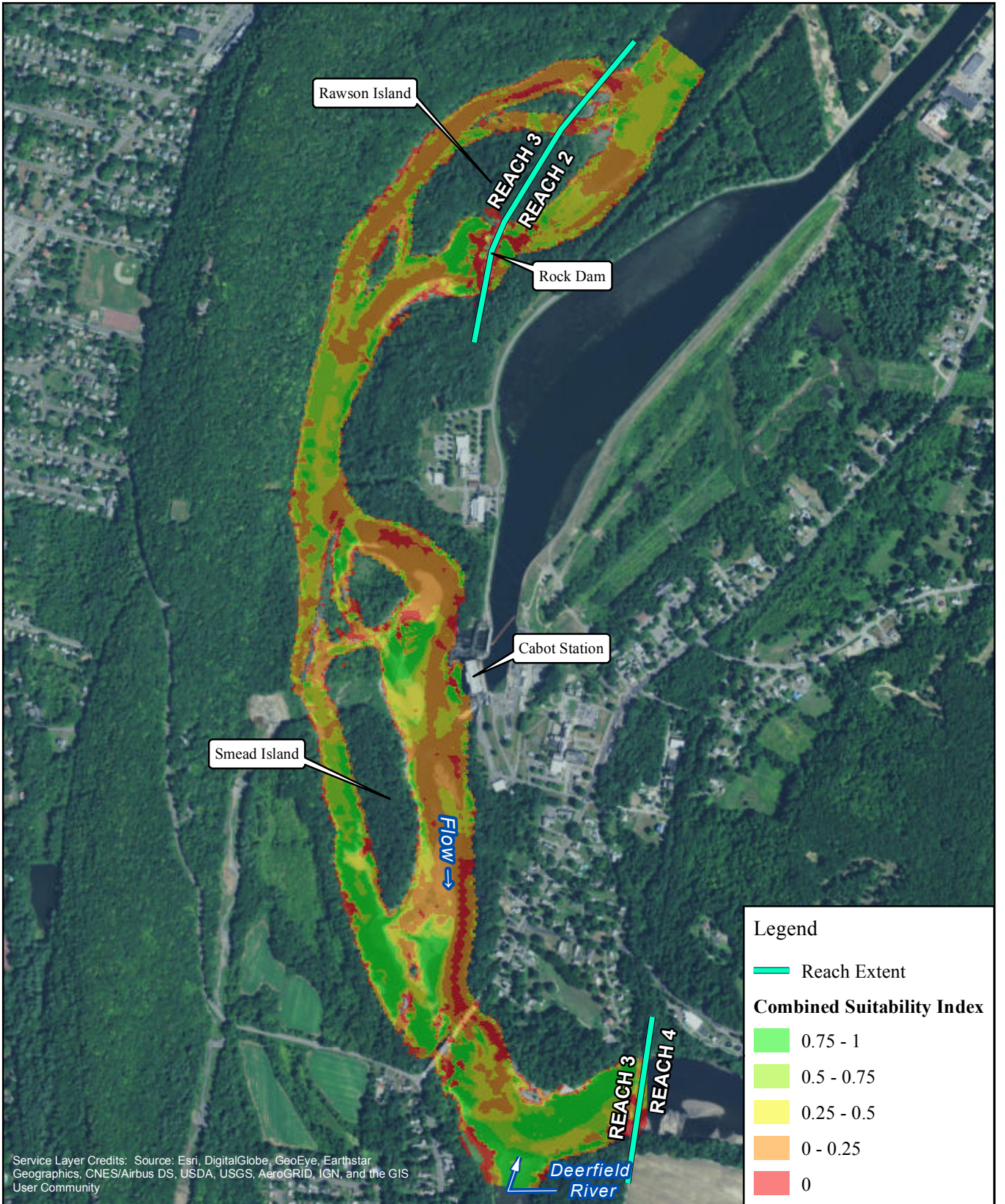
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 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



**Legend**

- Reach Extent

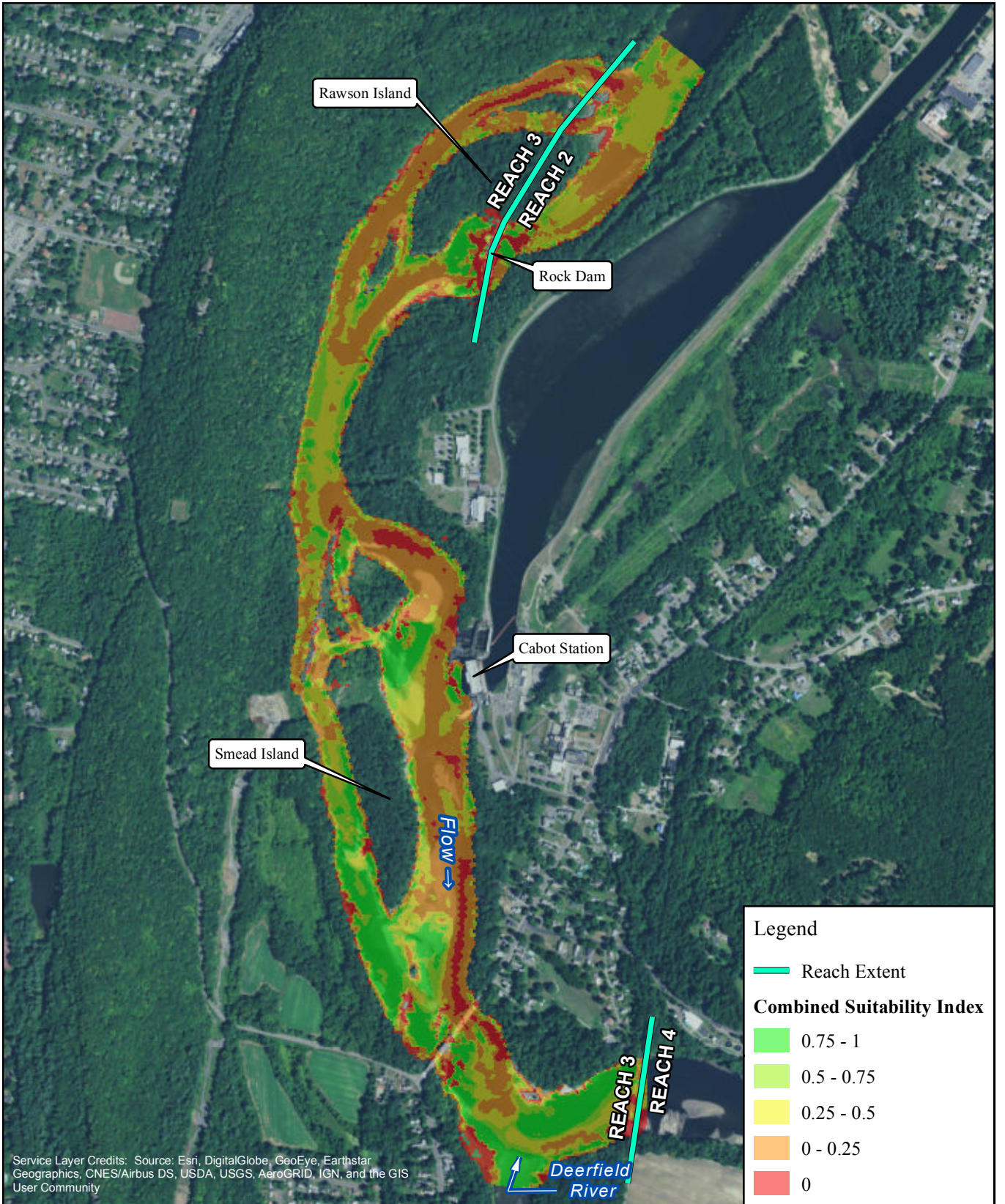
**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

Shortnose Sturgeon-Adult  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

- Reach Extent

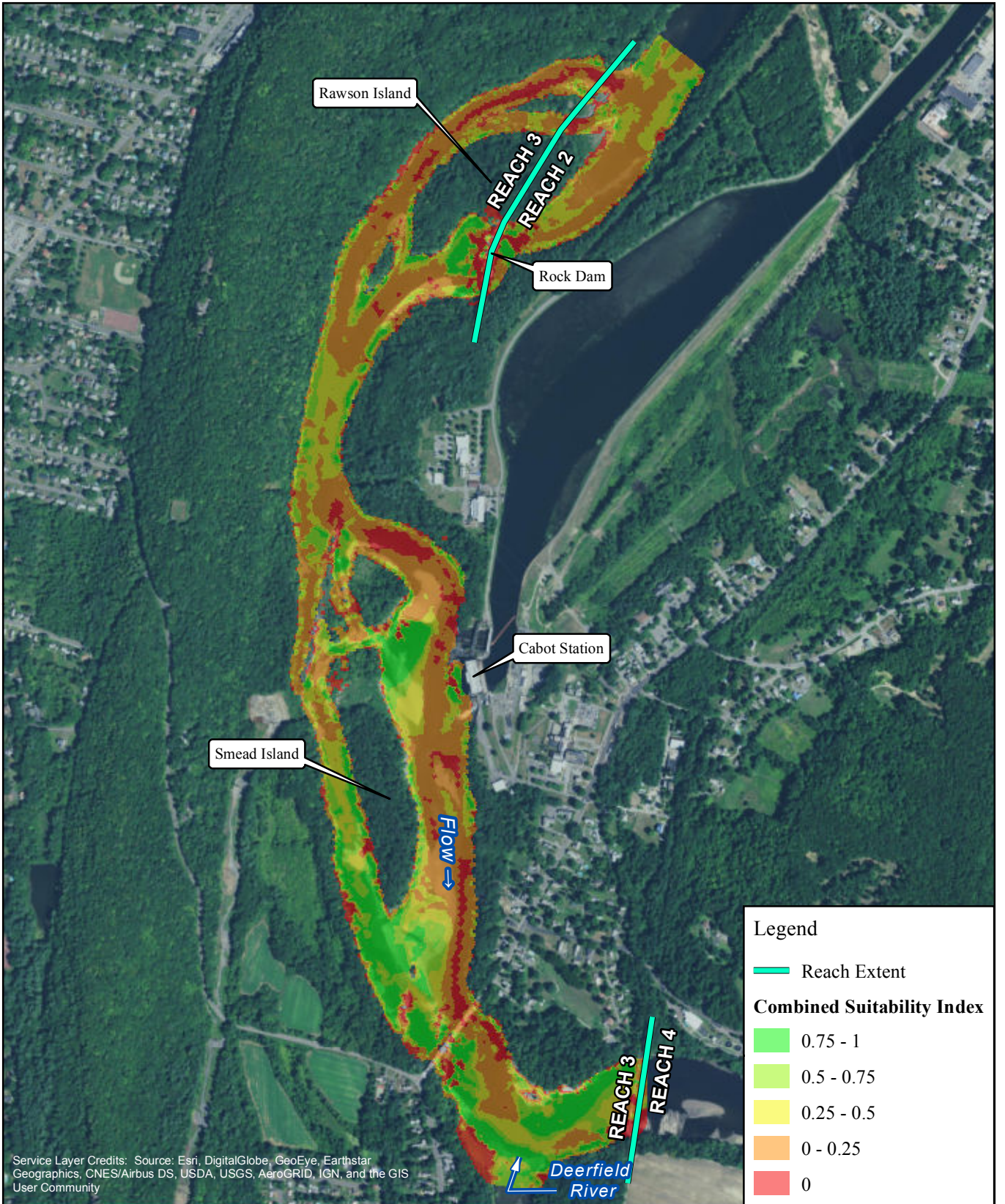
**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0

