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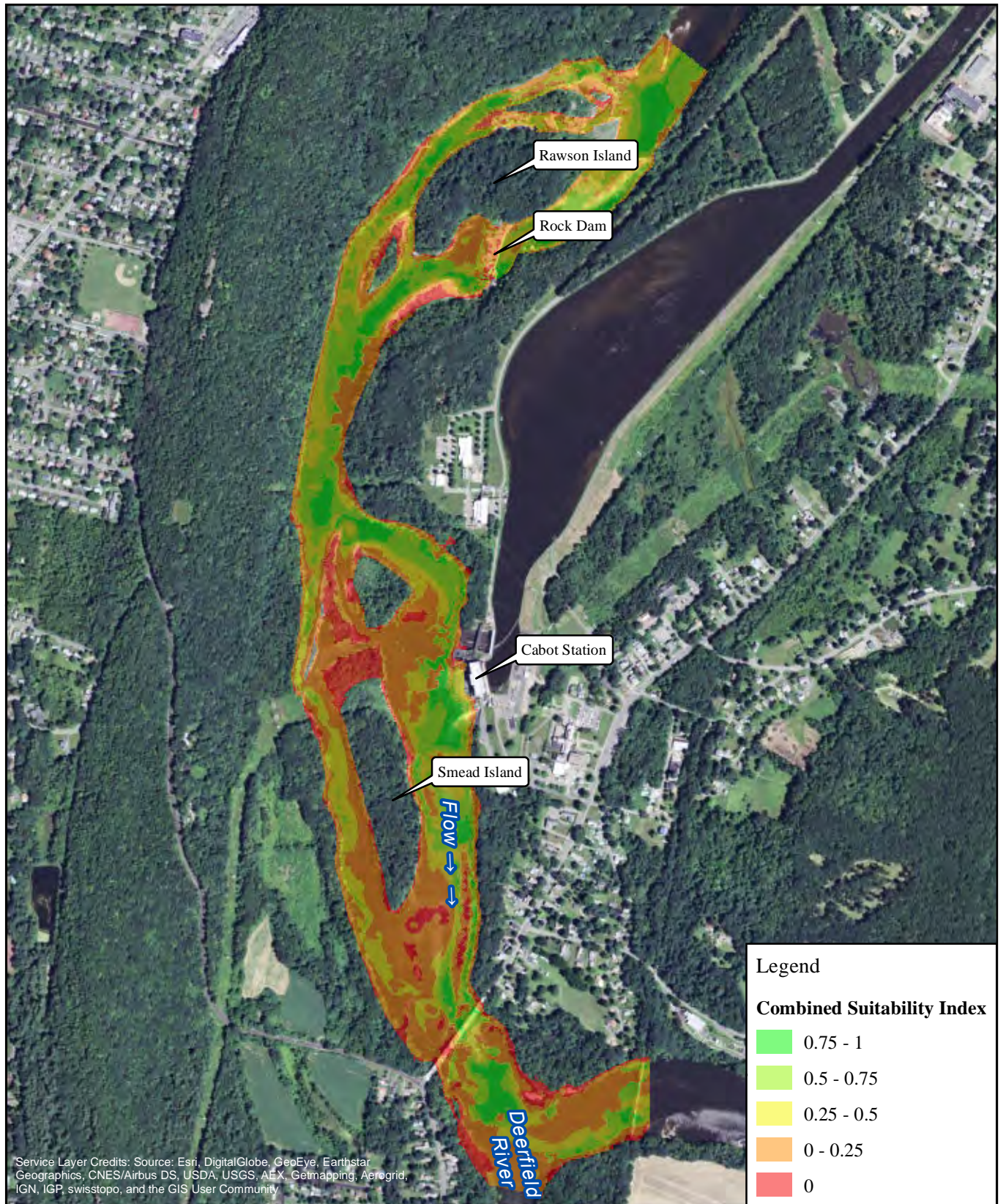
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000 Feet

American Shad-Spawning
Cabot Flow: 2500 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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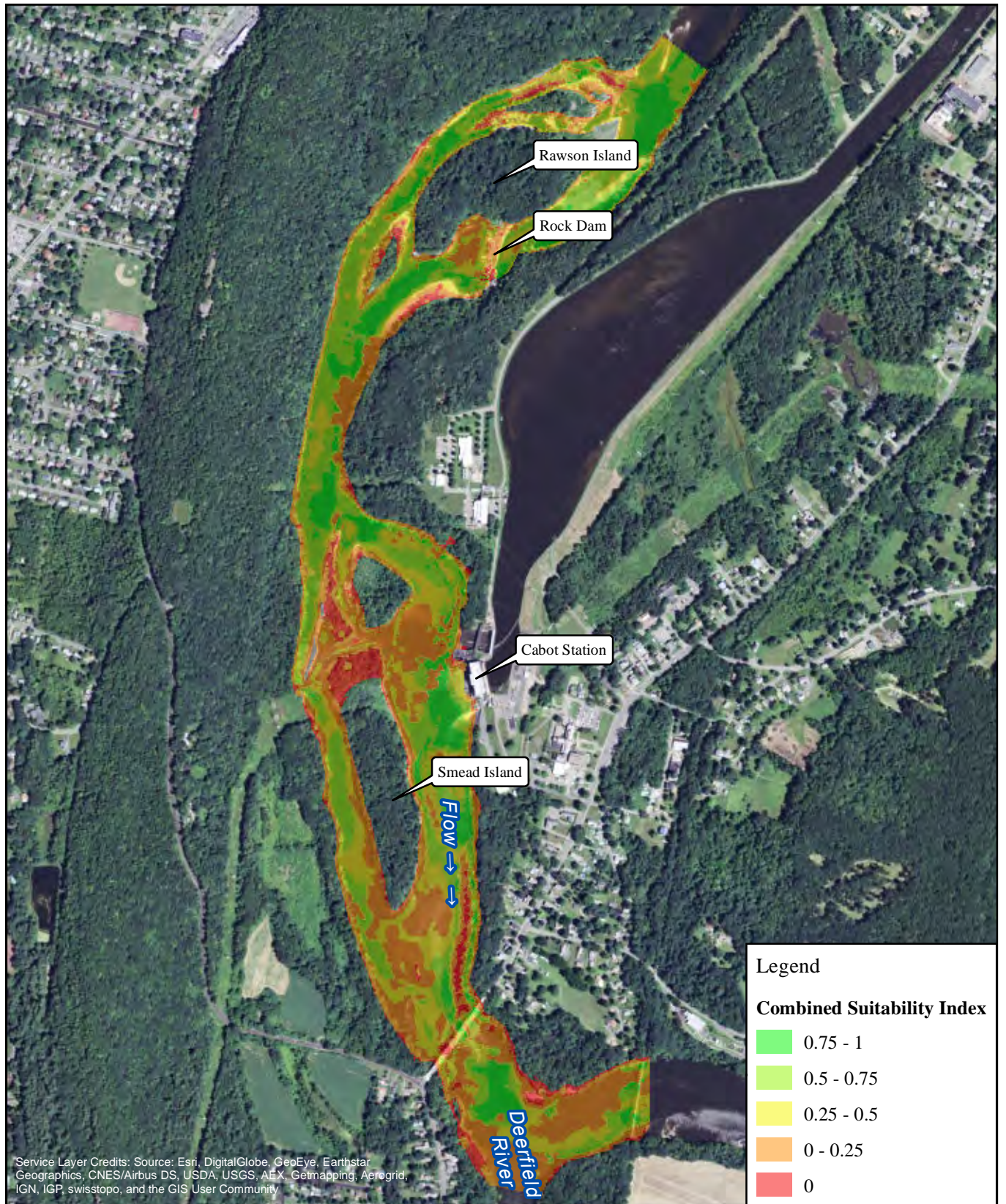
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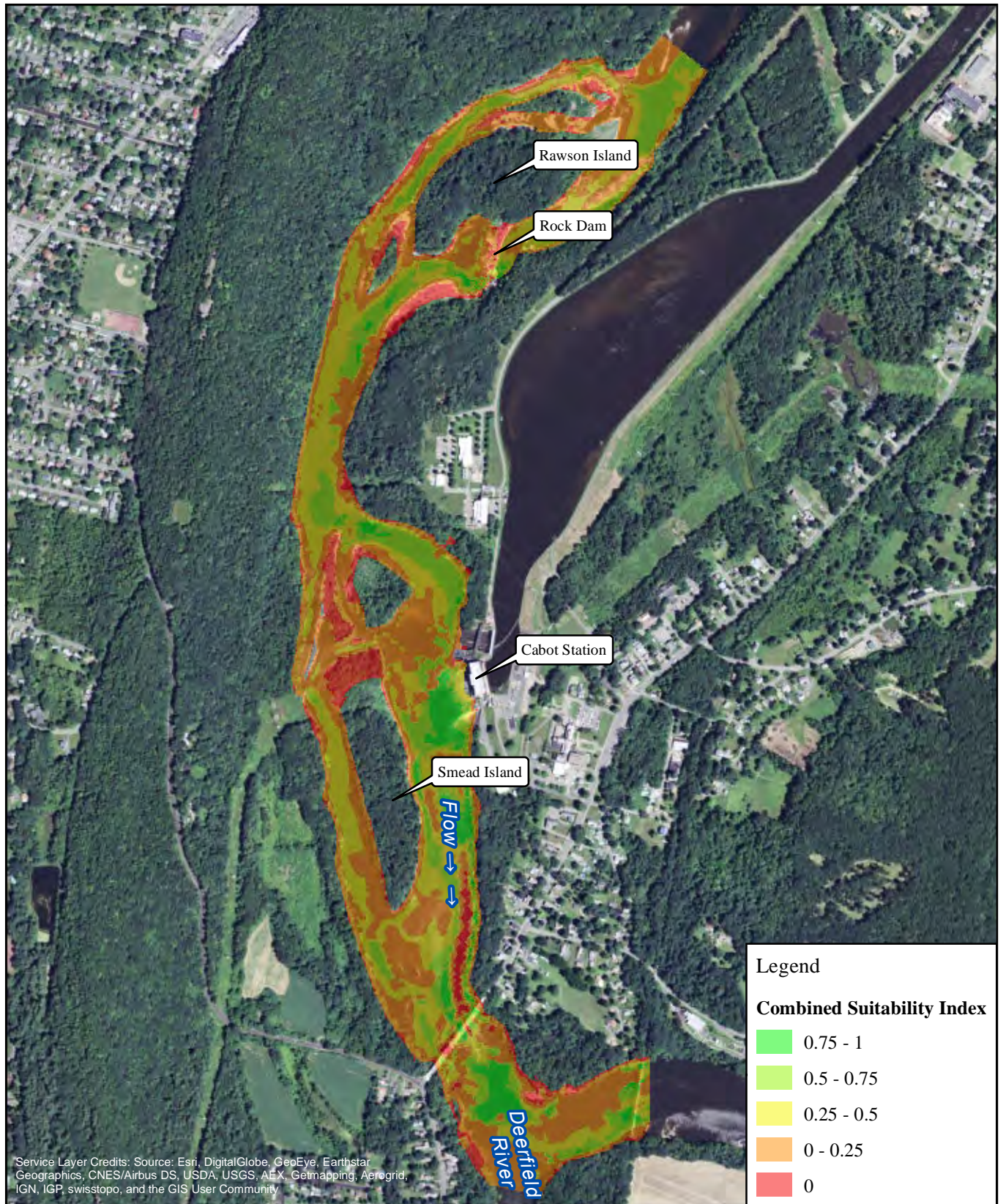