**Shortnose Sturgeon-Adult**  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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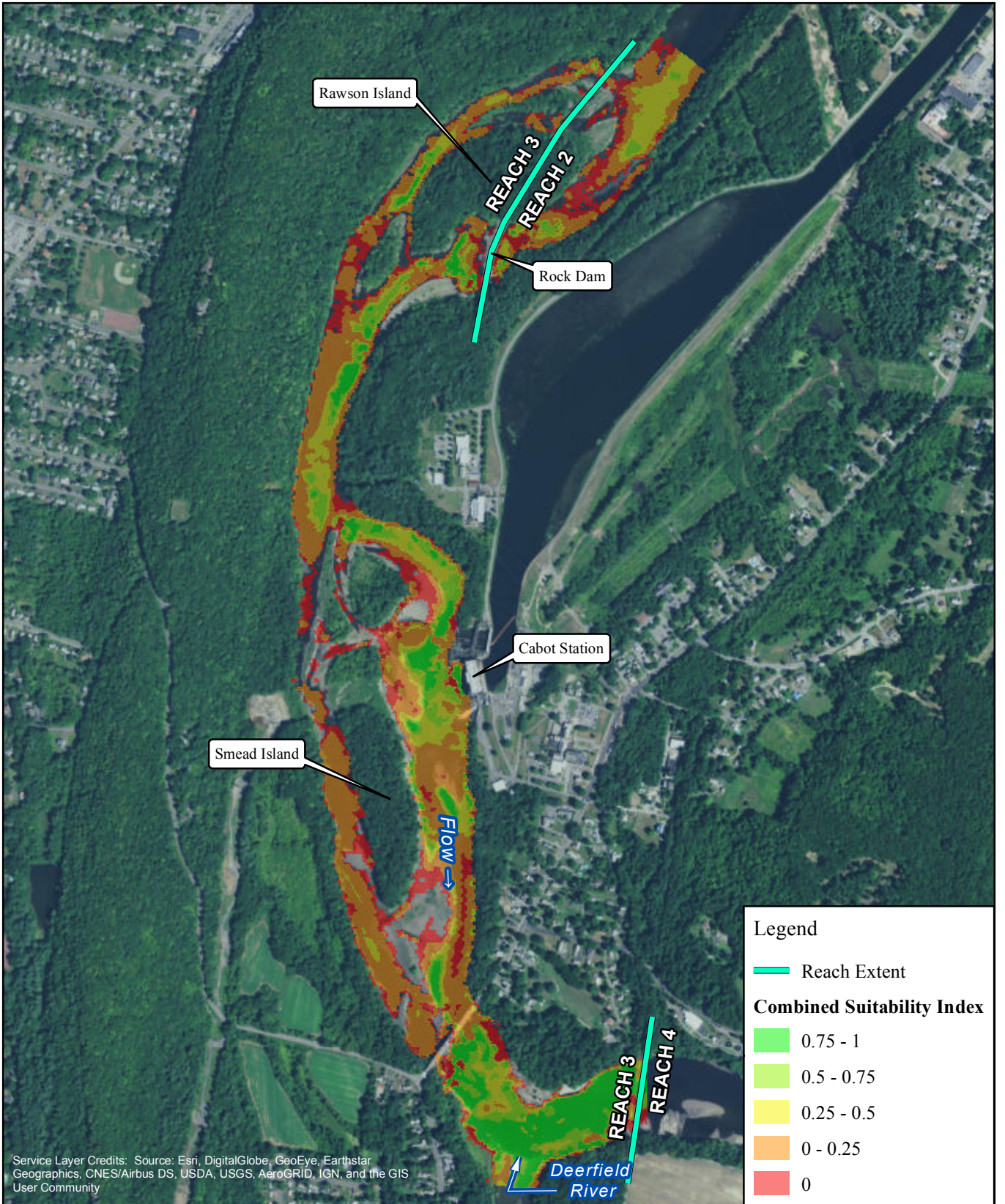
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 2500 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

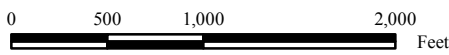
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**Combined Suitability Index**

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- 0 - 0.25
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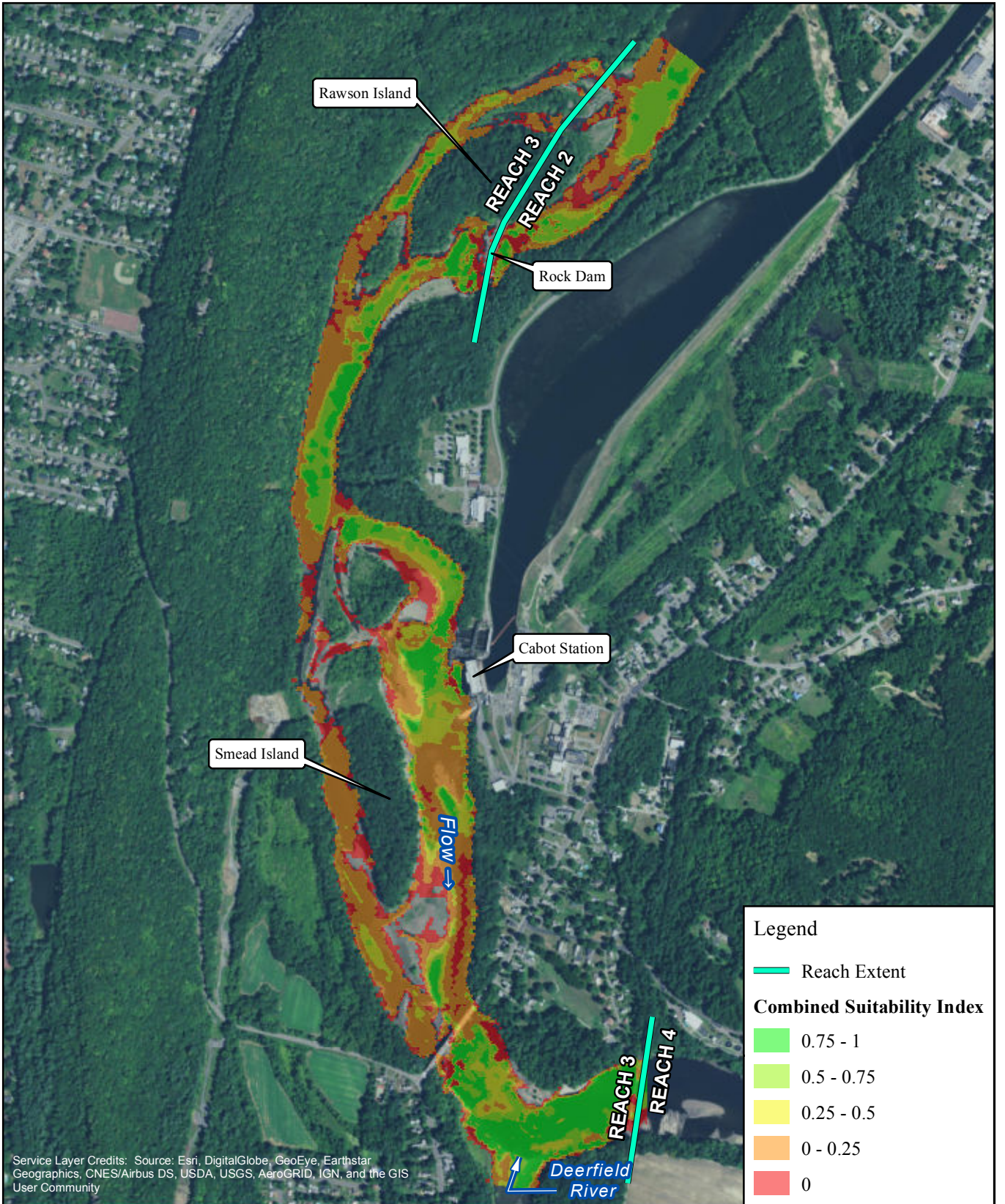
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Adult**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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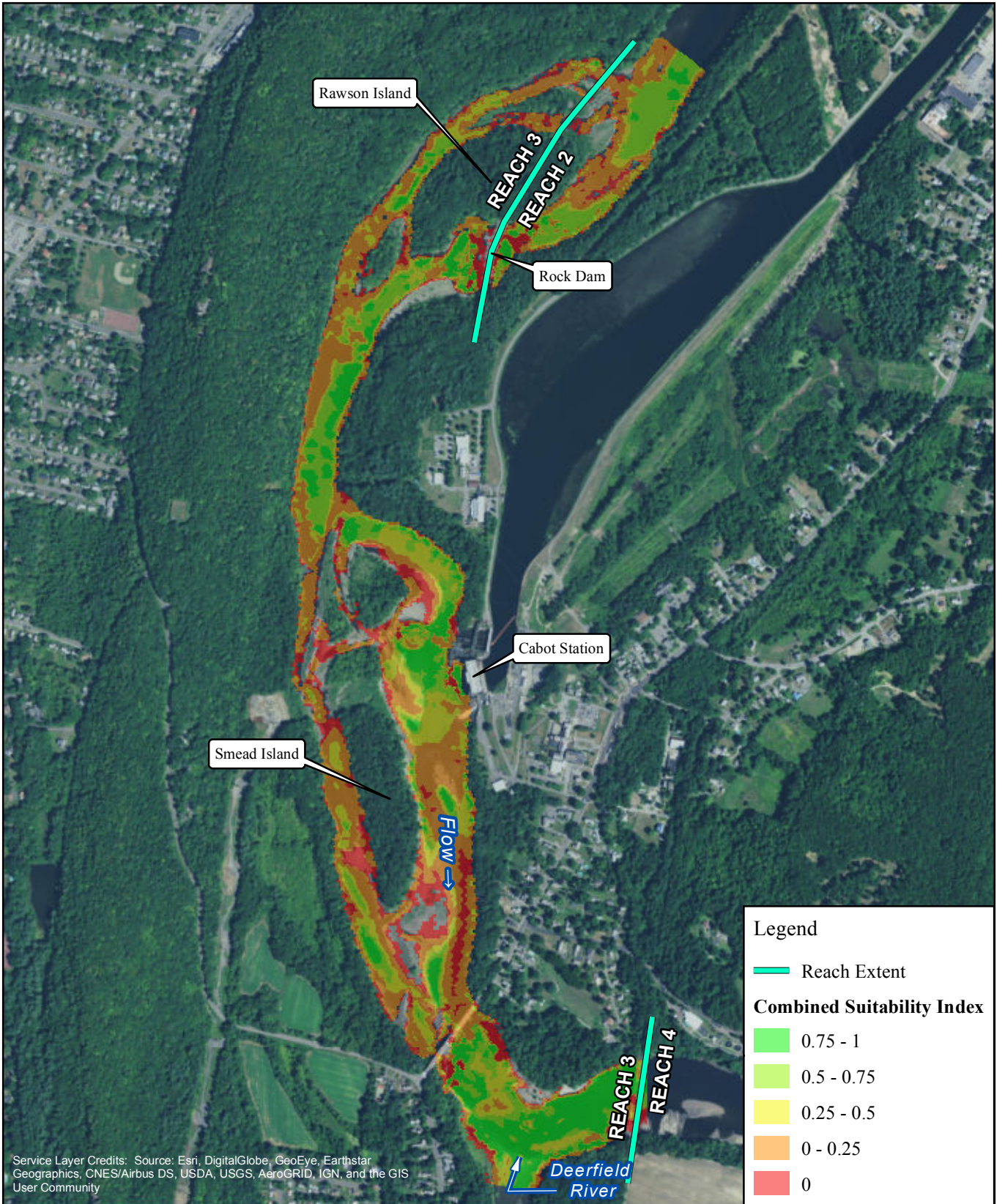
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

Shortnose Sturgeon-Adult  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

0 500 1,000 2,000 Feet

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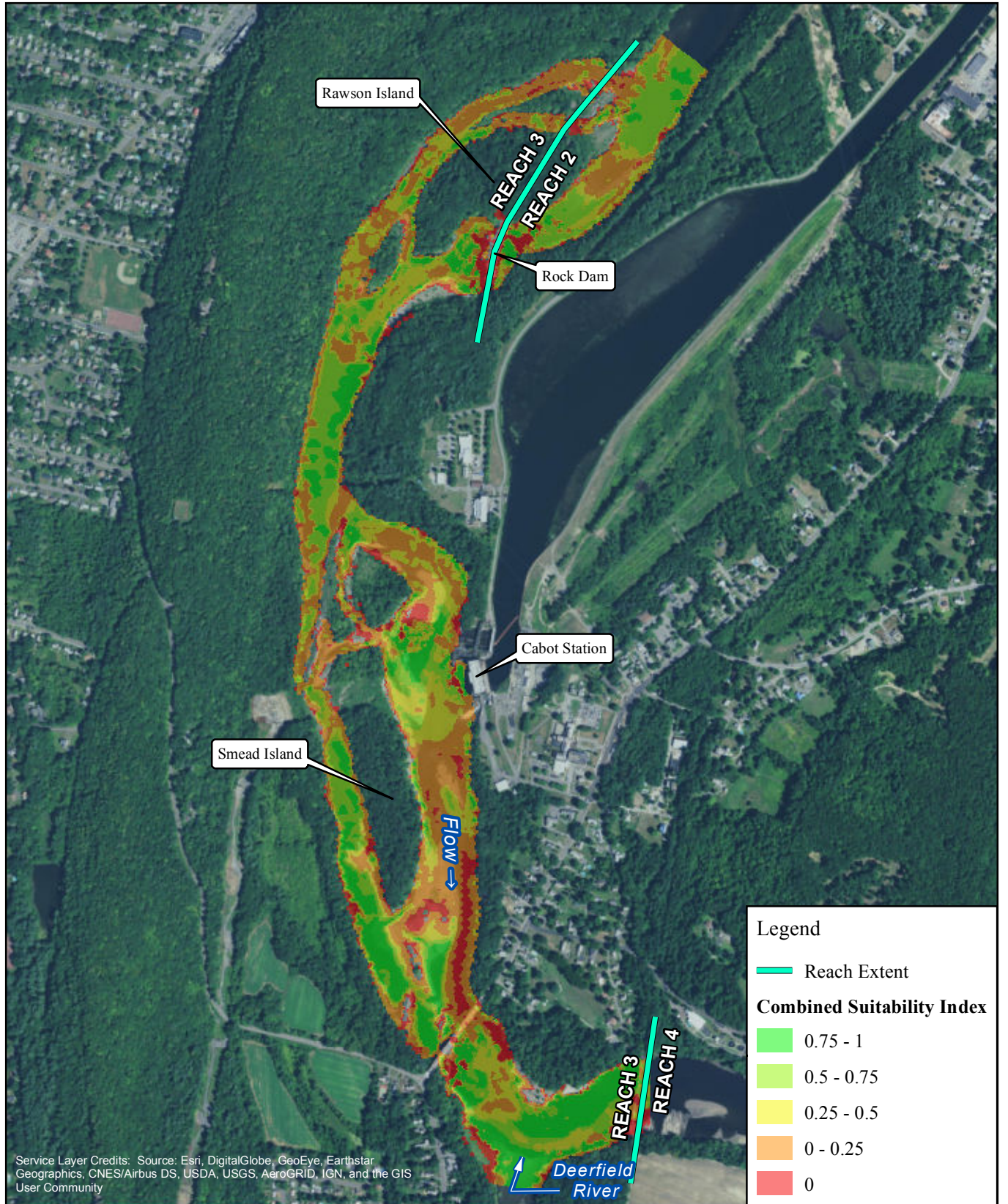
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
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 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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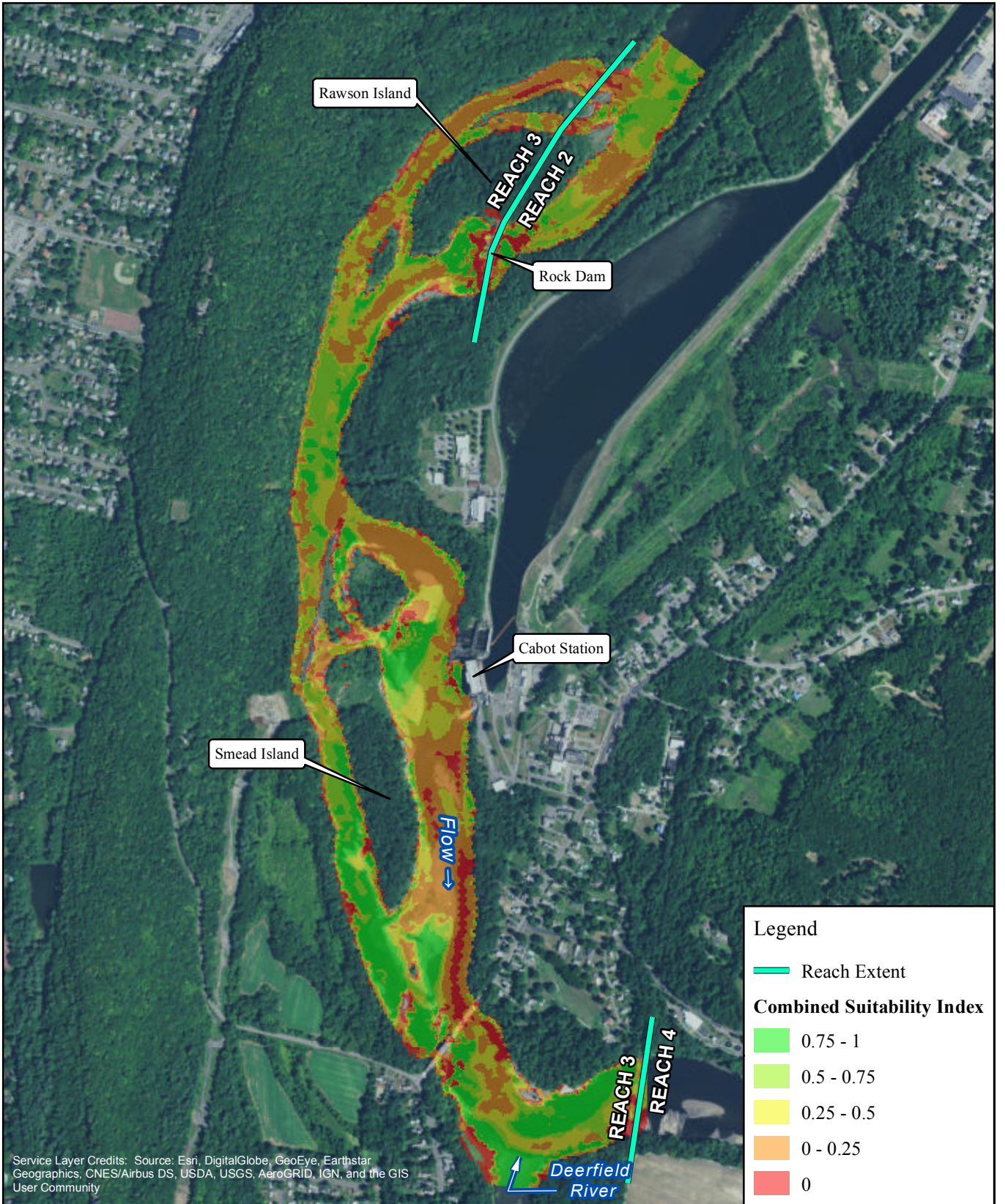
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Shortnose Sturgeon-Adult  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 3000 cfs  
 Deerfield Flow: 200 cfs

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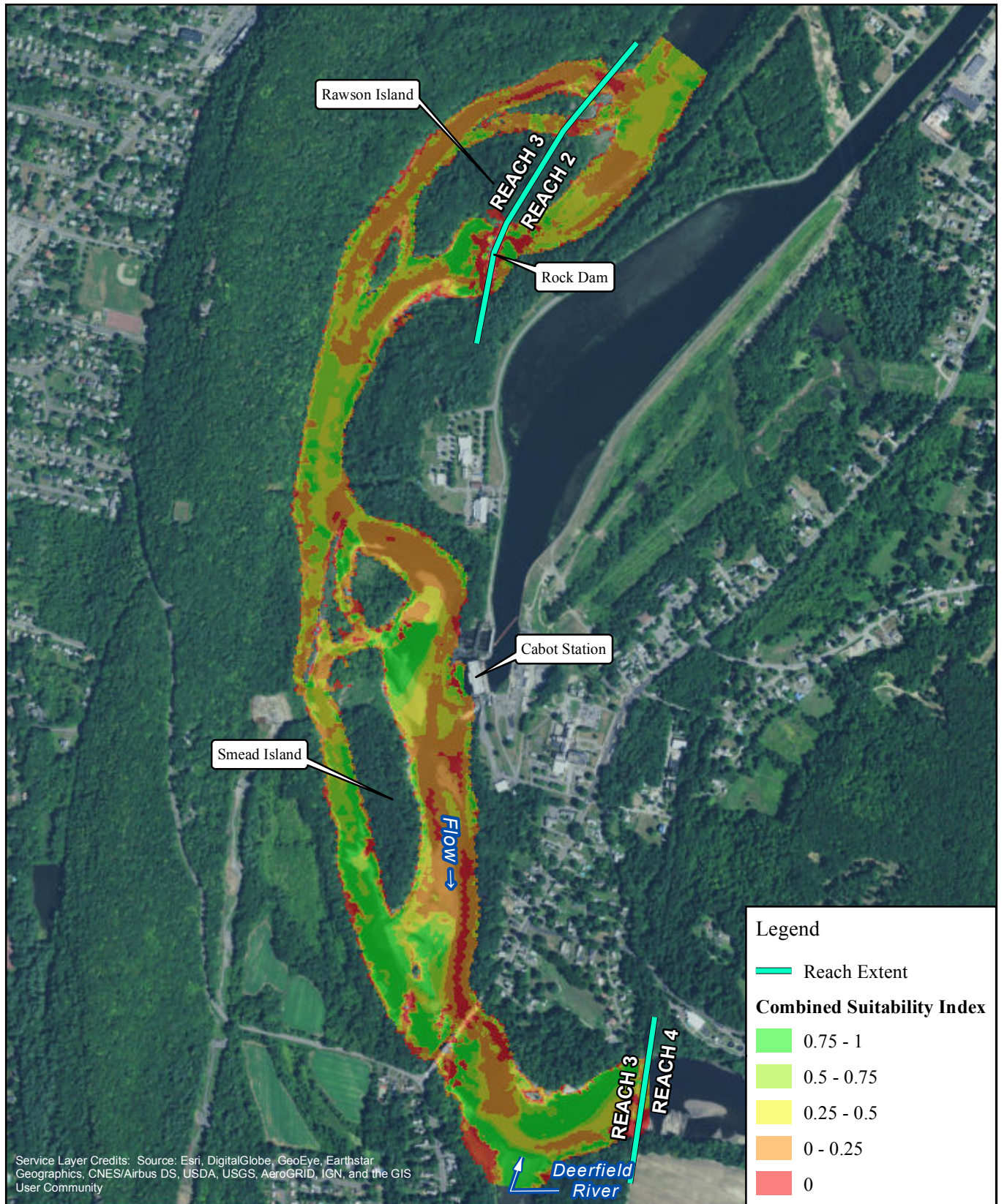
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 5000 cfs  
 Deerfield Flow: 200 cfs

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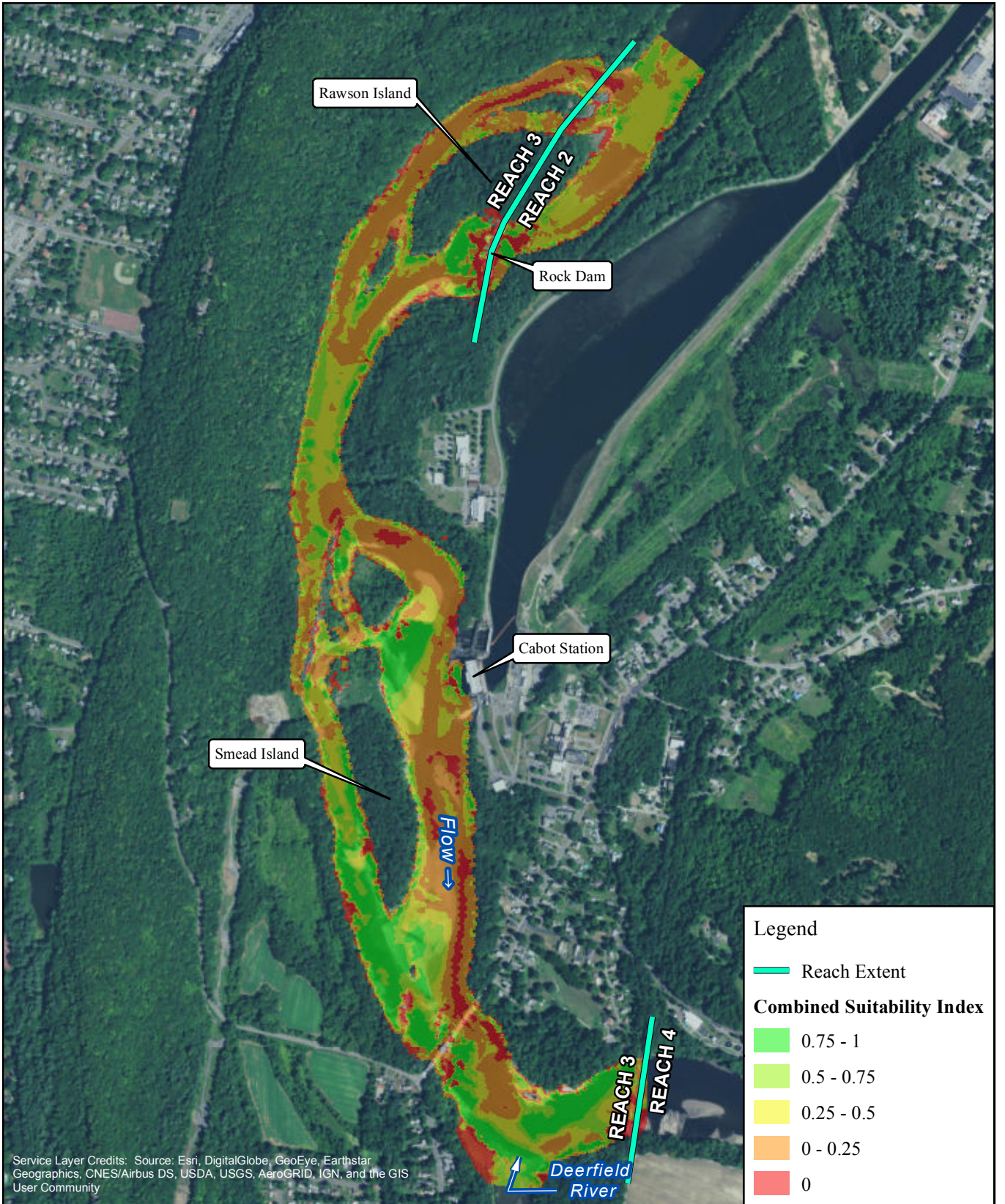
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
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**Legend**