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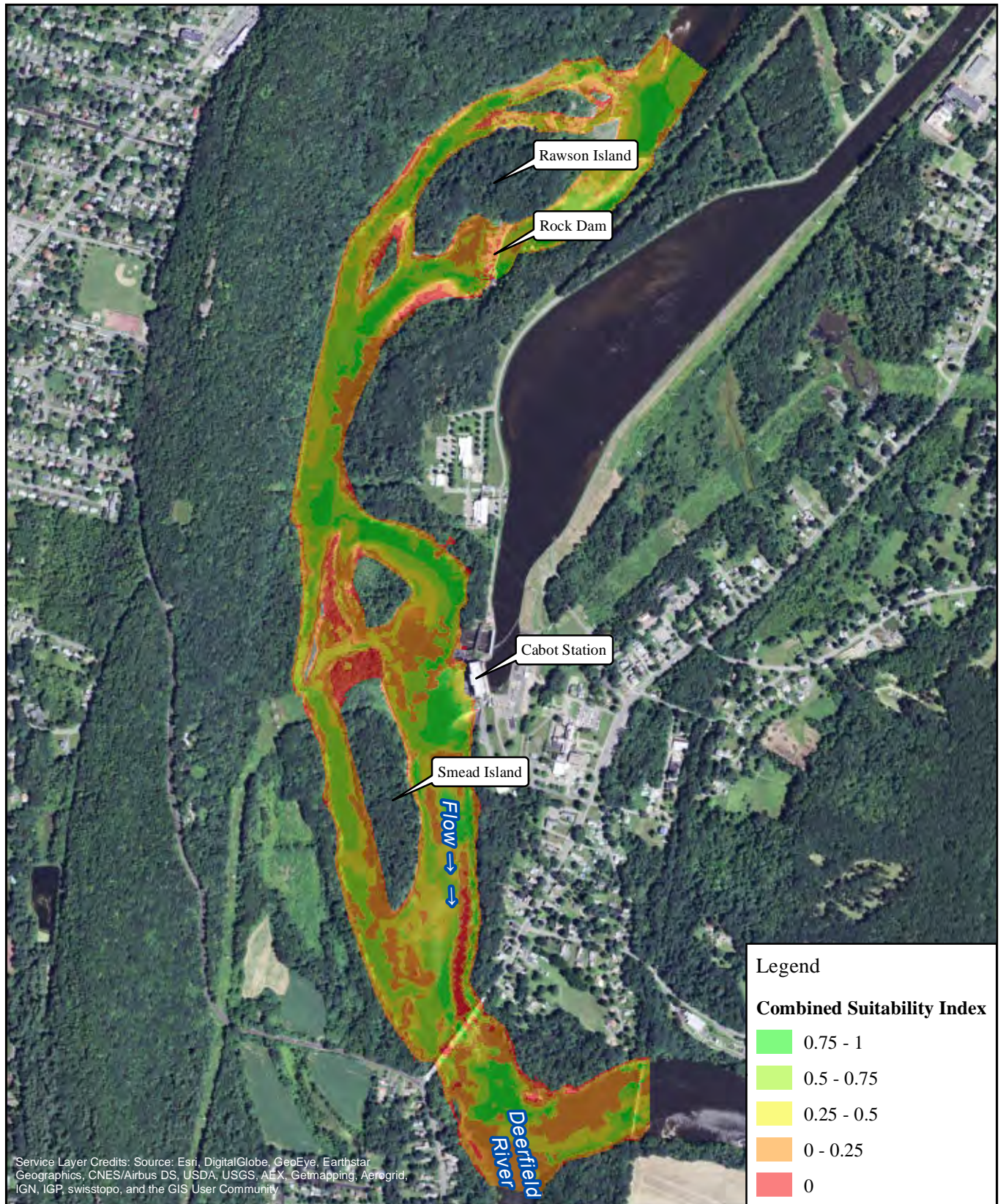
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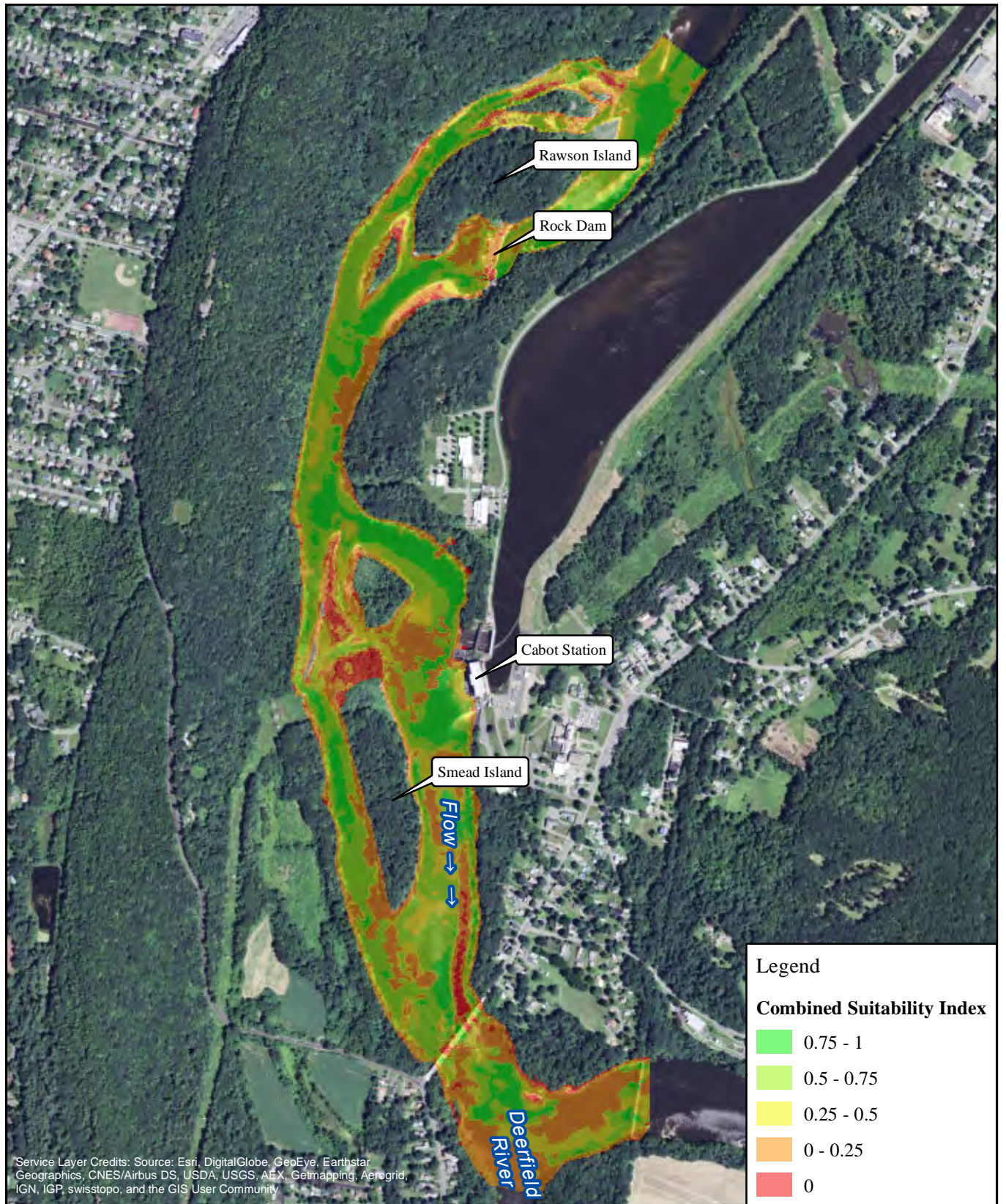
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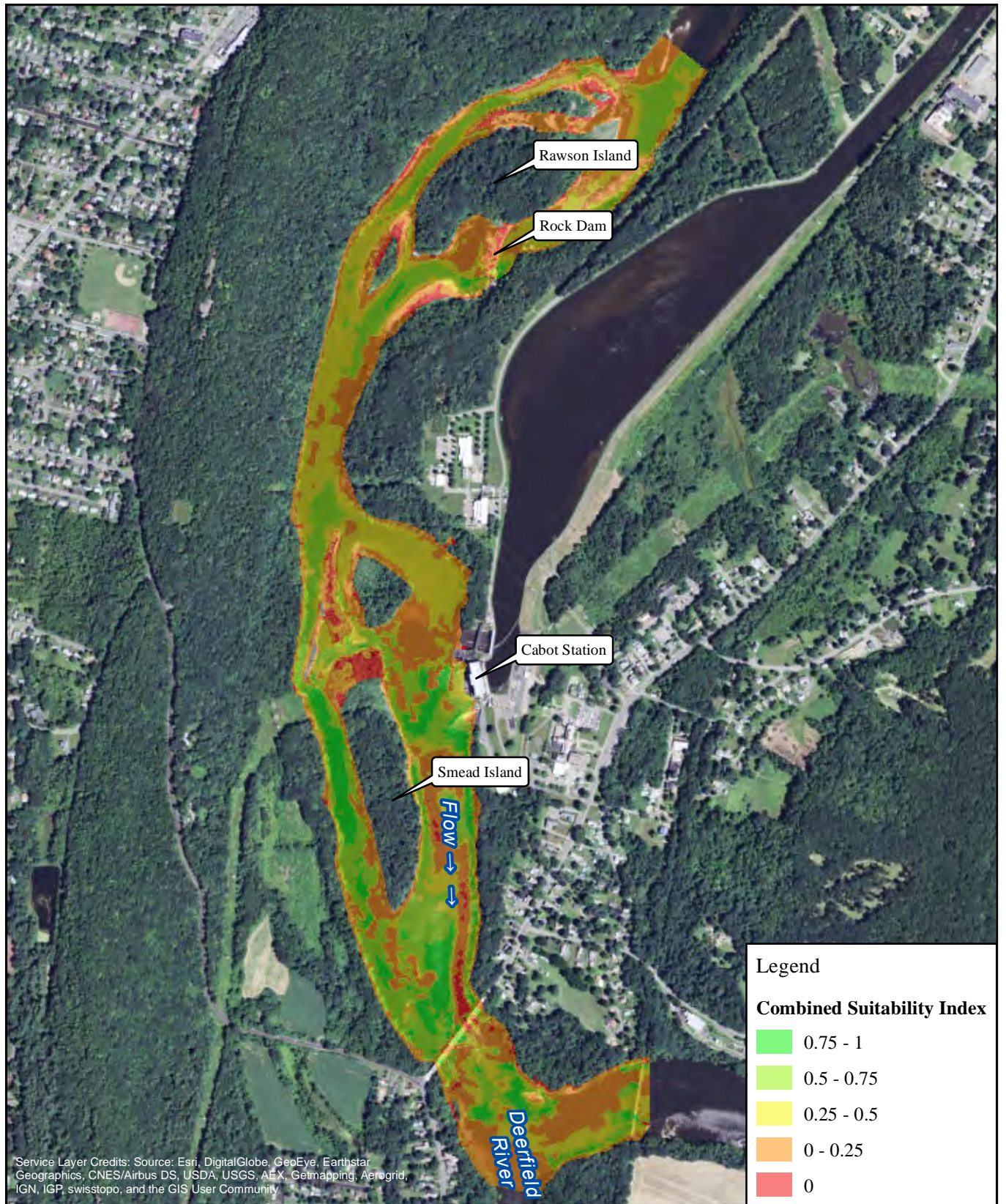
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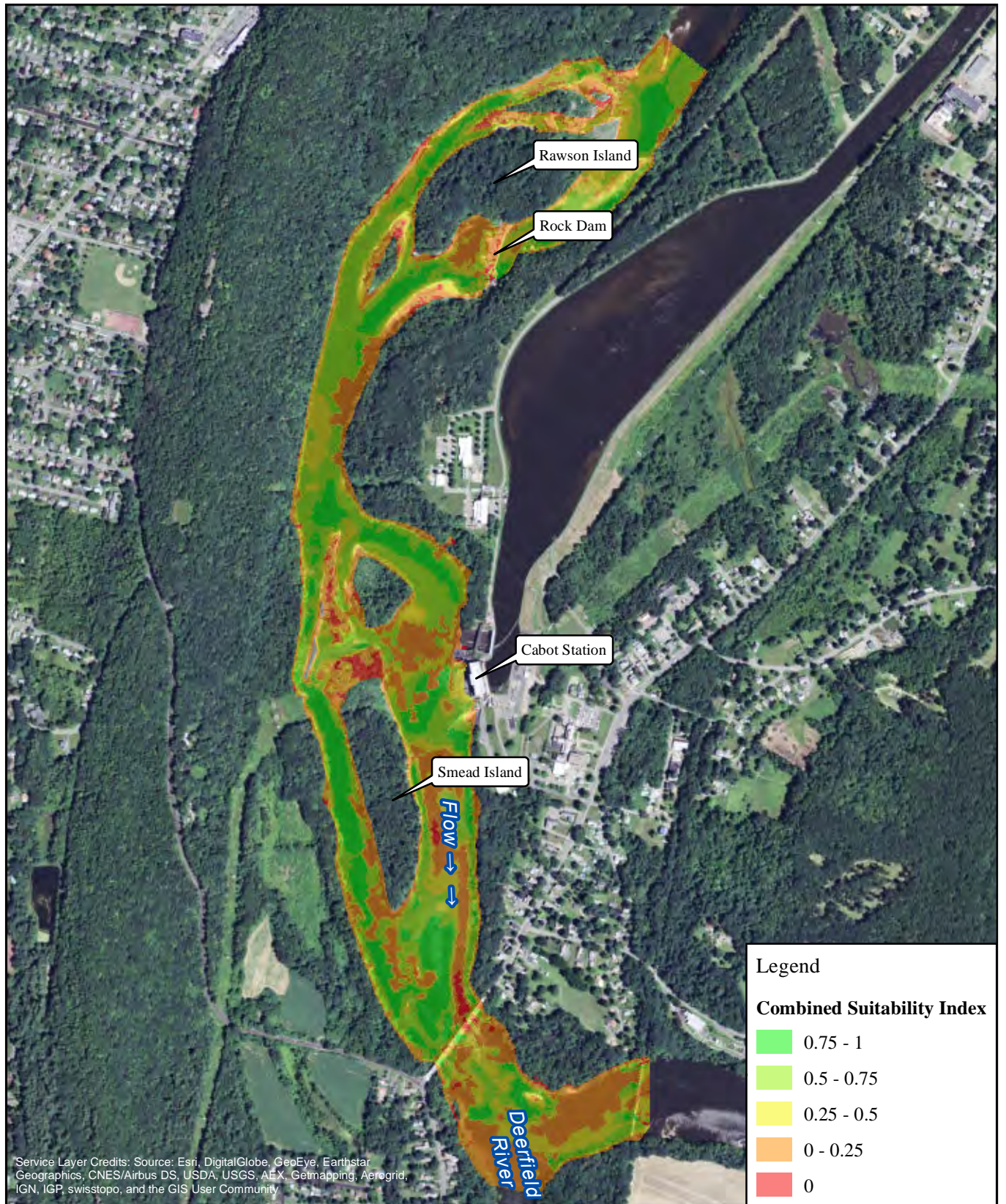
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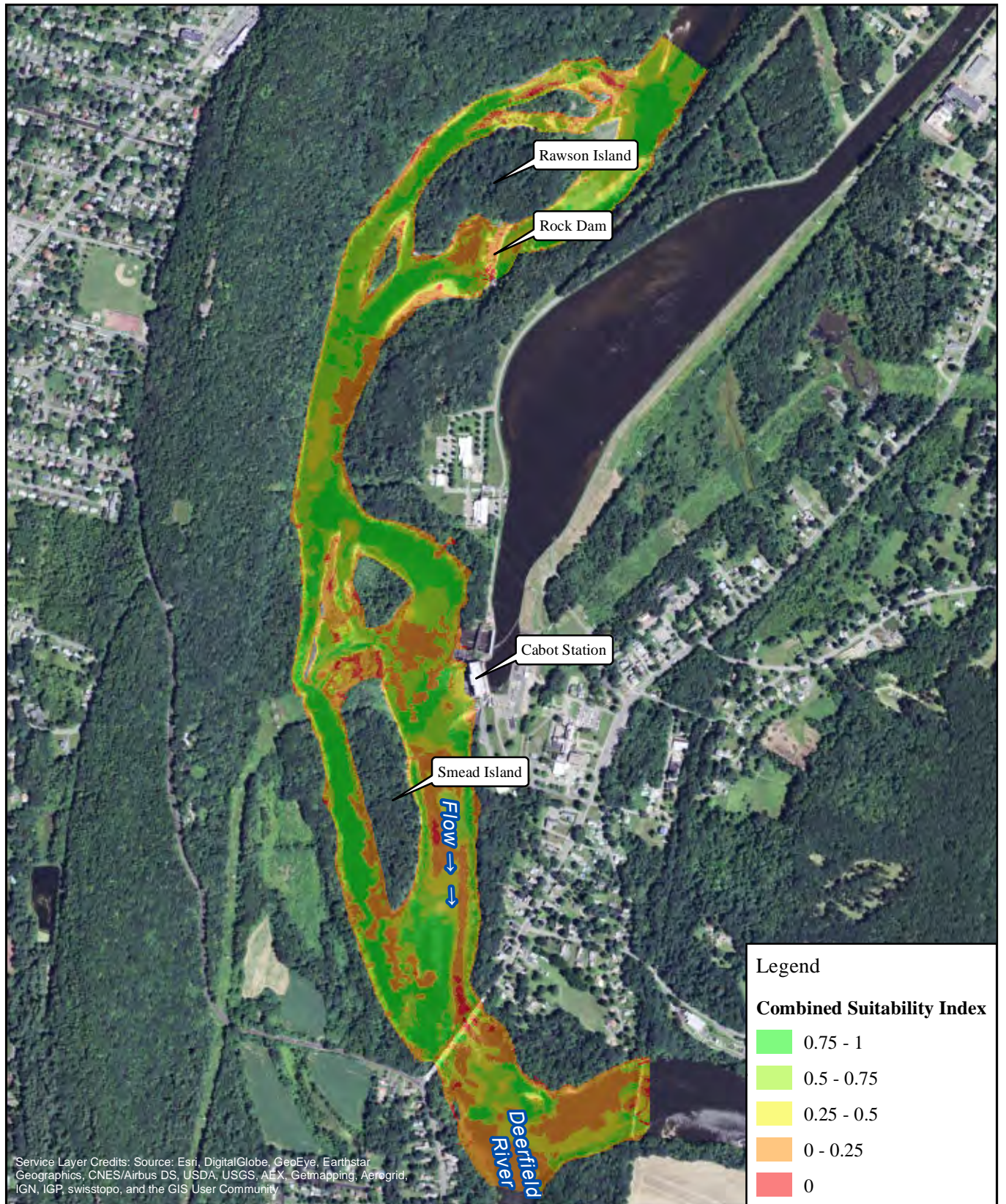