- Reach Extent

**Combined Suitability Index**

0.75 - 1
0.5 - 0.75
0.25 - 0.5
0 - 0.25
0

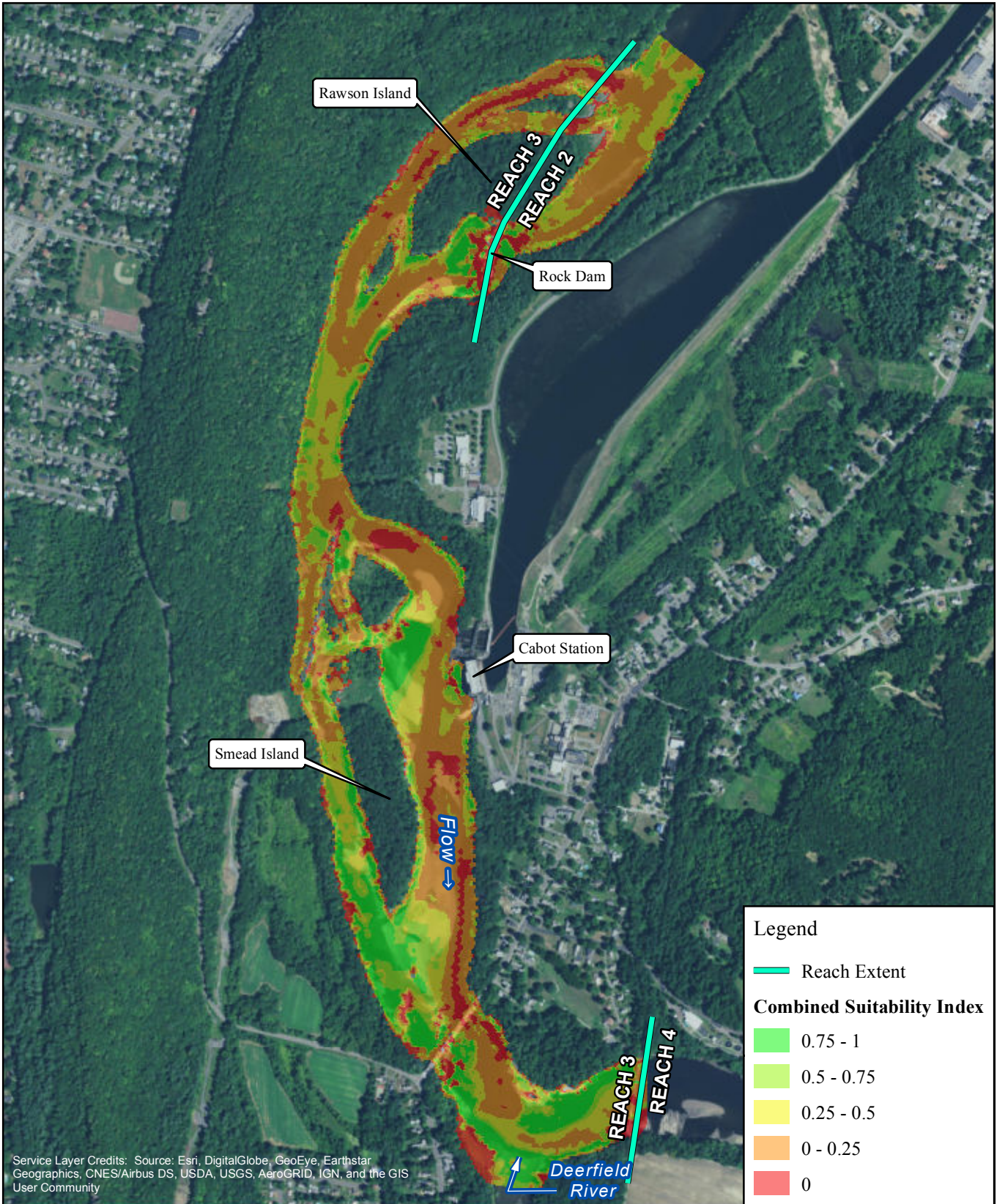
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
**RELICENSING STUDY 3.3.1**

**Shortnose Sturgeon-Adult**  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

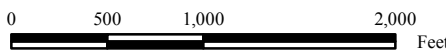
0 500 1,000 2,000 Feet

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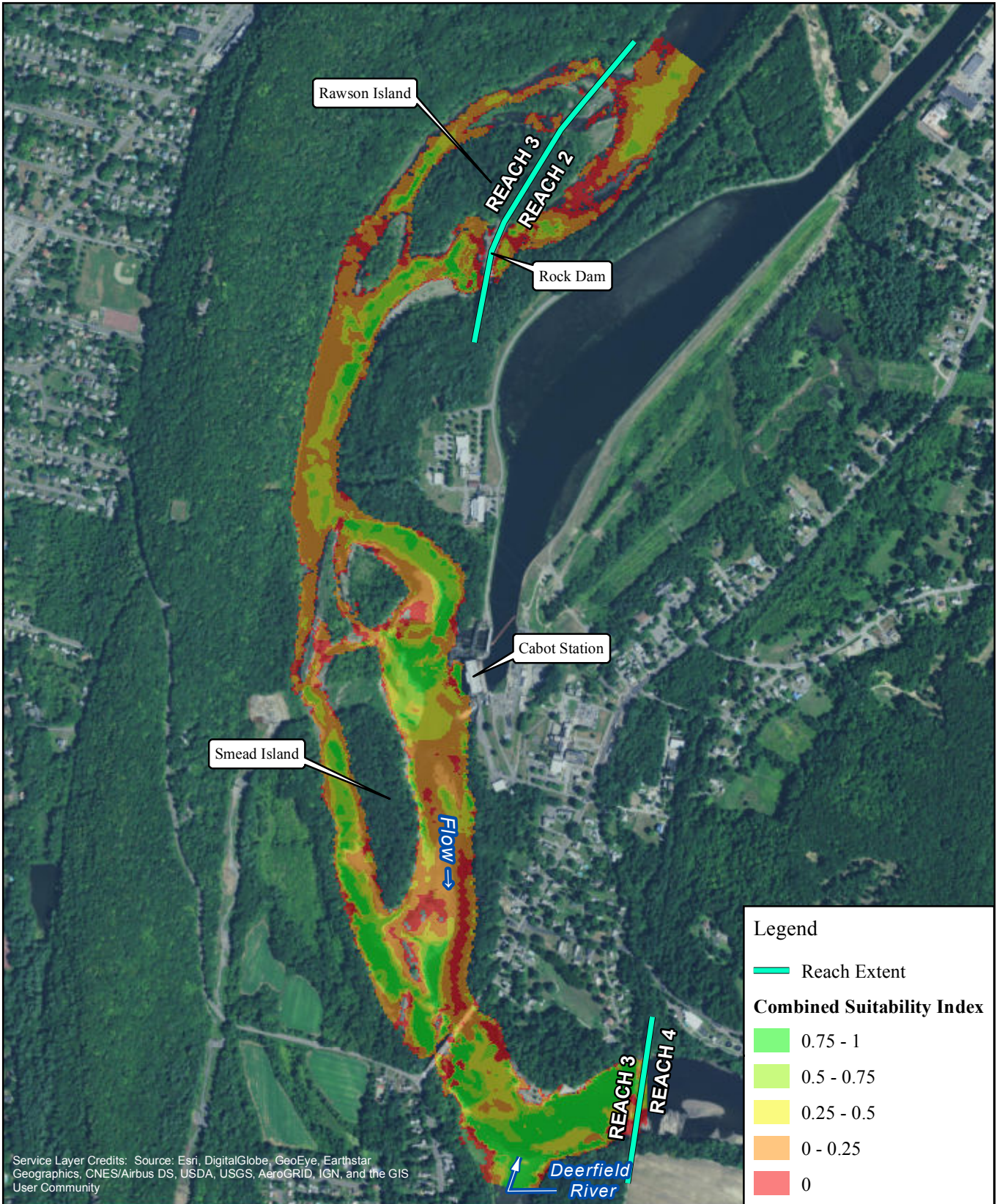
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 4500 cfs  
 Bypass Flow: 10000 cfs  
 Deerfield Flow: 200 cfs

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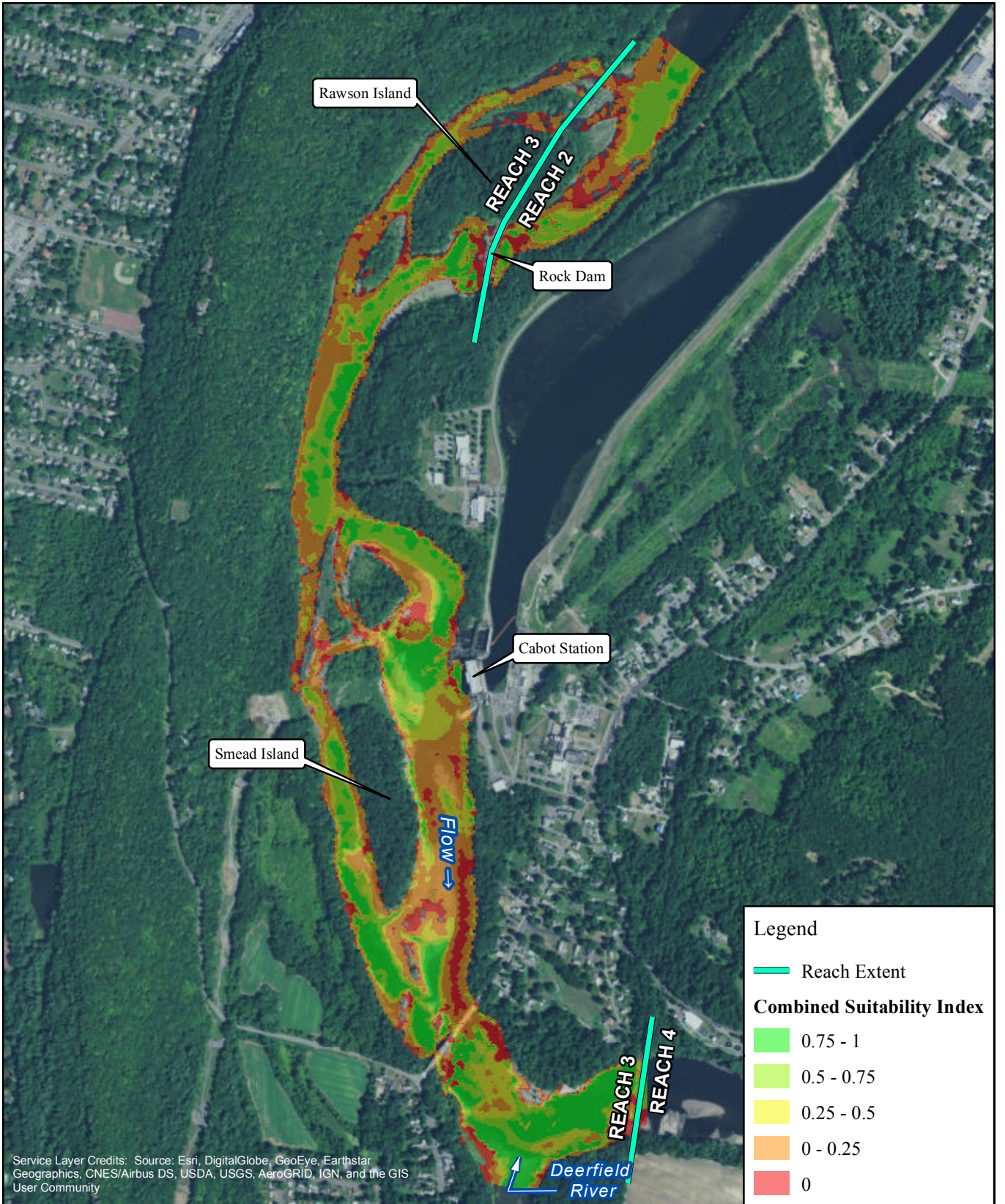
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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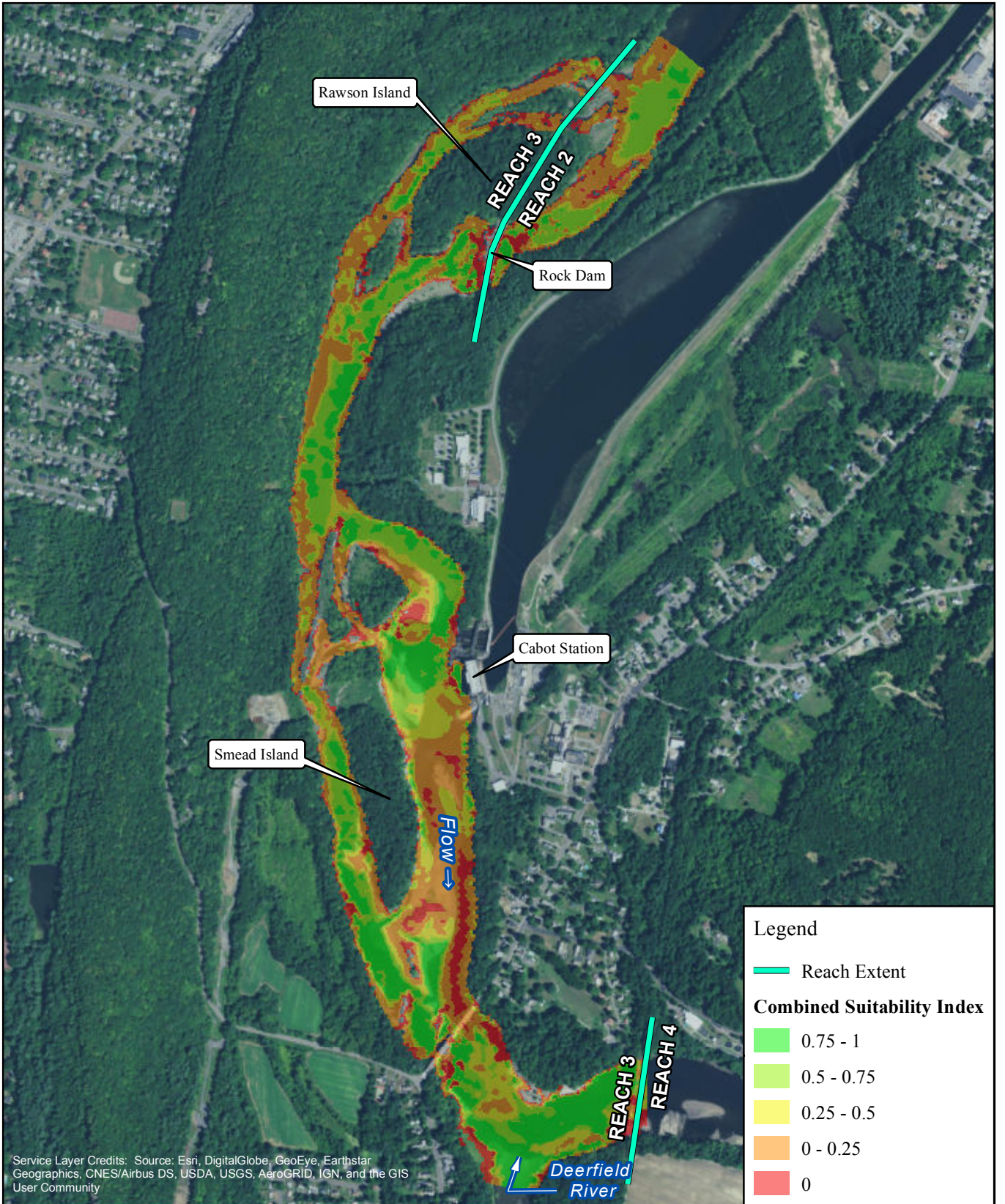
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