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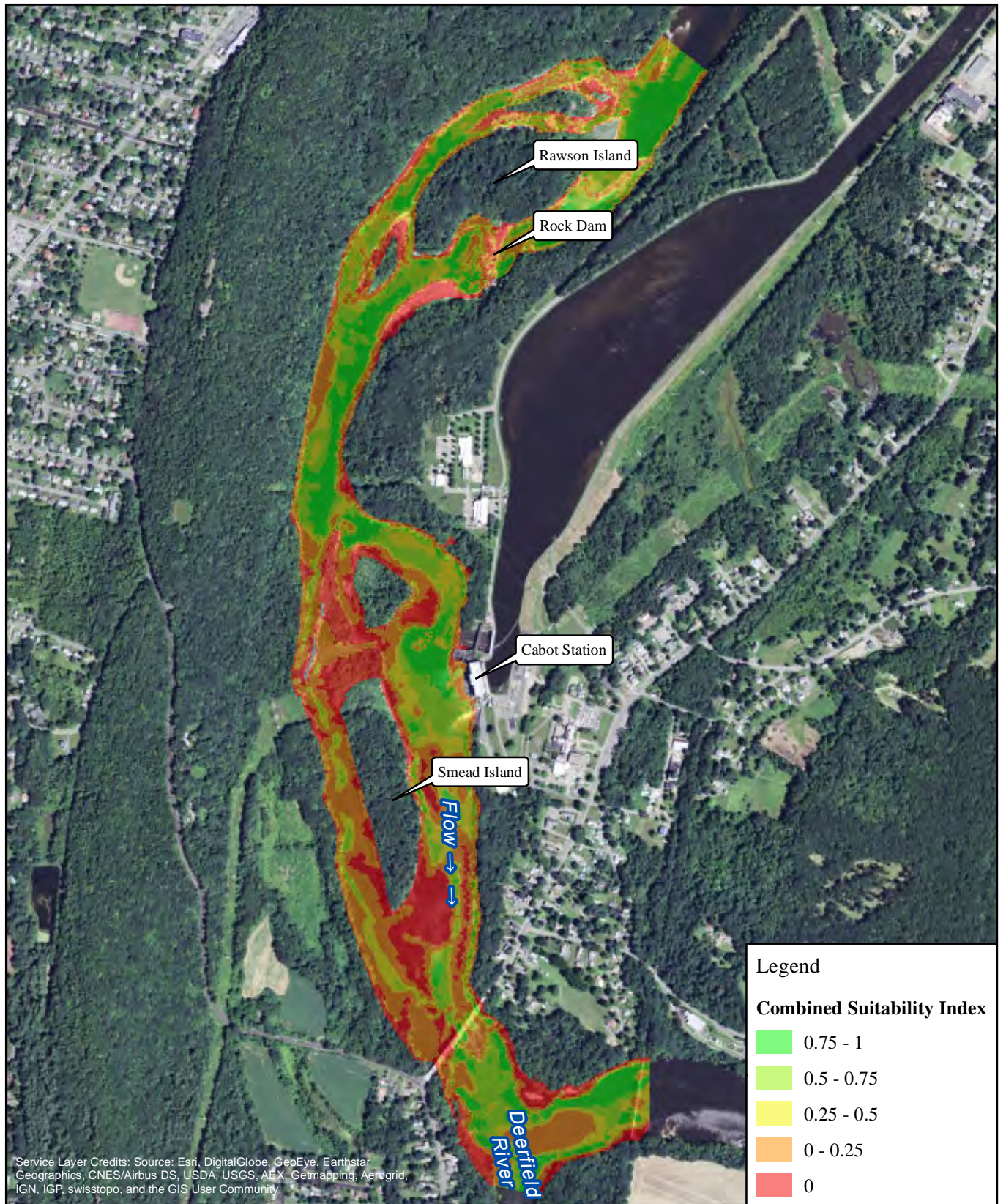
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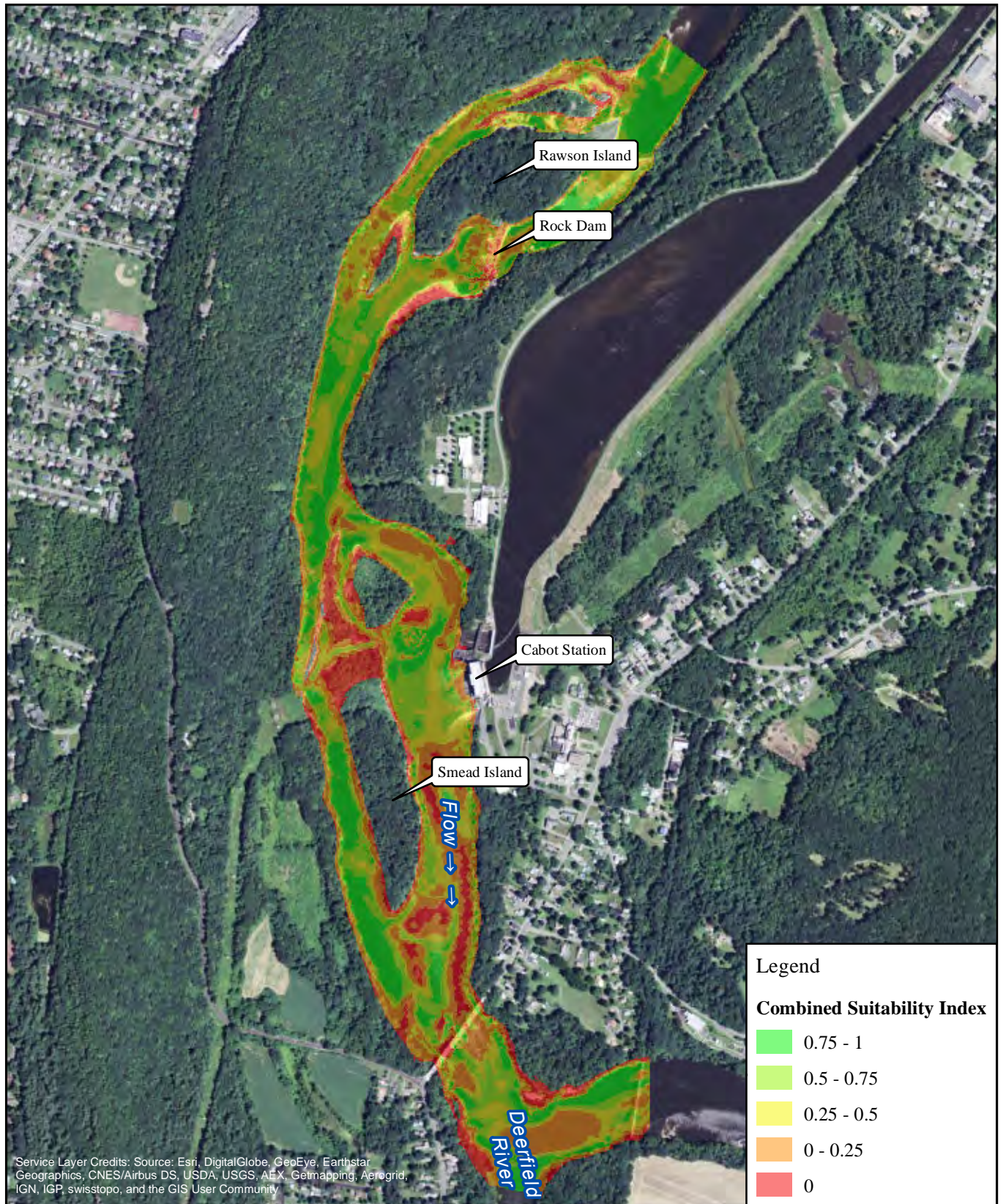
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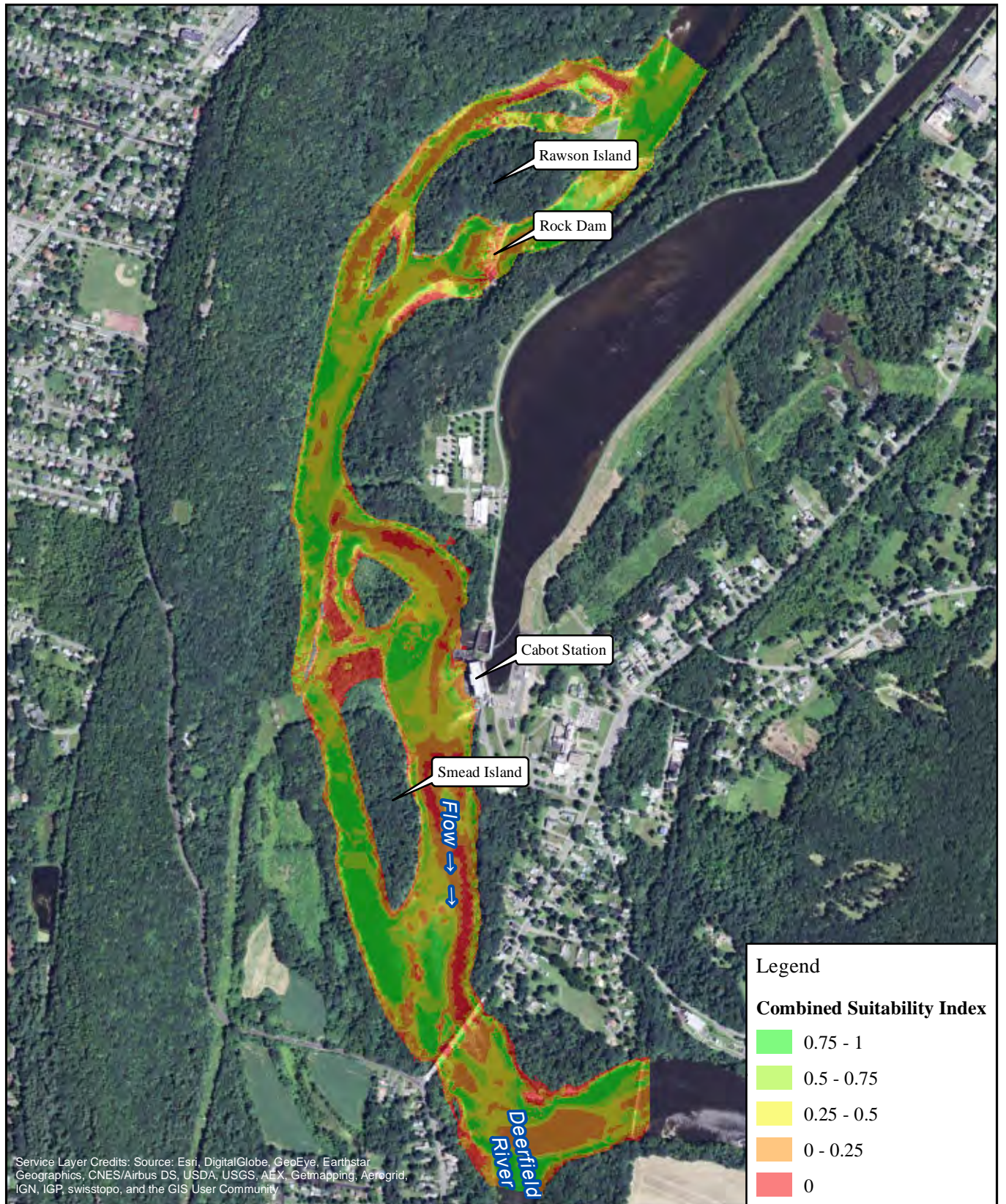
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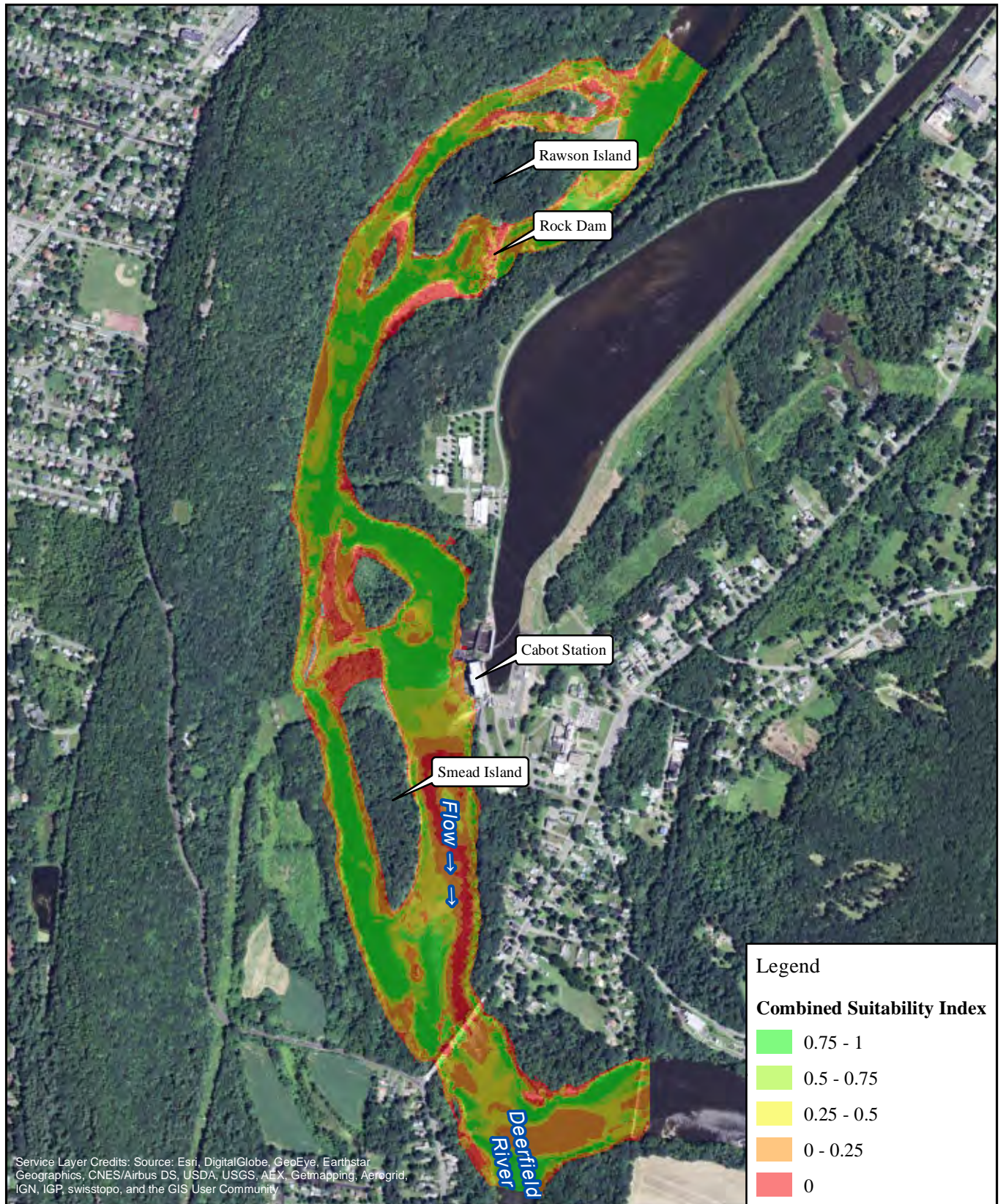