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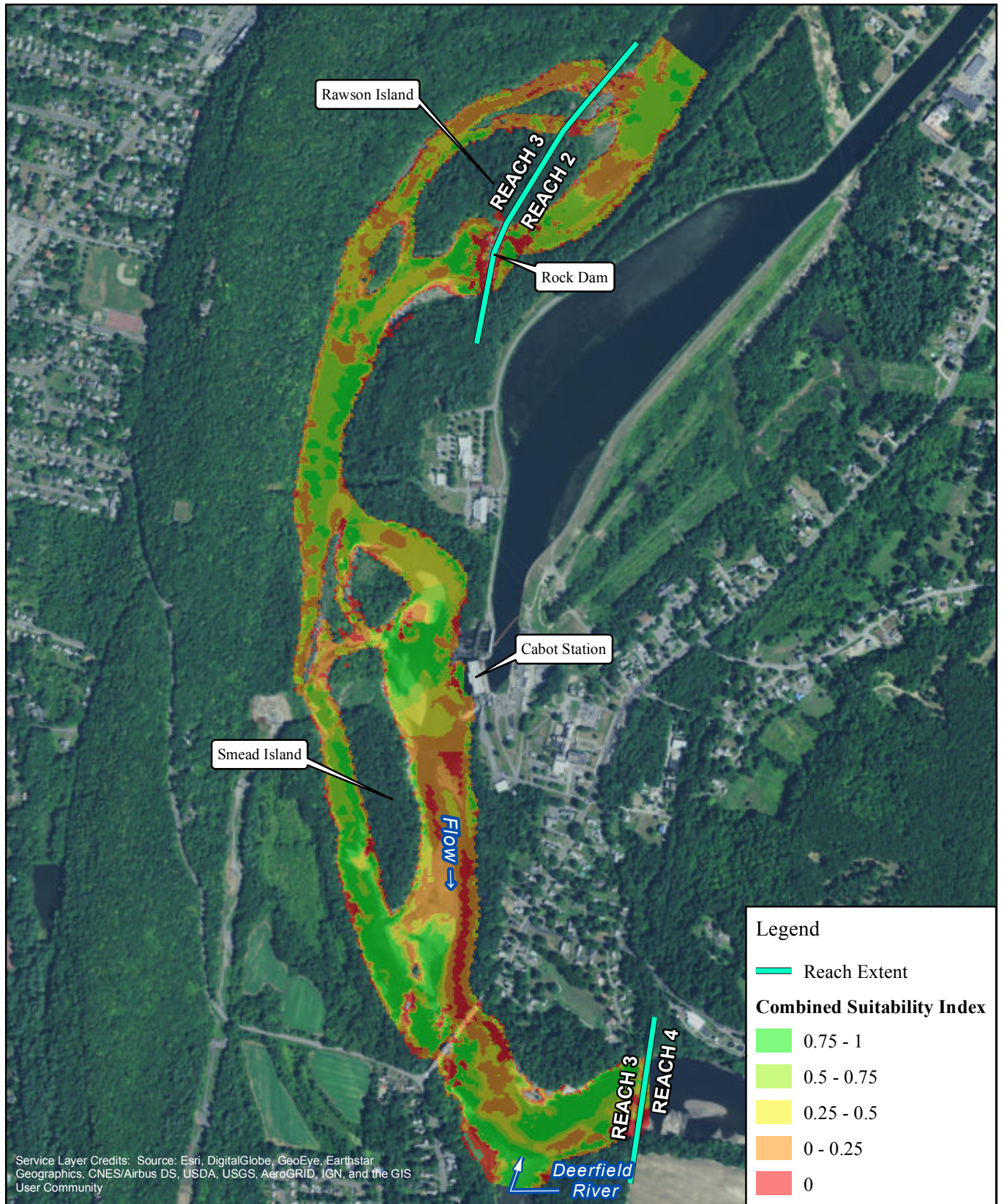
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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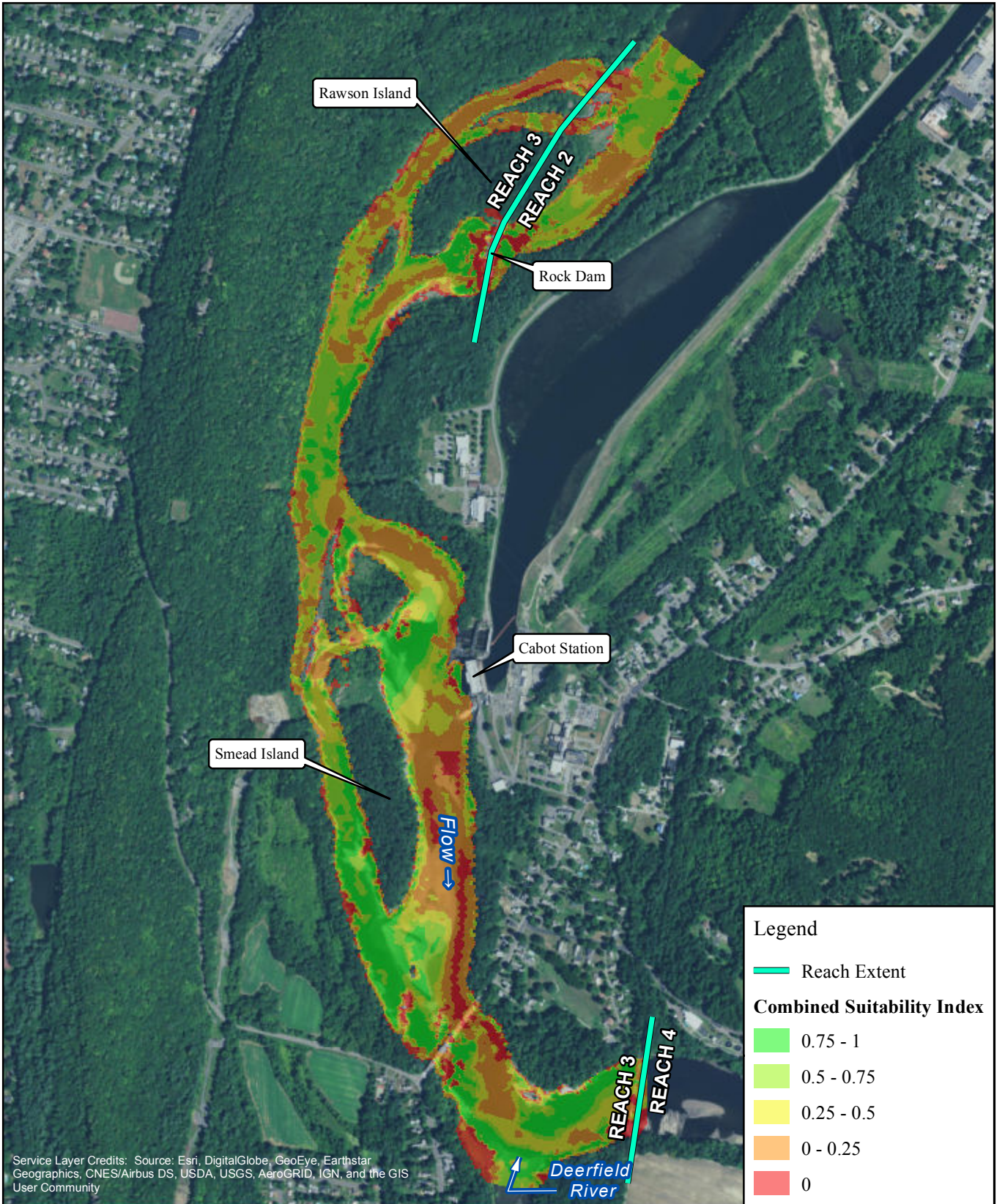
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 3000 cfs  
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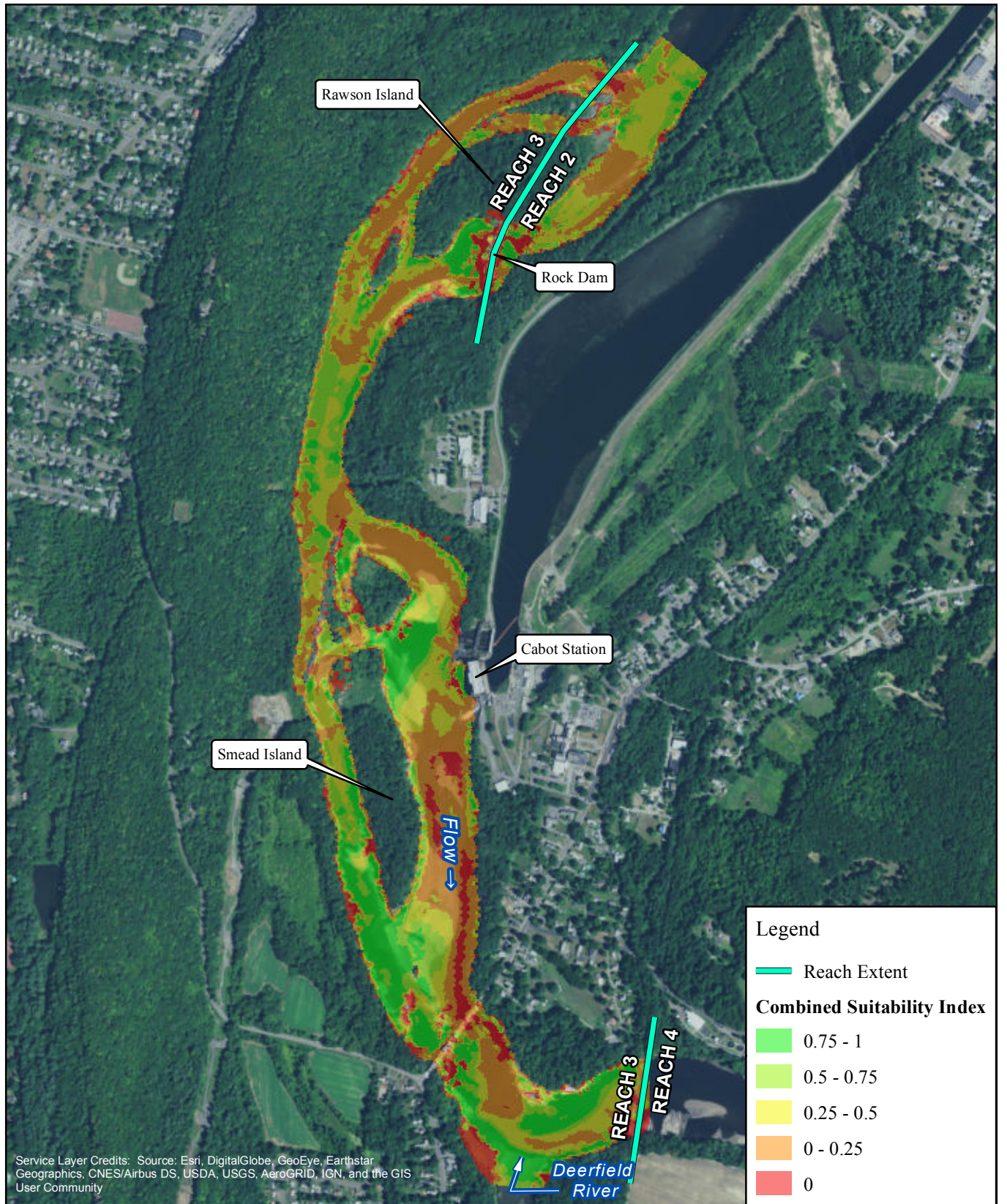
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
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 Bypass Flow: 5000 cfs  
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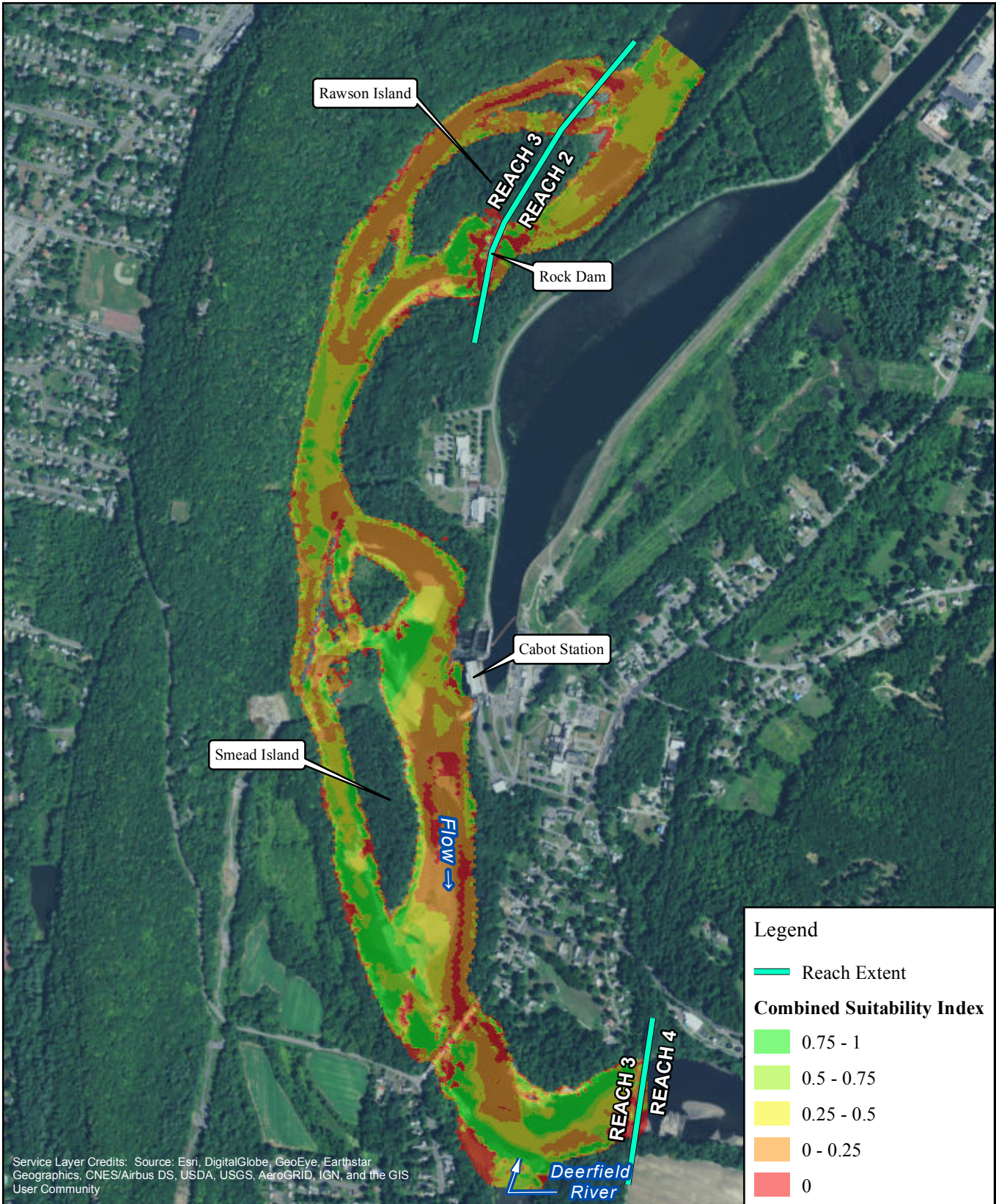
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 7000 cfs  
 Bypass Flow: 6500 cfs  
 Deerfield Flow: 200 cfs

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**Legend**

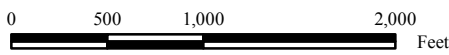
- Reach Extent

**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0



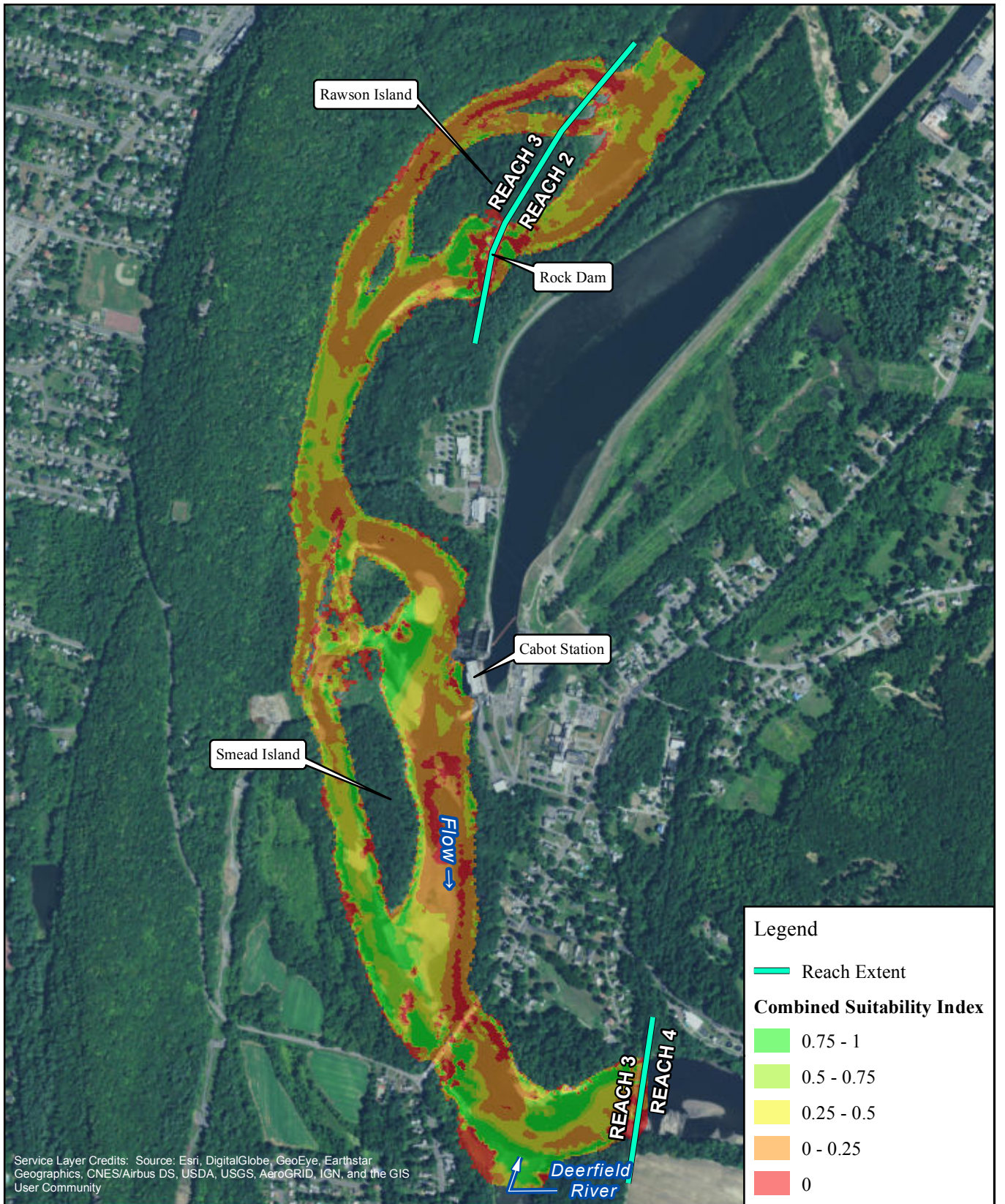
FIRSTLIGHT HYDRO GENERATING COMPANY  
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**Shortnose Sturgeon-Adult**  
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 Bypass Flow: 8000 cfs  
 Deerfield Flow: 200 cfs

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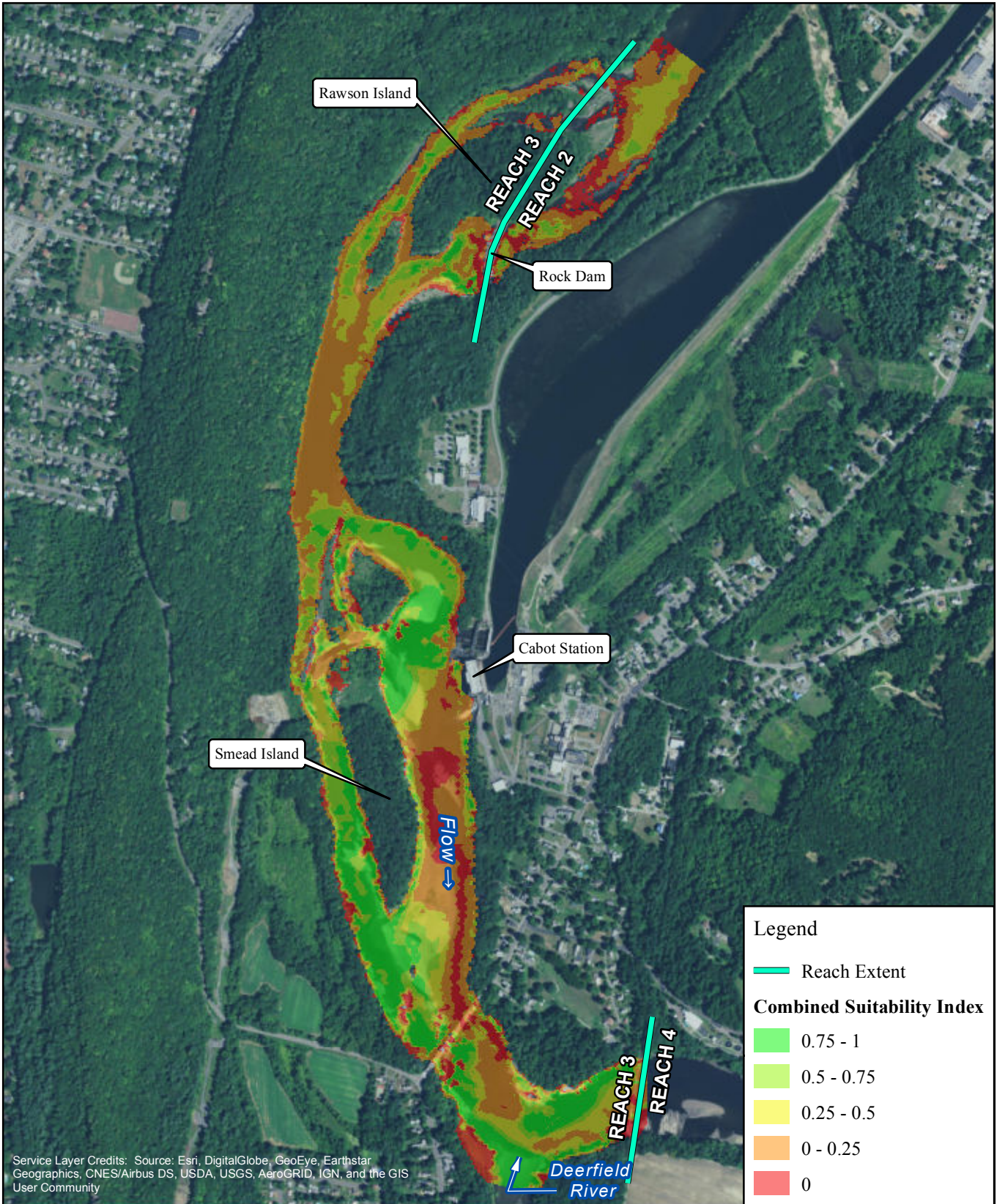
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
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Bypass Flow: 10000 cfs  
Deerfield Flow: 200 cfs