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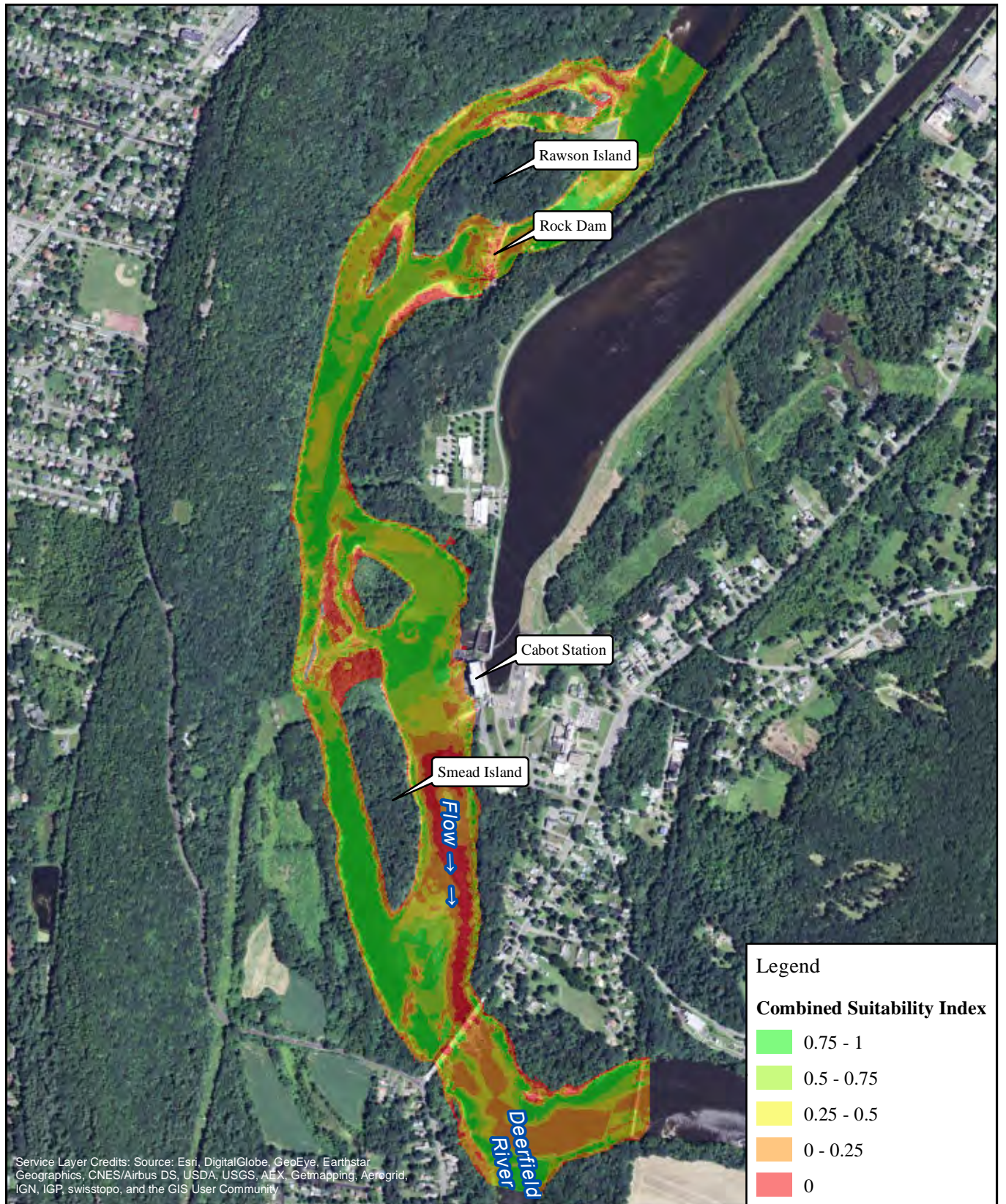
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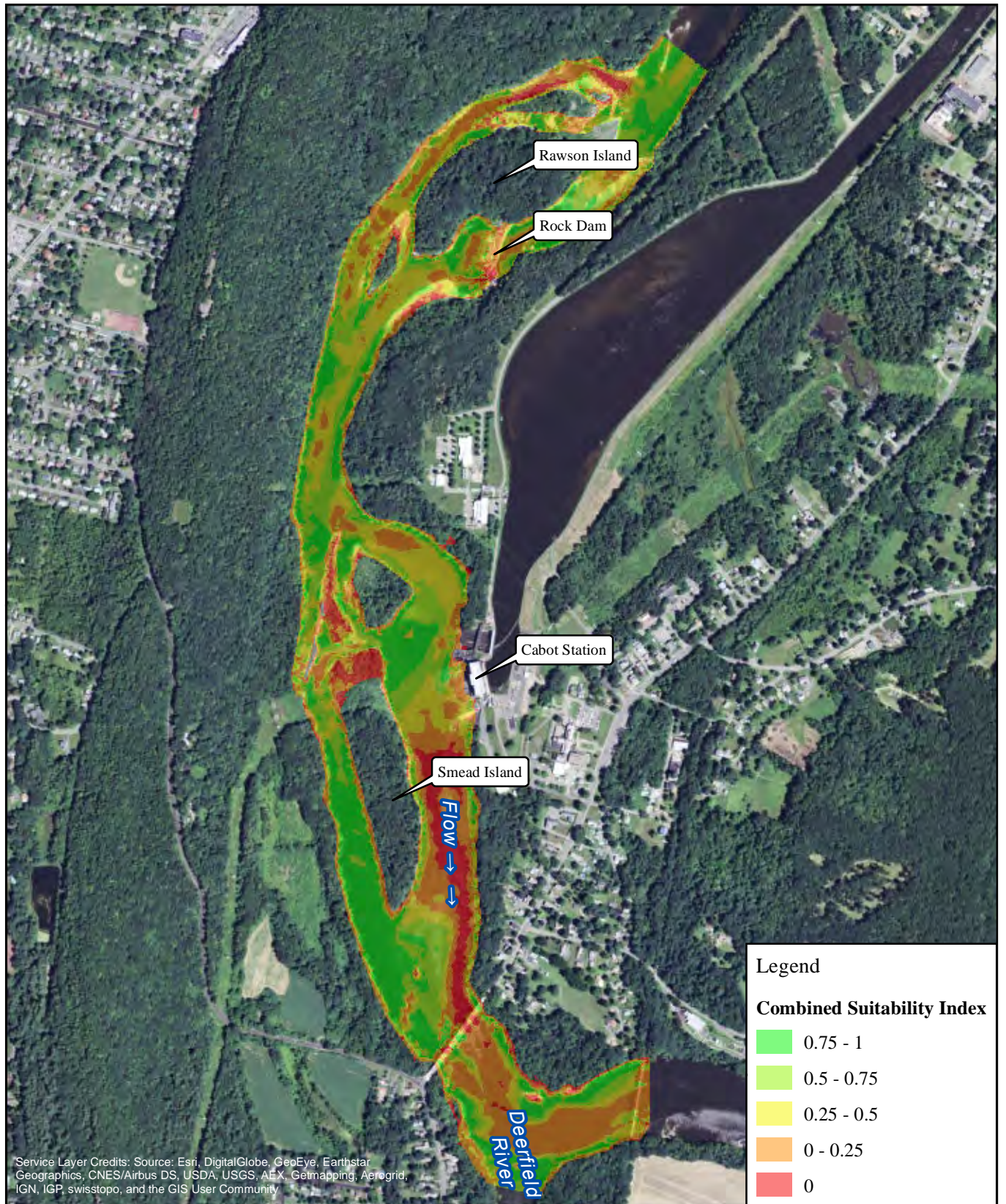
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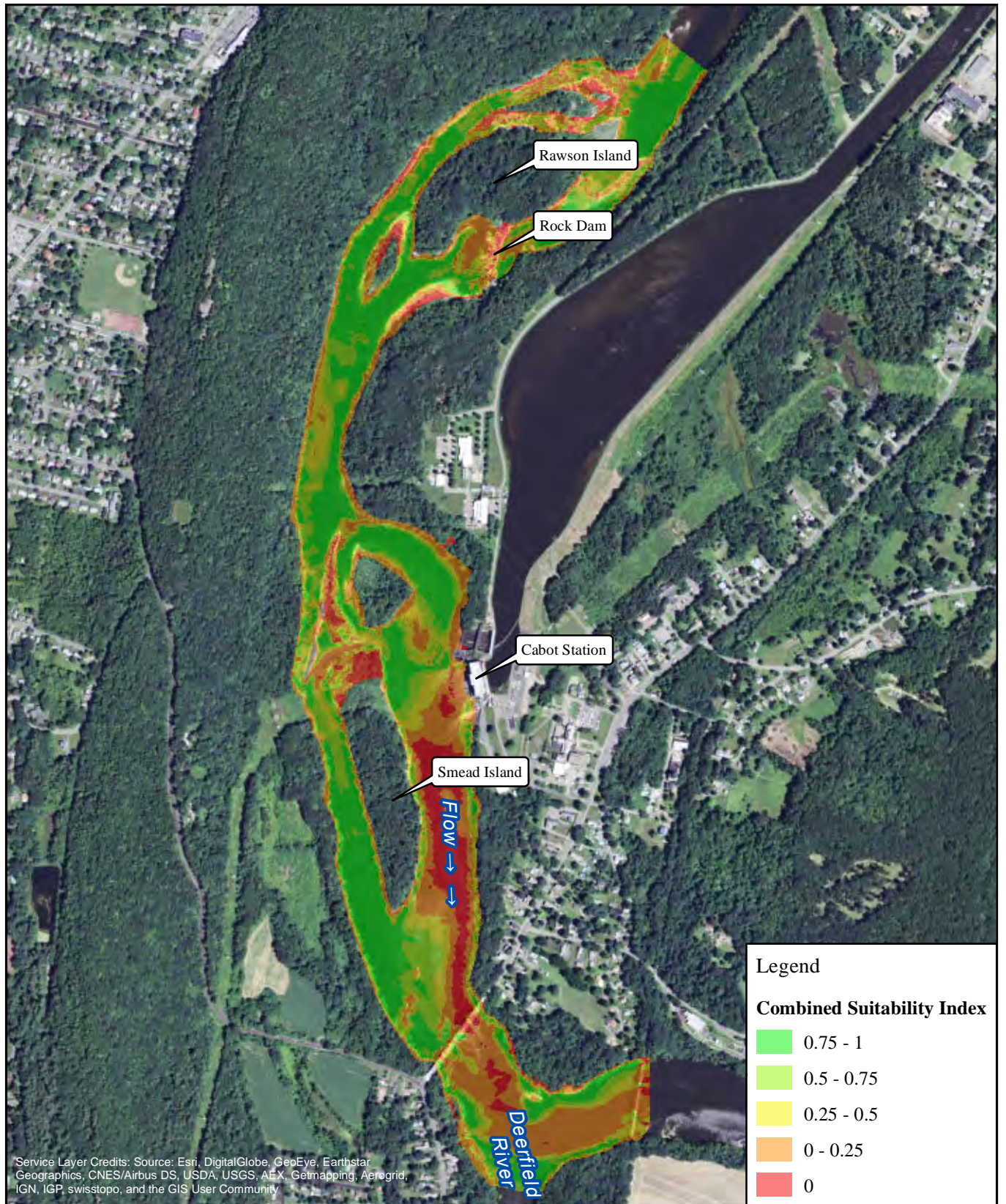
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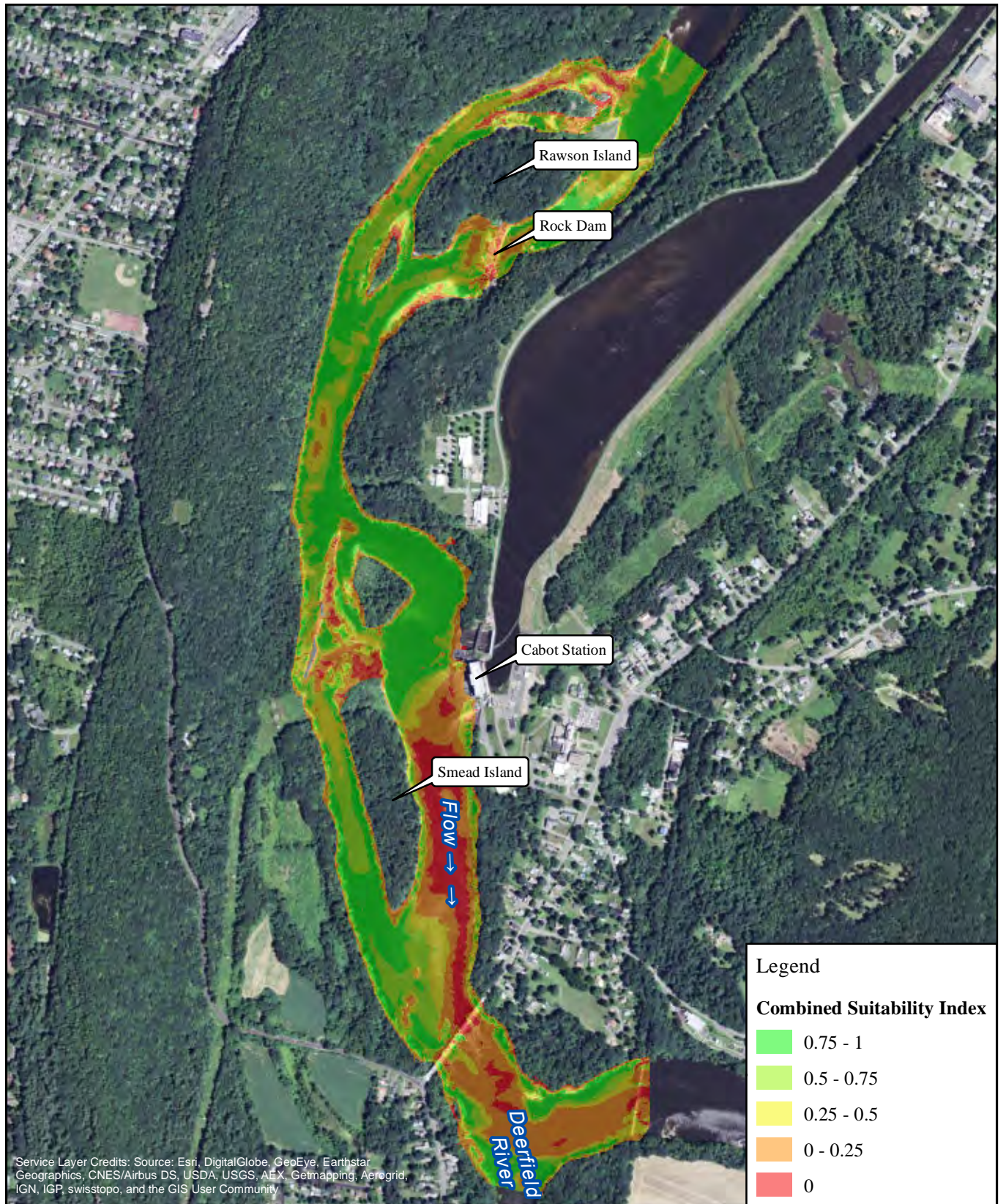
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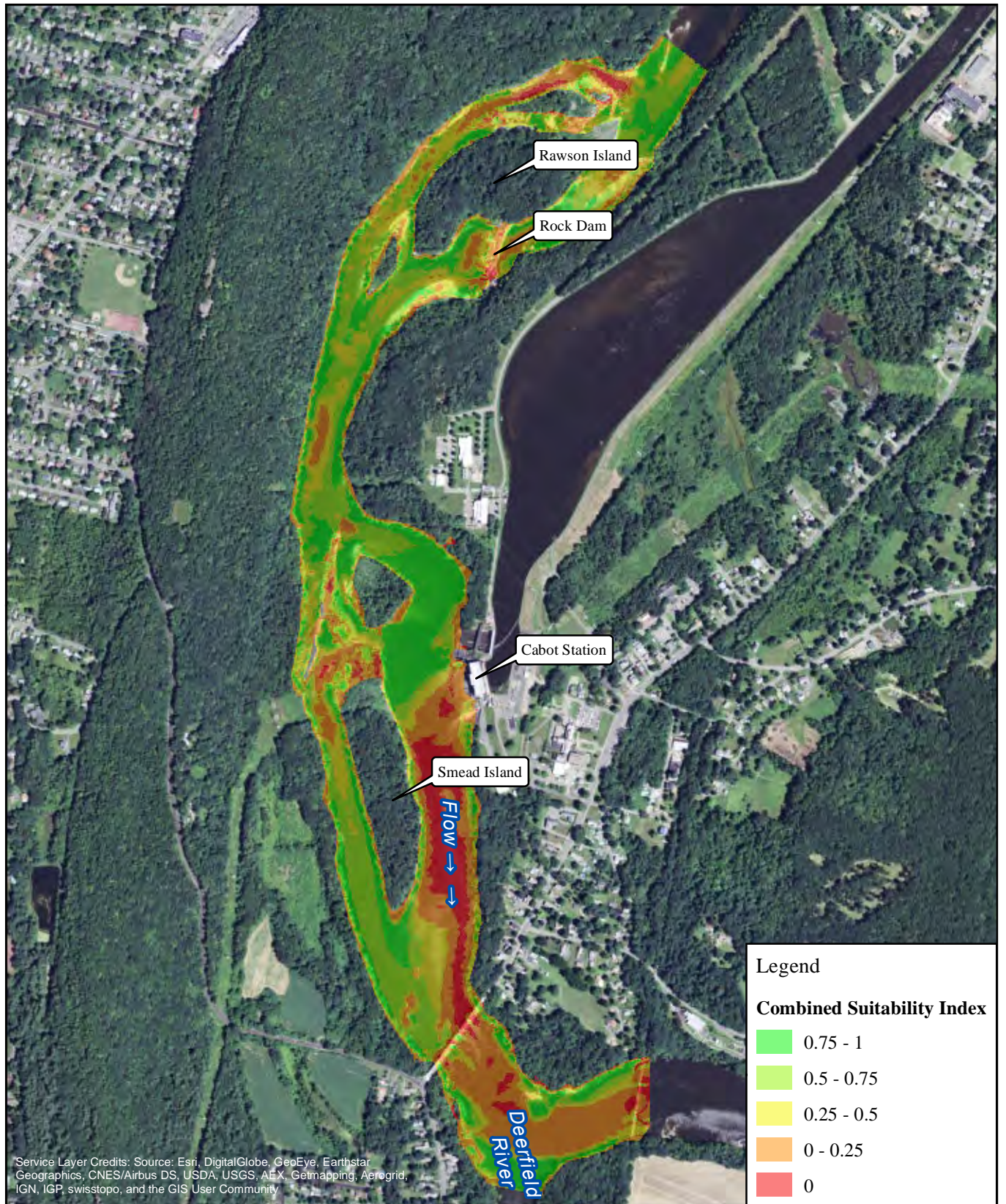