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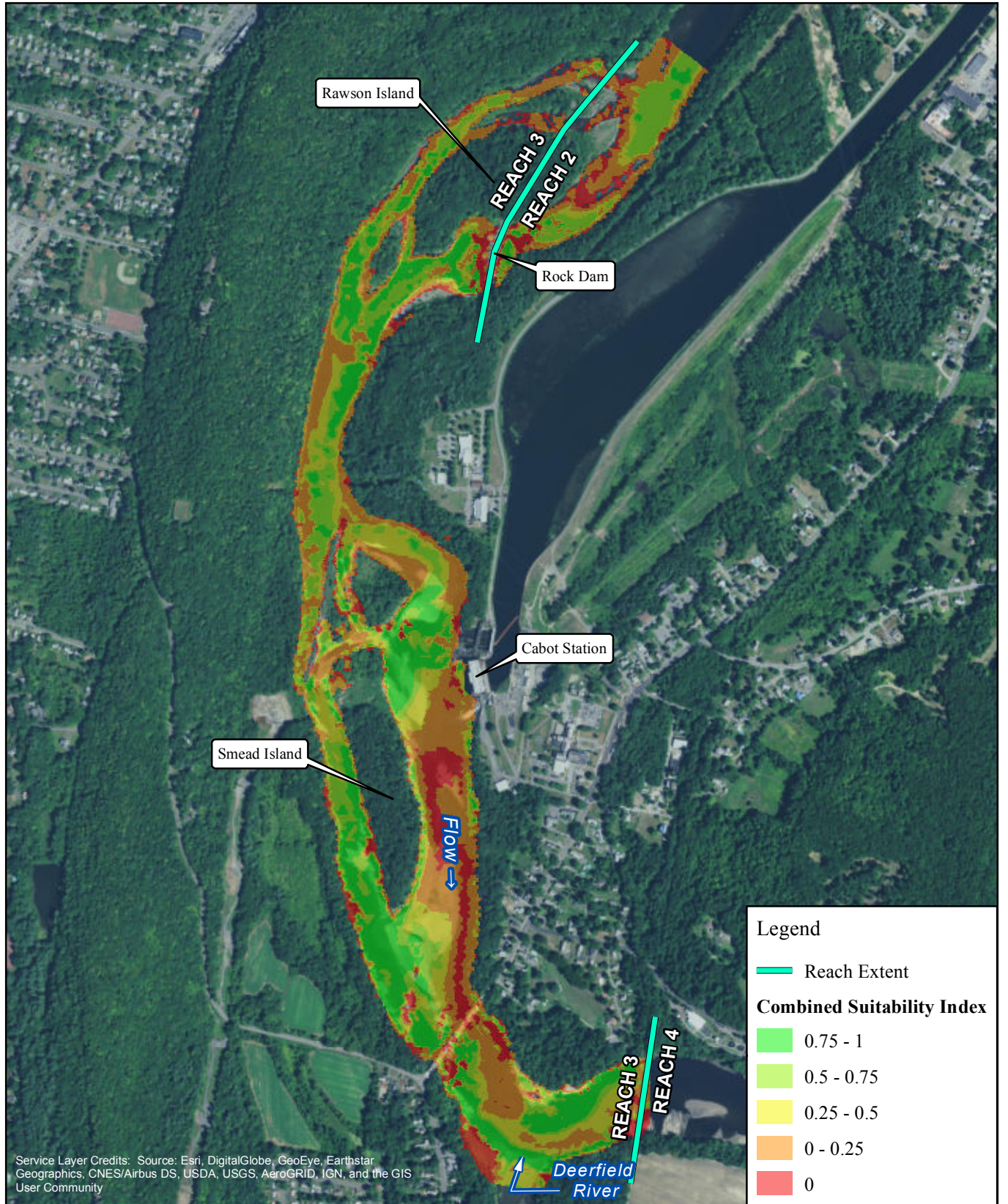
FIRSTLIGHT HYDRO GENERATING COMPANY  
 Northfield Mountain Pumped Storage Project No. 2485  
 Turners Falls Hydroelectric Project No. 1889  
 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Adult  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 200 cfs  
 Deerfield Flow: 200 cfs

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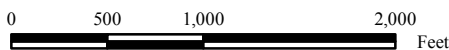




Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



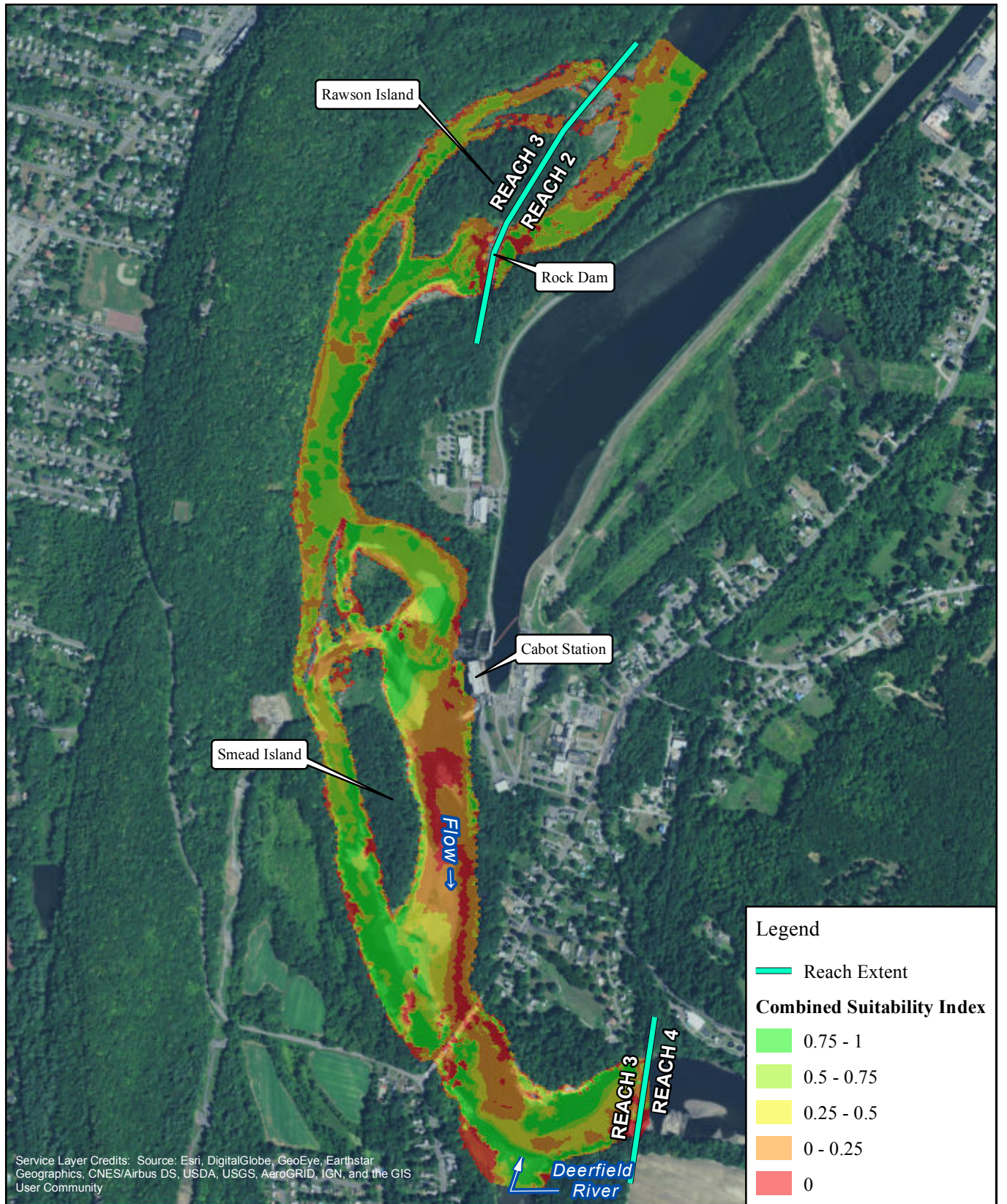
FIRSTLIGHT HYDRO GENERATING COMPANY  
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 RELICENSING STUDY 3.3.1



Shortnose Sturgeon-Adult  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 500 cfs  
 Deerfield Flow: 200 cfs

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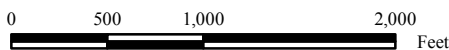




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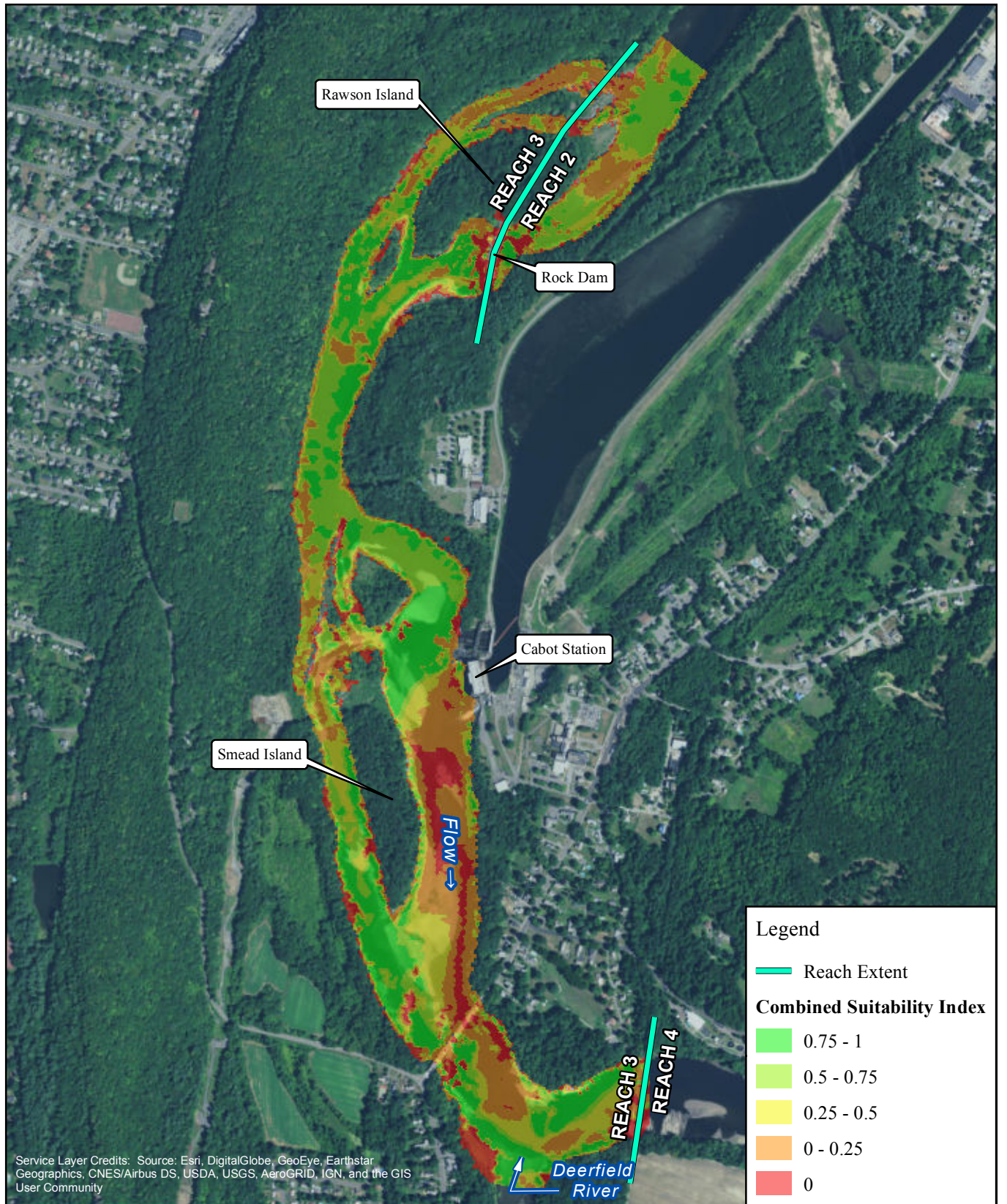
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
 Cabot Flow: 14000 cfs  
 Bypass Flow: 1000 cfs  
 Deerfield Flow: 200 cfs

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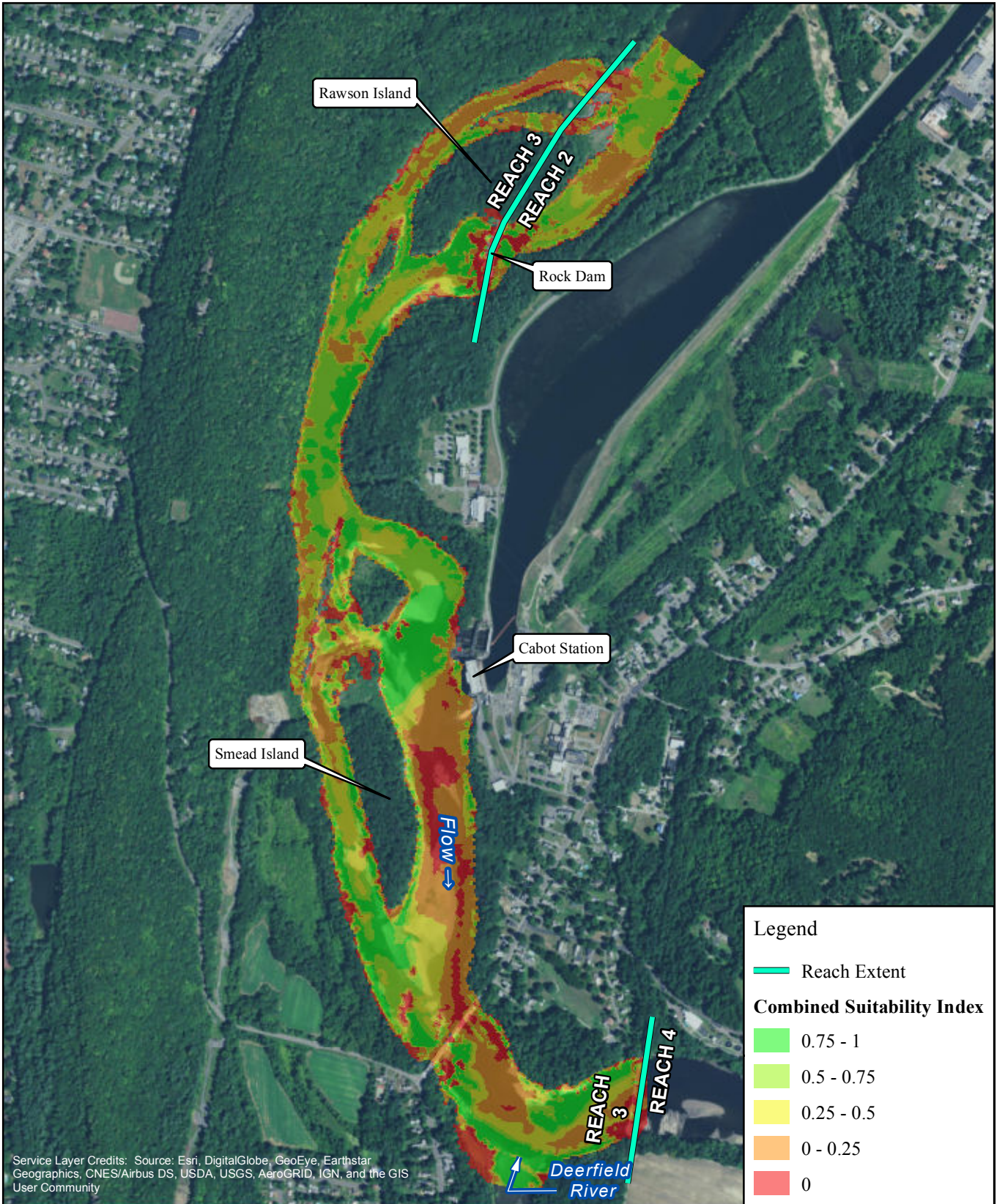
FIRSTLIGHT HYDRO GENERATING COMPANY  
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Shortnose Sturgeon-Adult  
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**Legend**

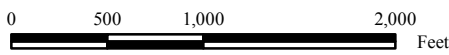
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**Combined Suitability Index**

- 0.75 - 1
- 0.5 - 0.75
- 0.25 - 0.5
- 0 - 0.25
- 0



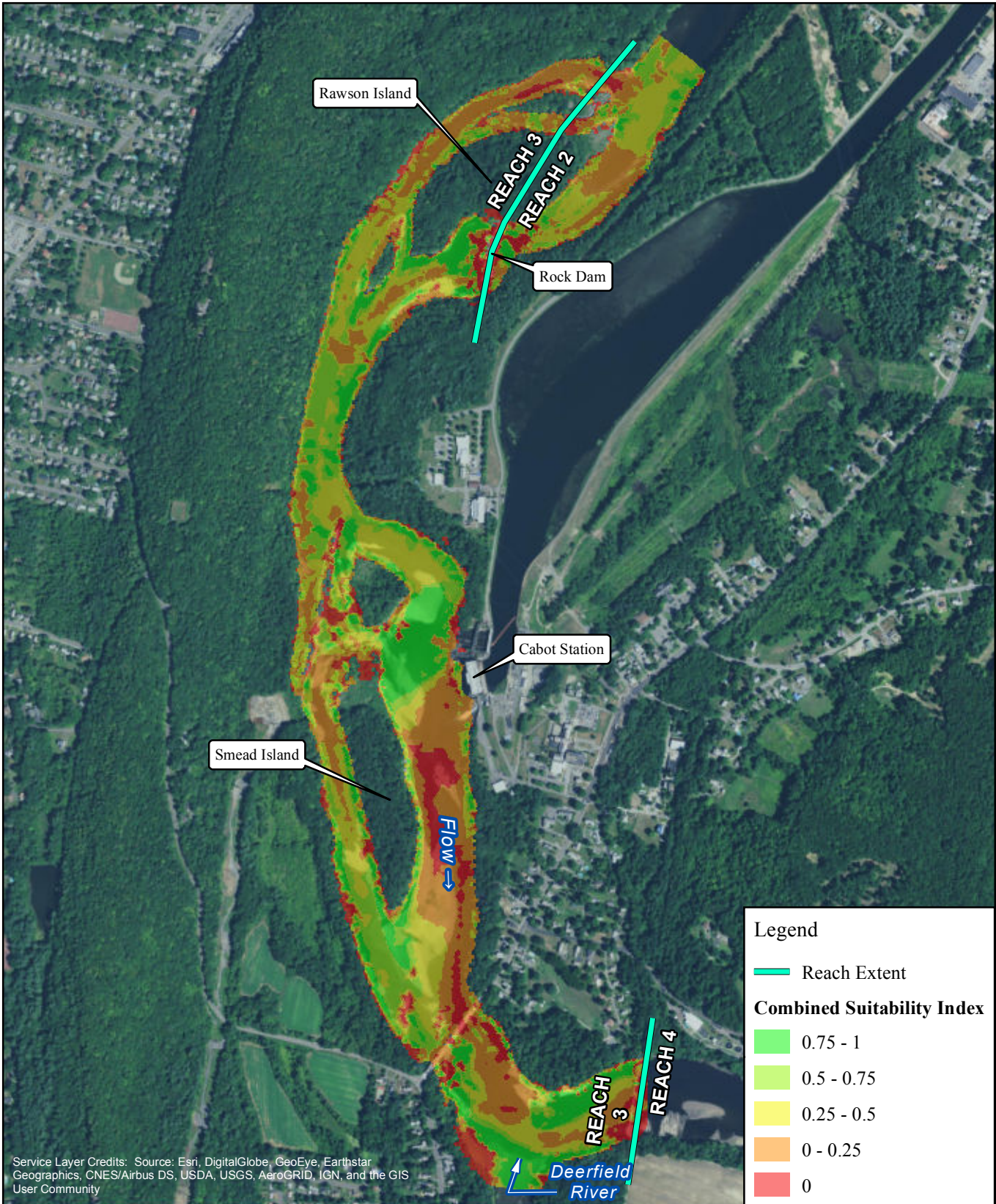
FIRSTLIGHT HYDRO GENERATING COMPANY  
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**RELICENSING STUDY 3.3.1**



**Shortnose Sturgeon-Adult**  
 Cabot Flow: 14000 cfs  
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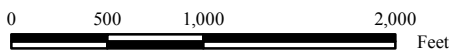




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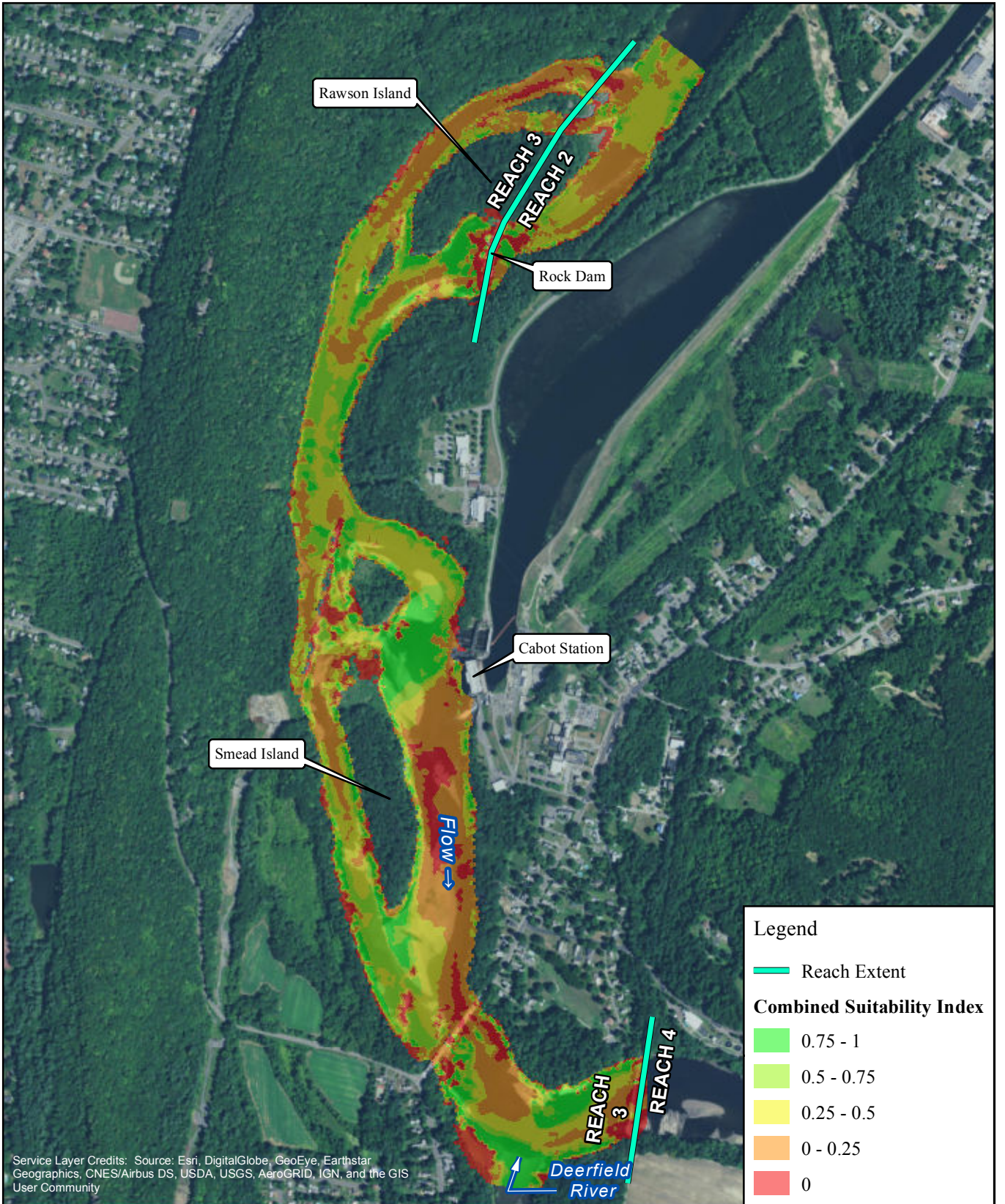
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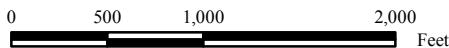
Shortnose Sturgeon-Adult  
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 Bypass Flow: 6500 cfs  
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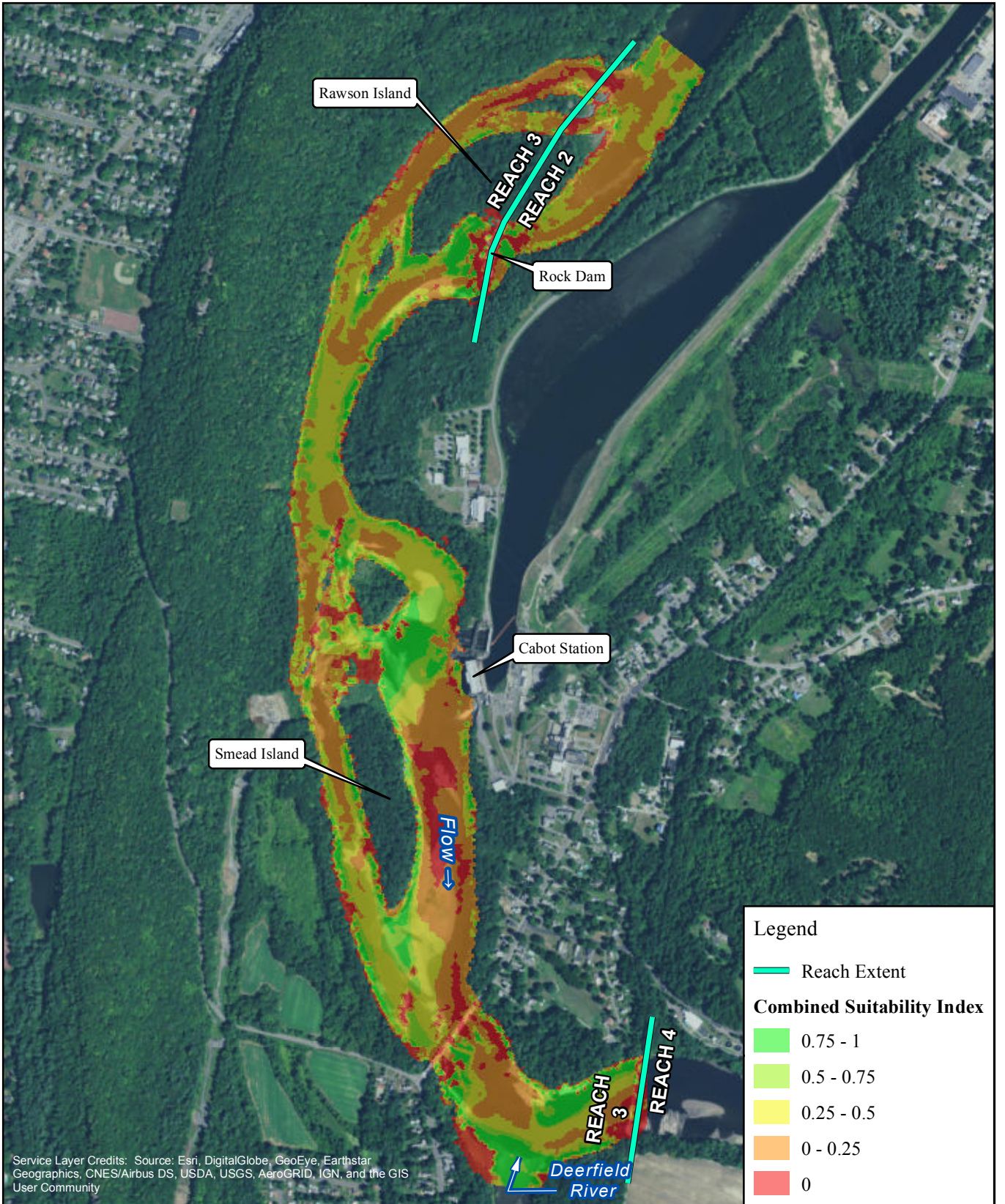
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