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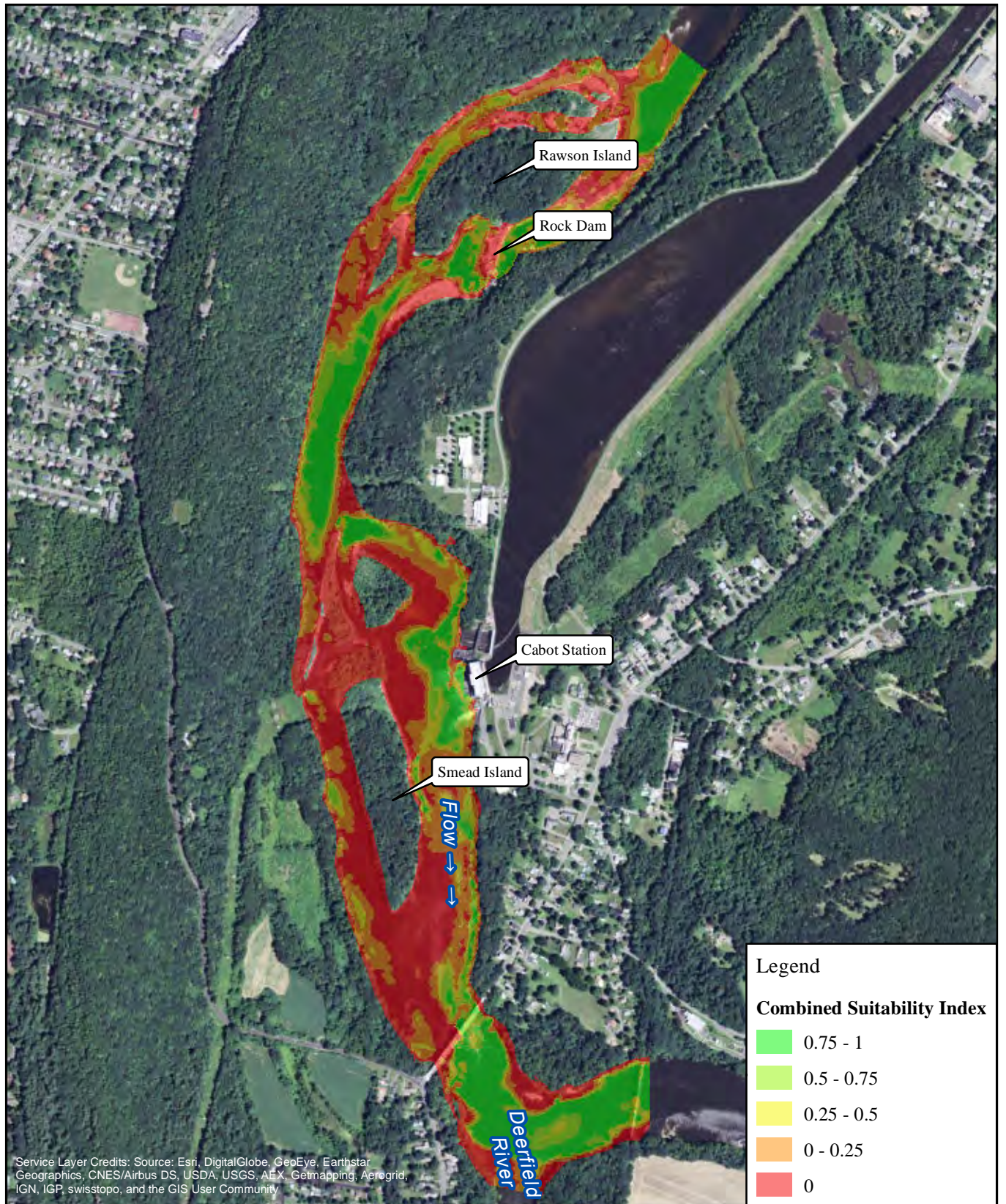
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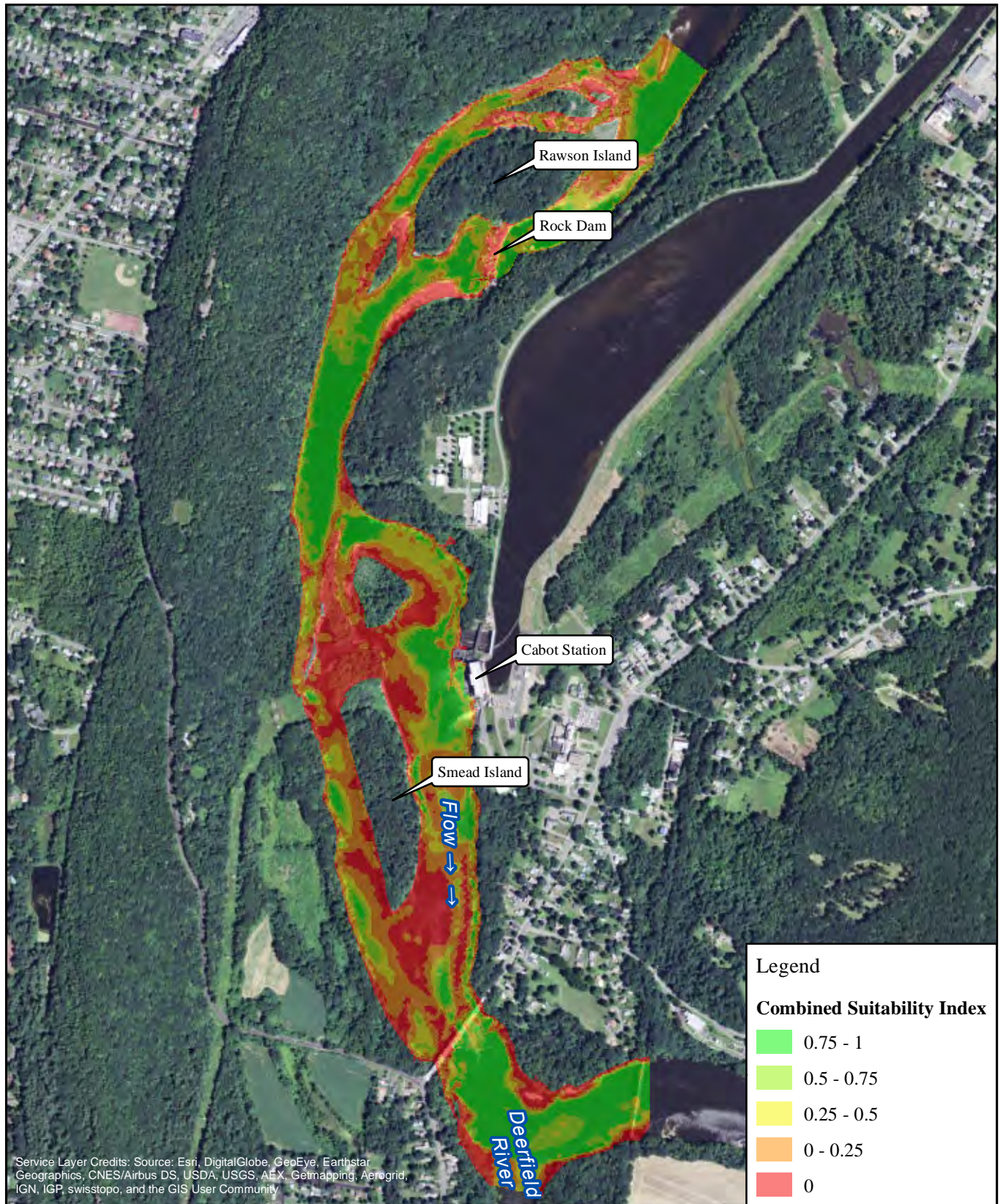
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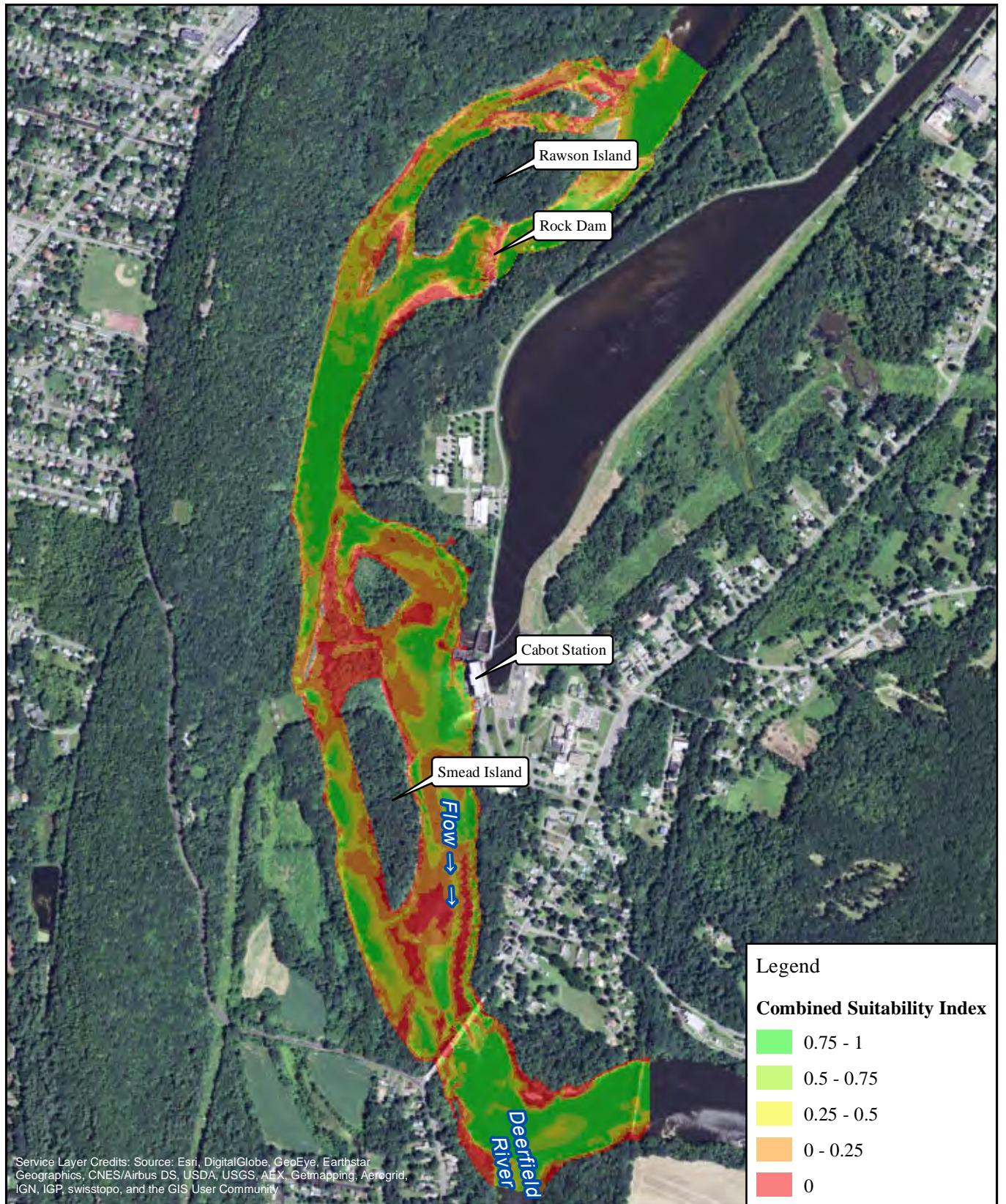
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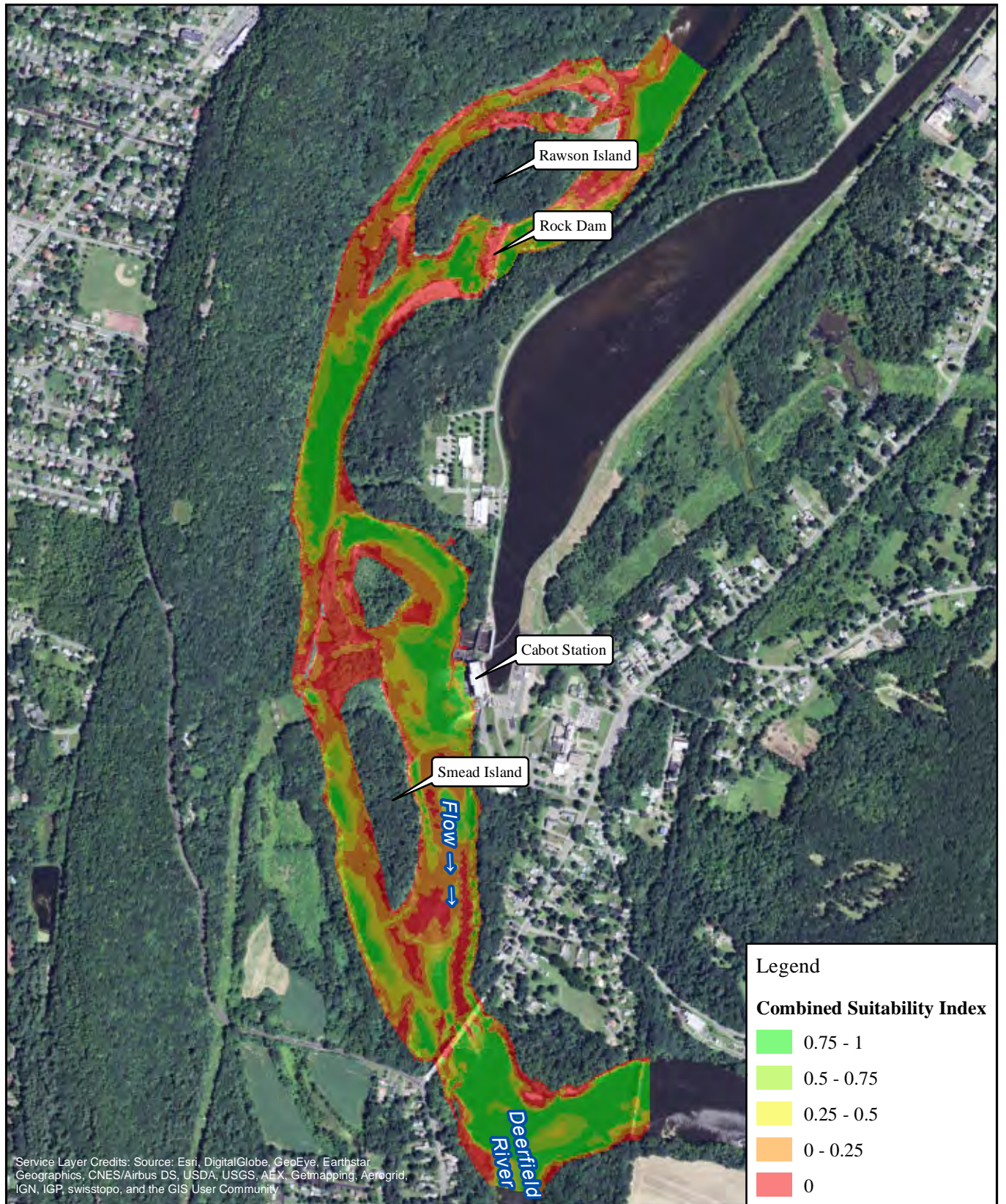
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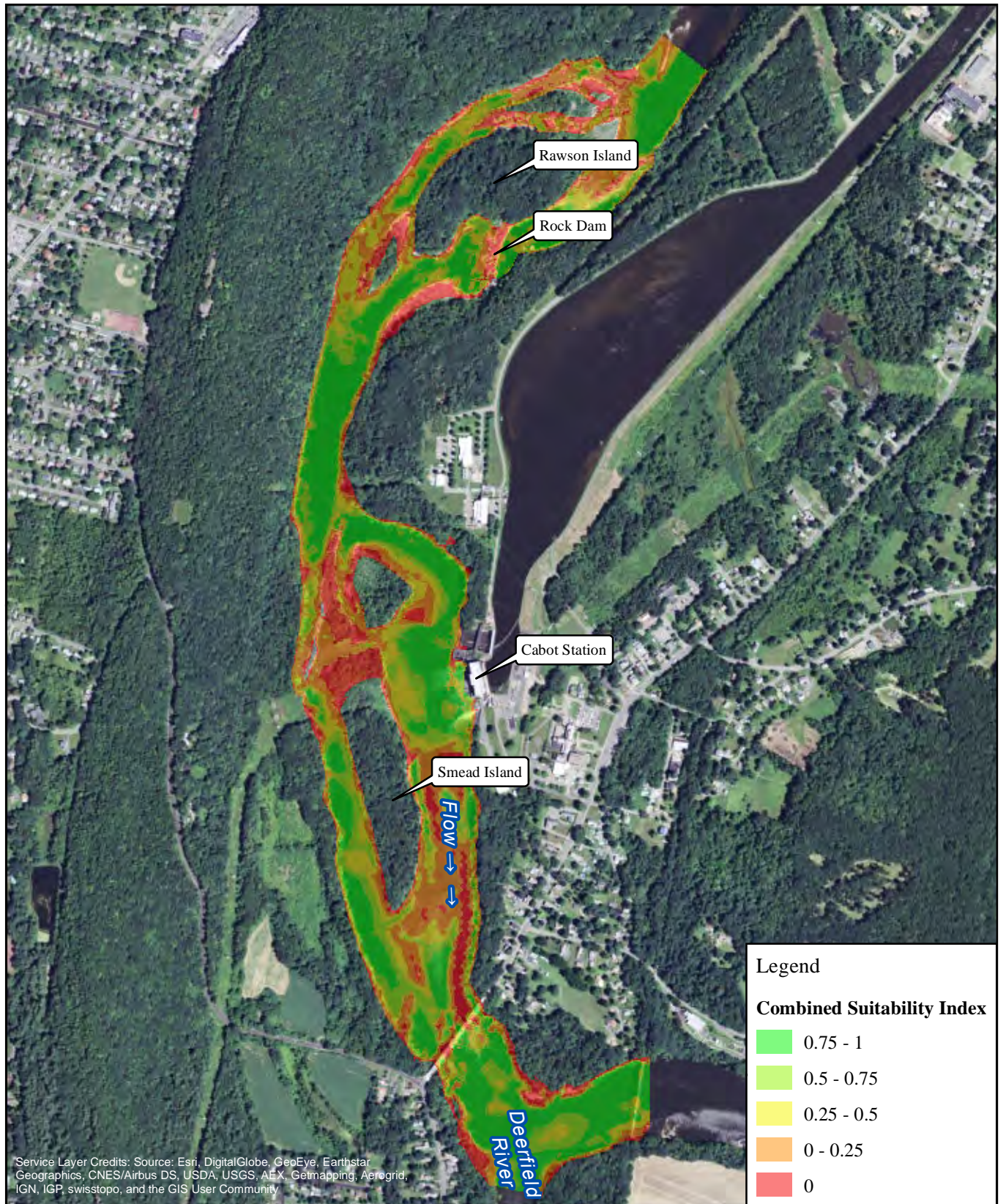
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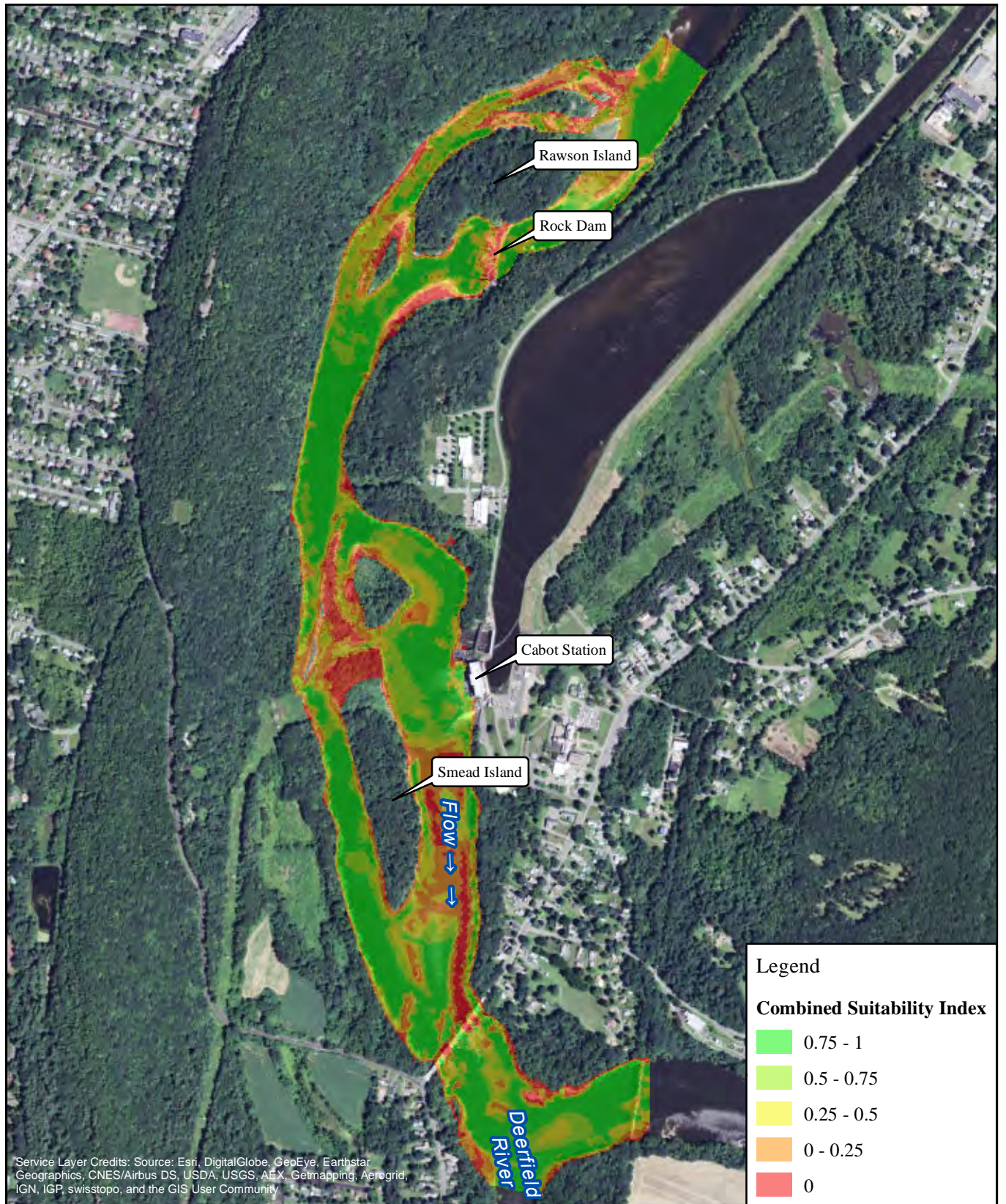
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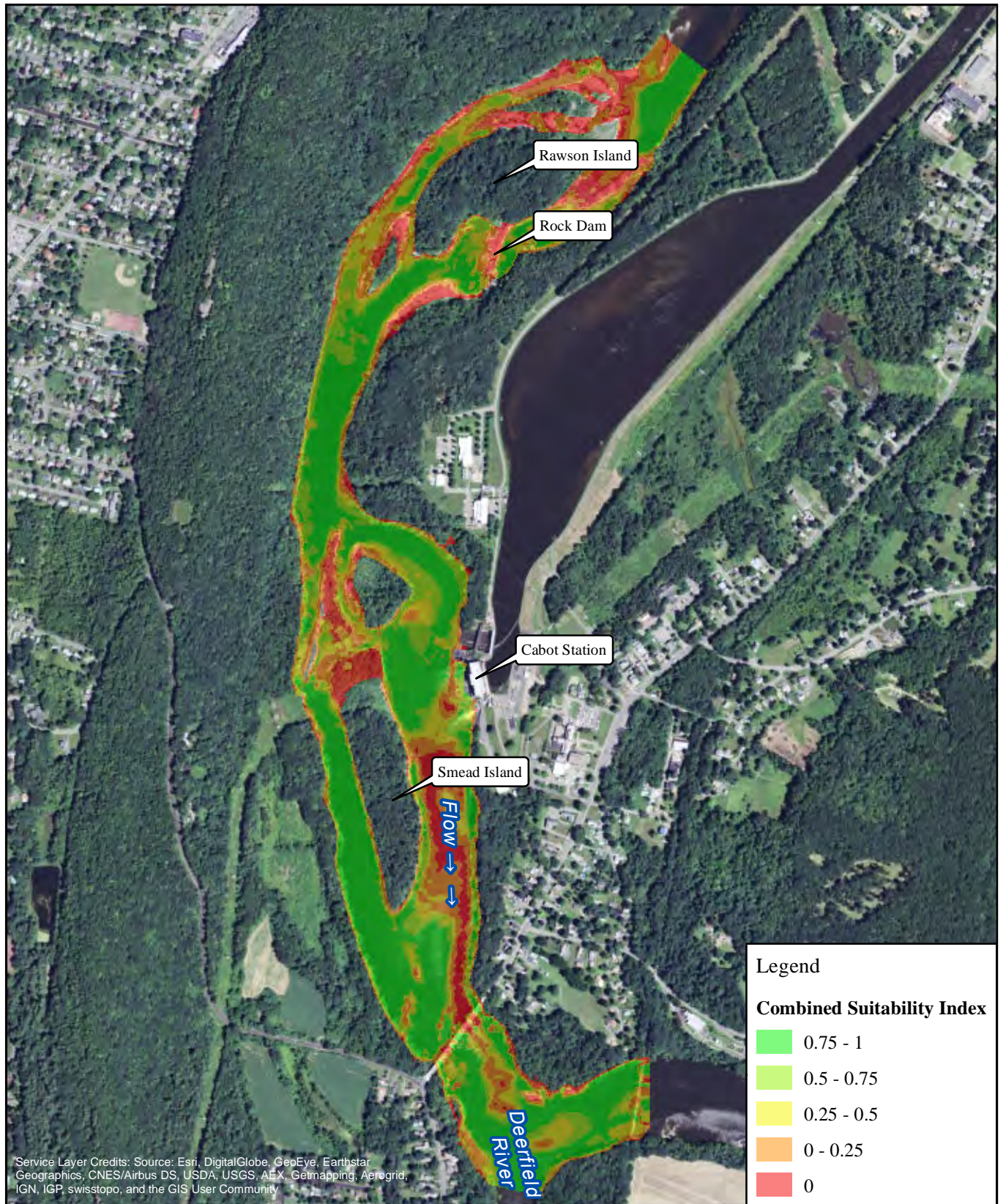
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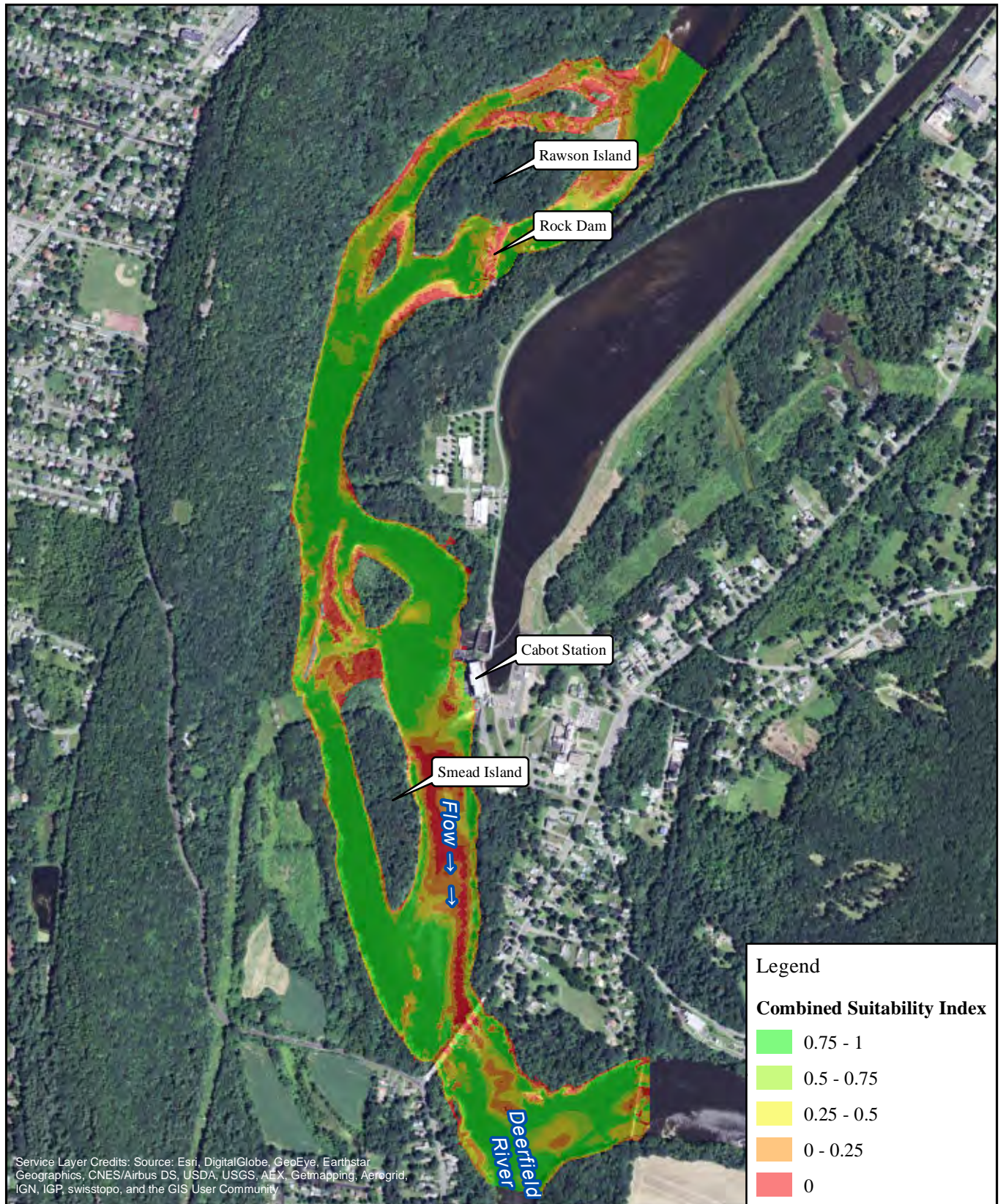
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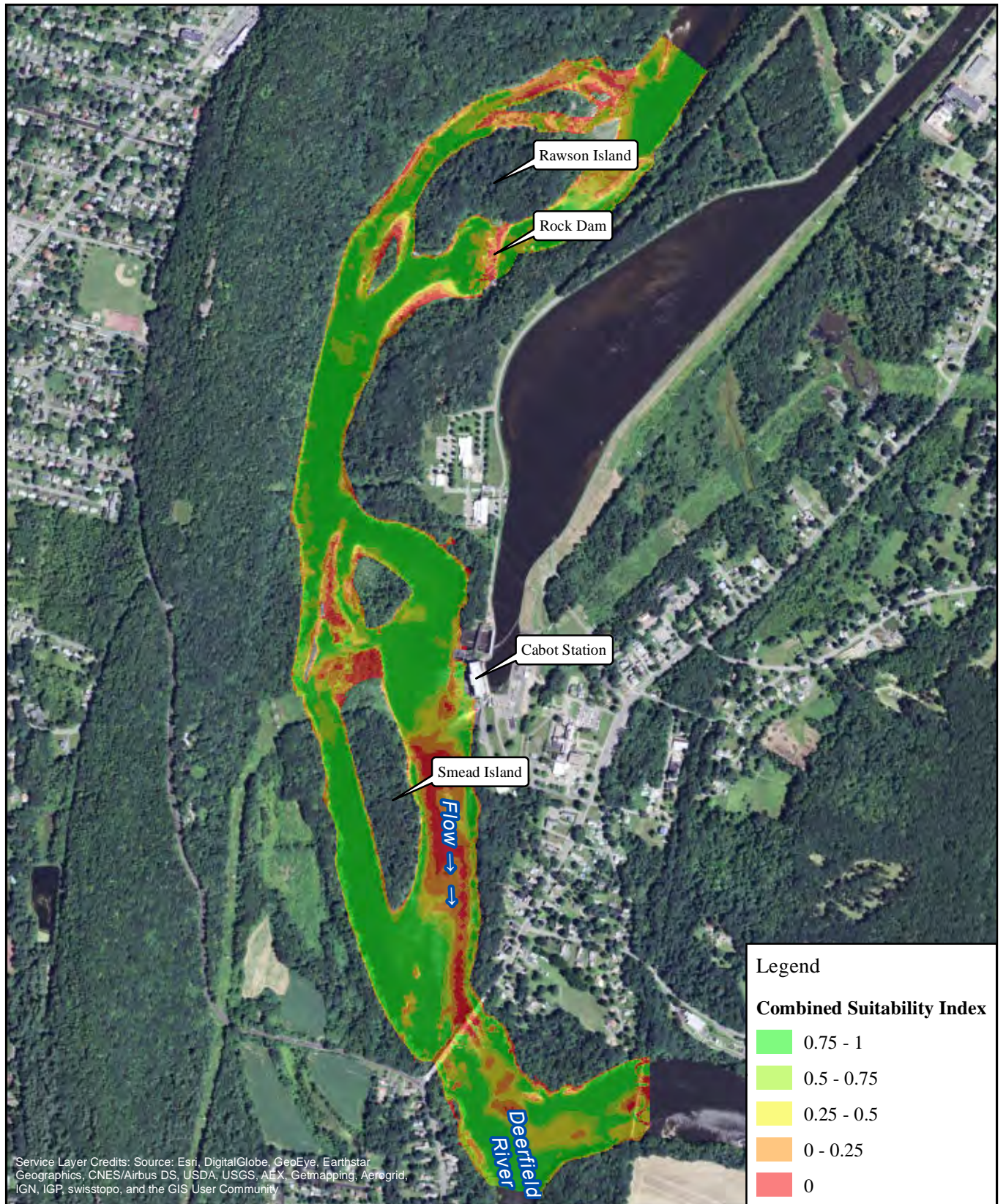
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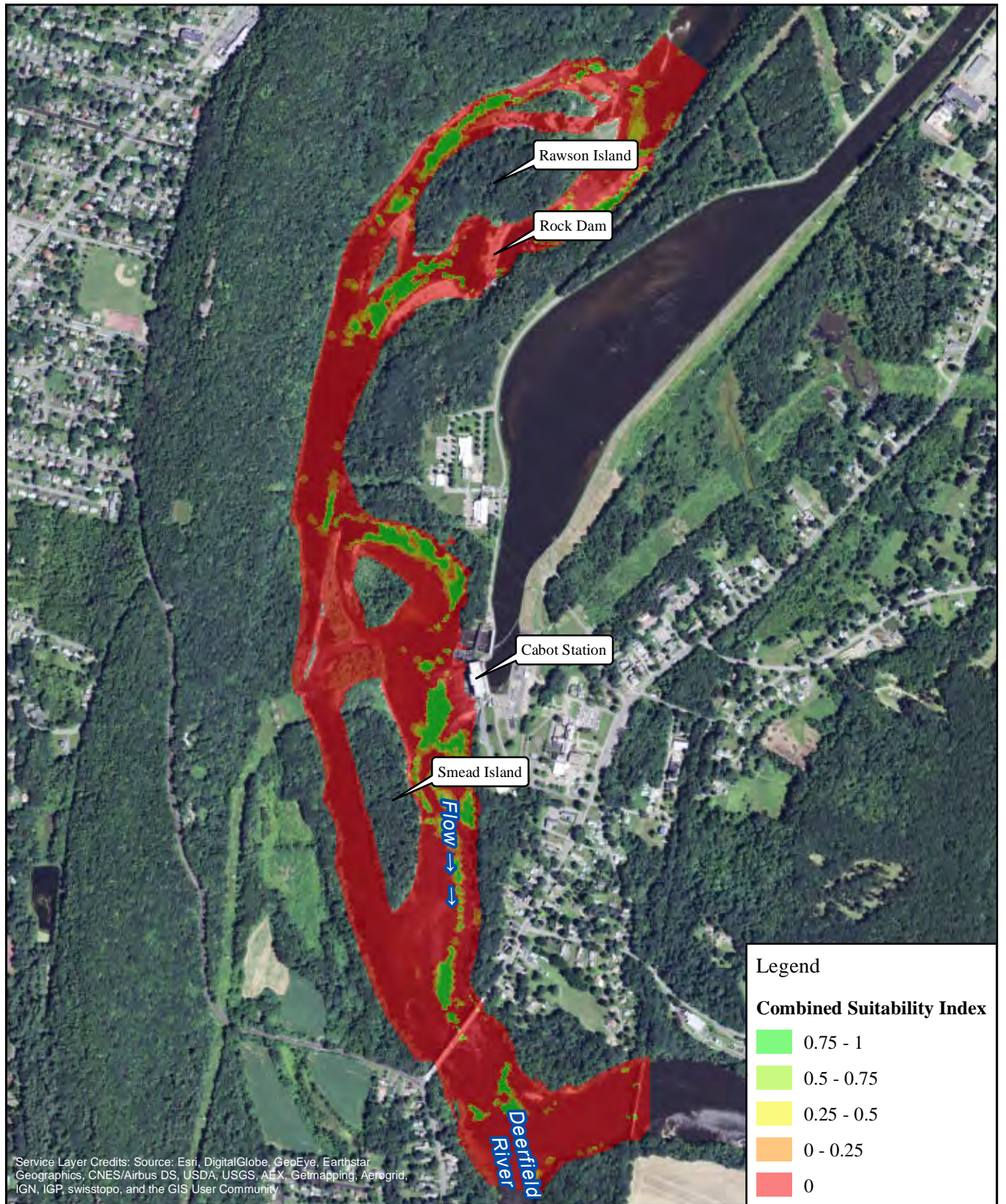
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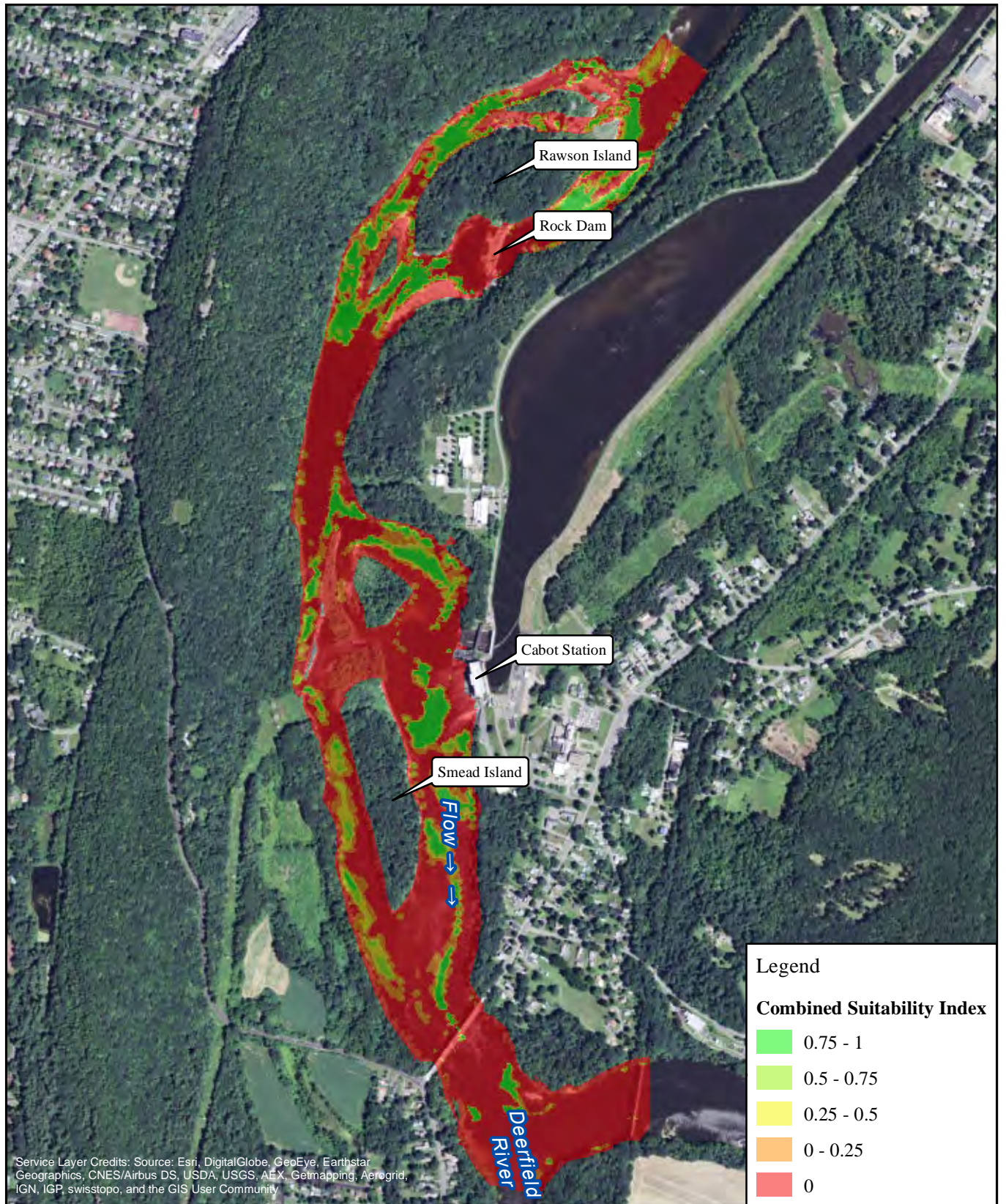
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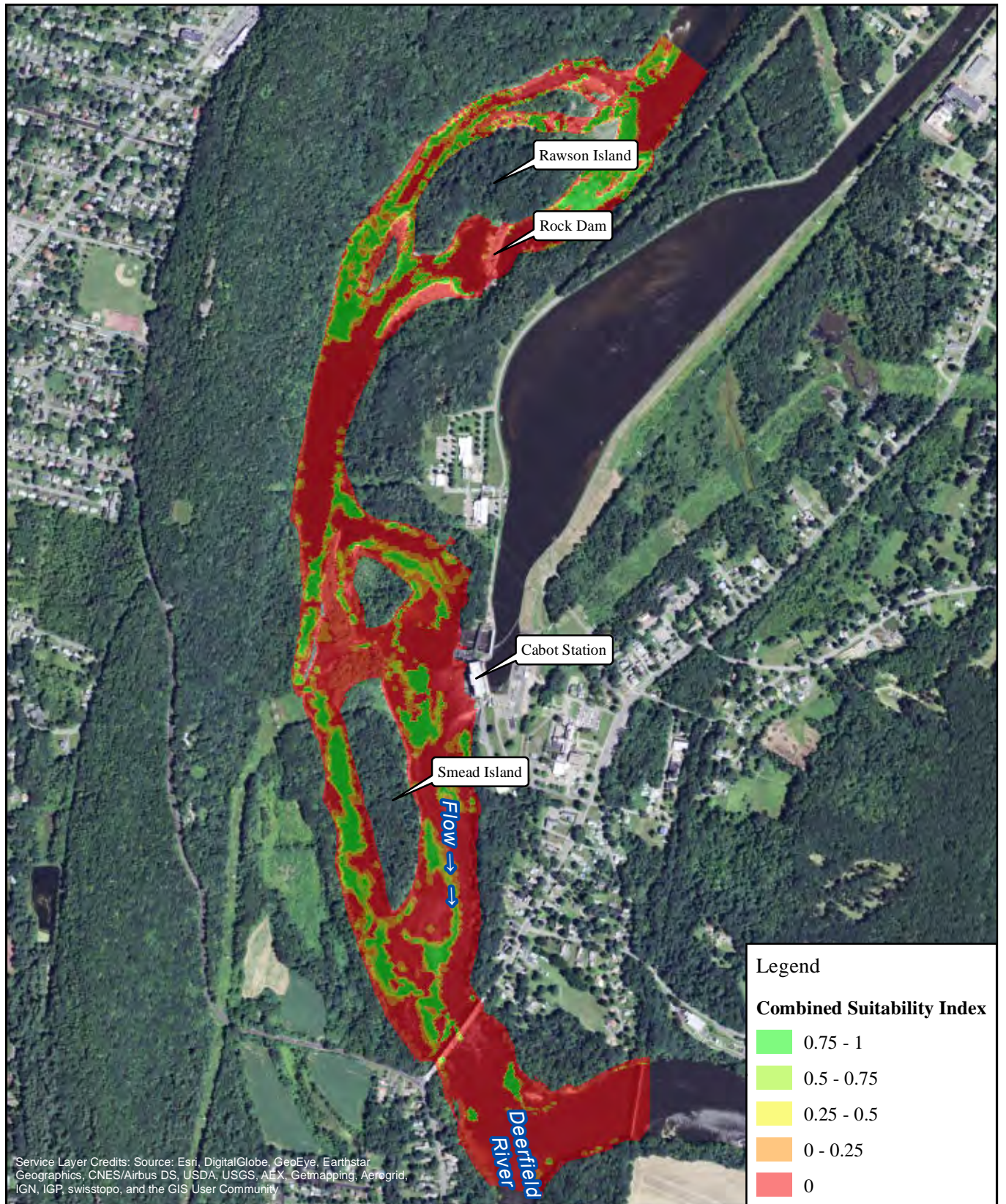
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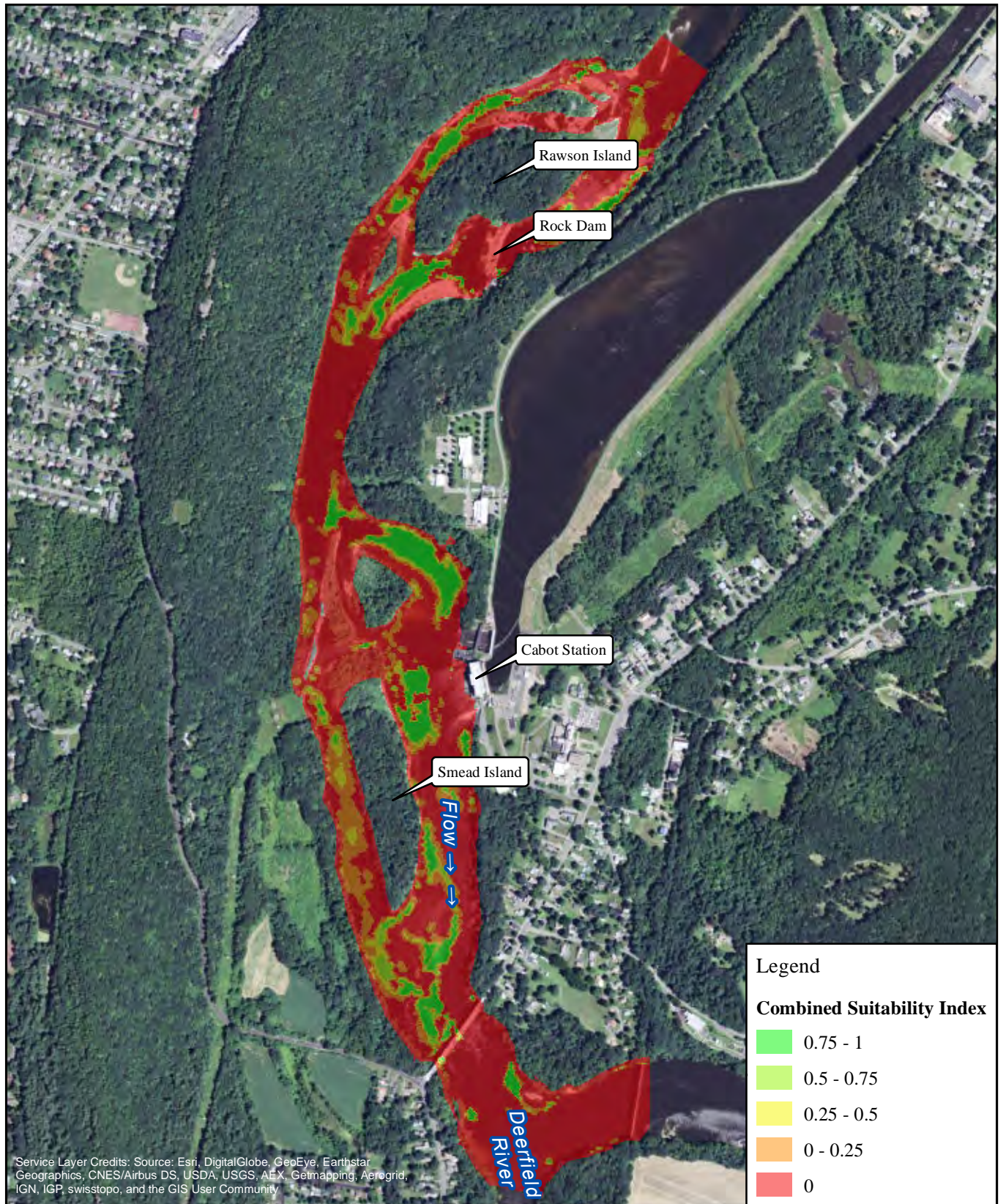
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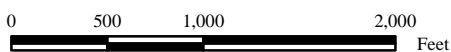
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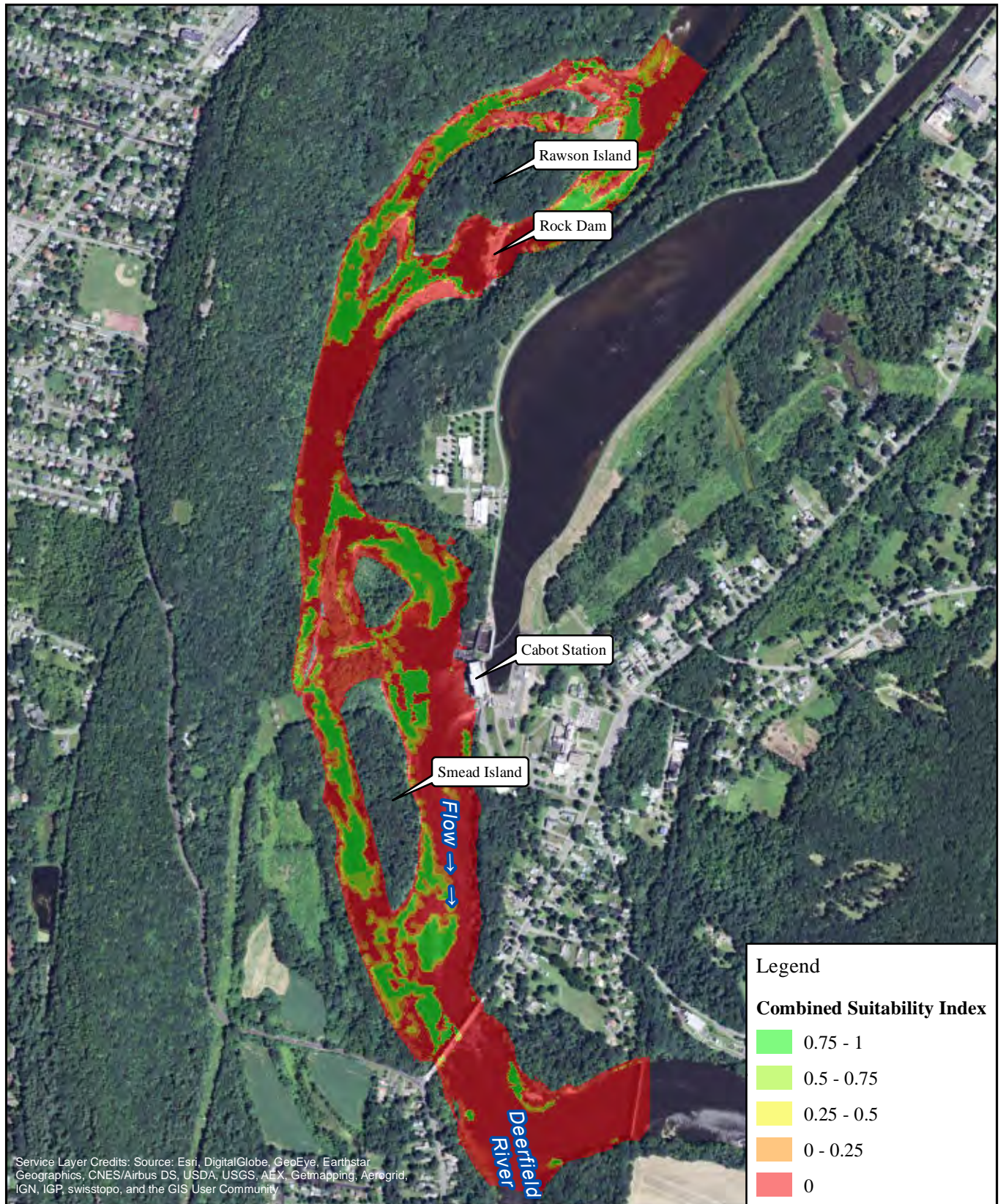


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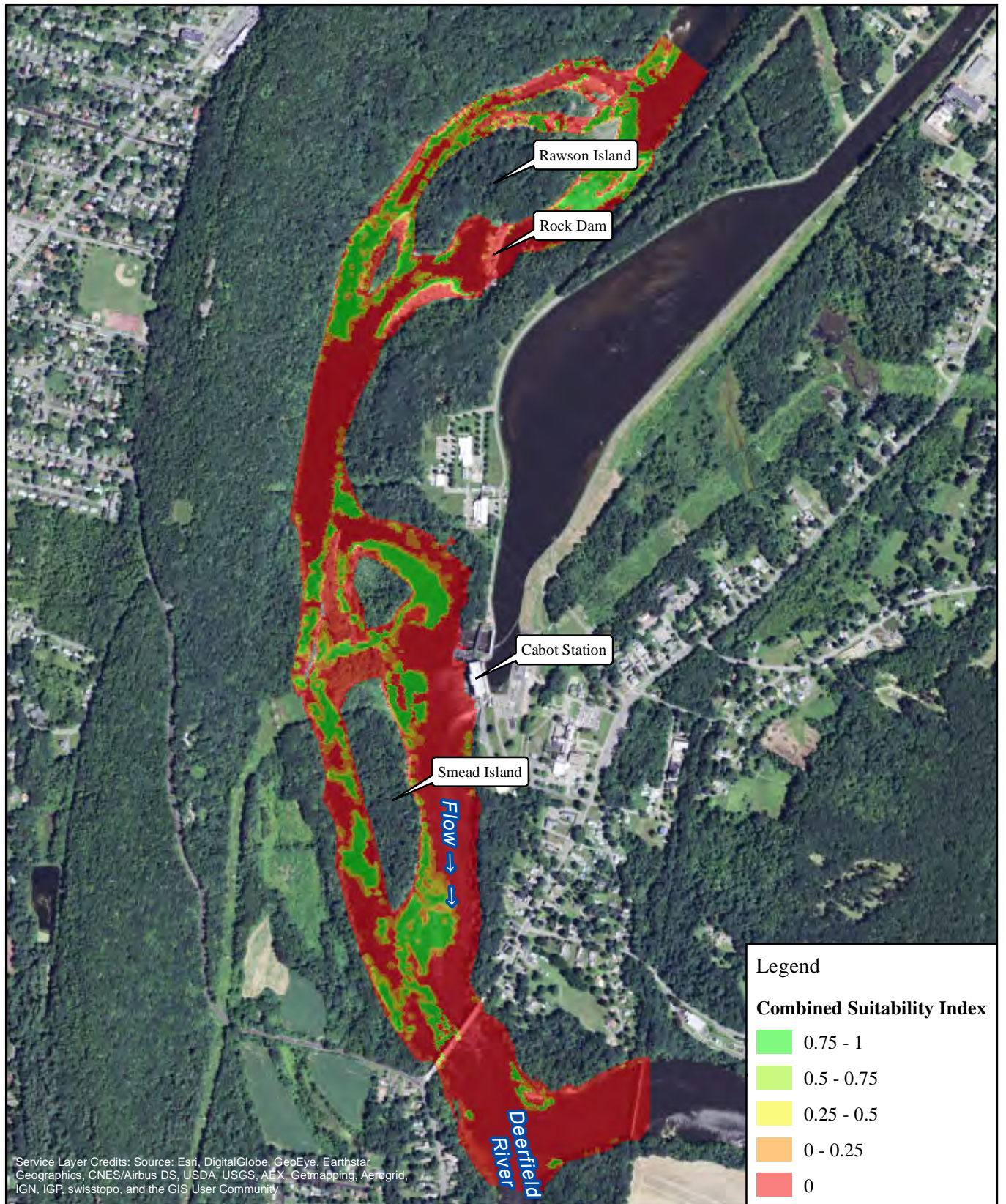
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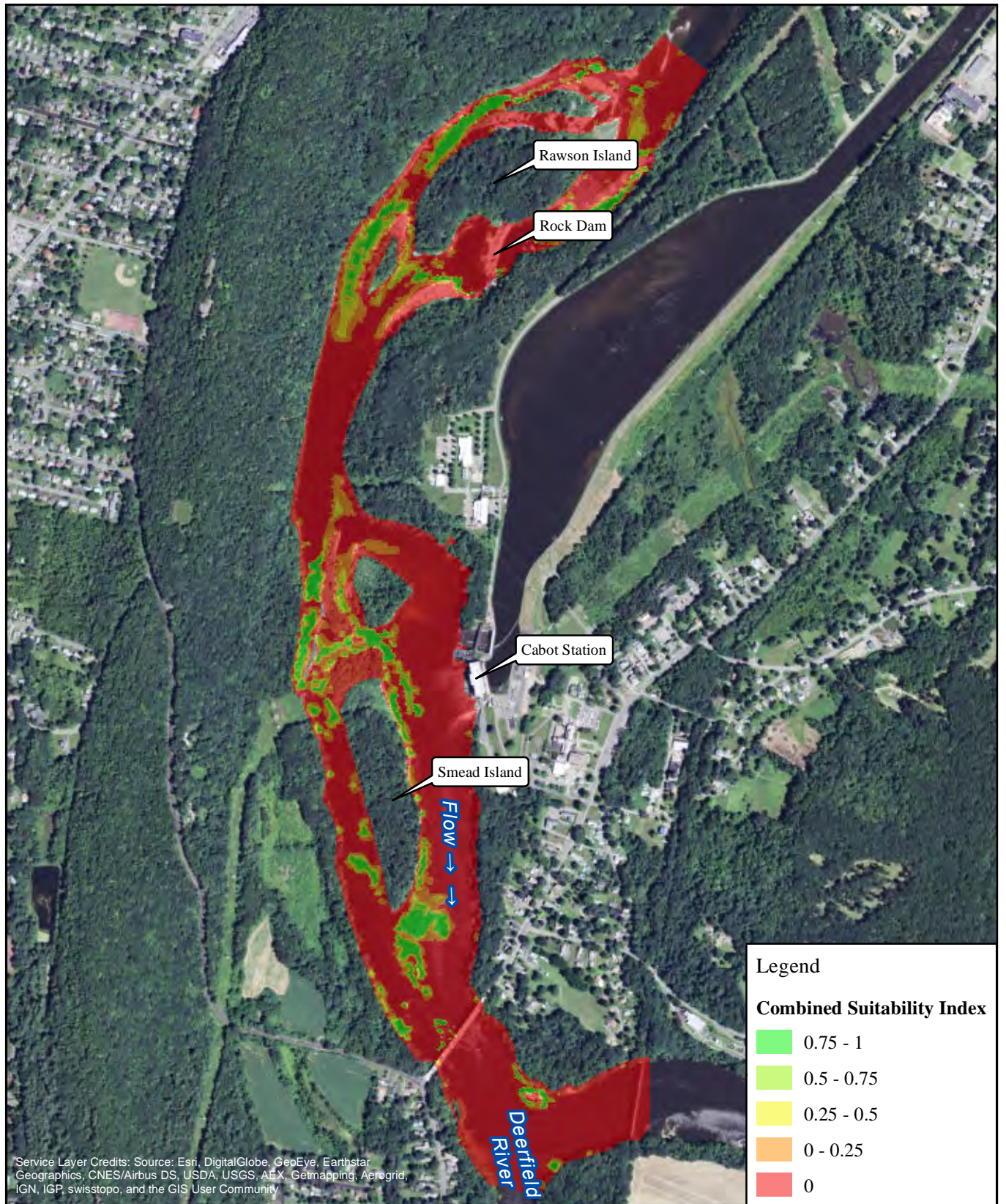
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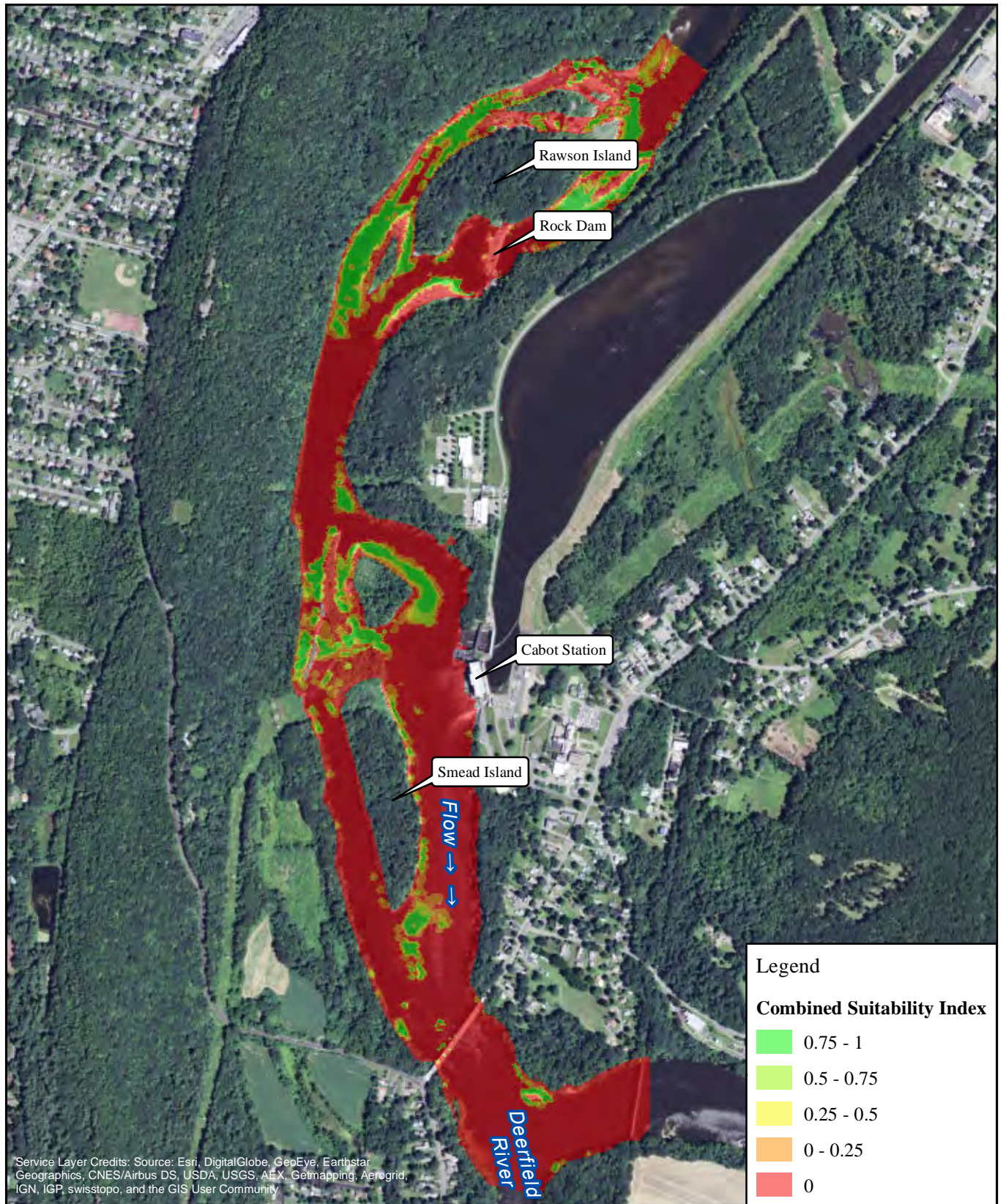
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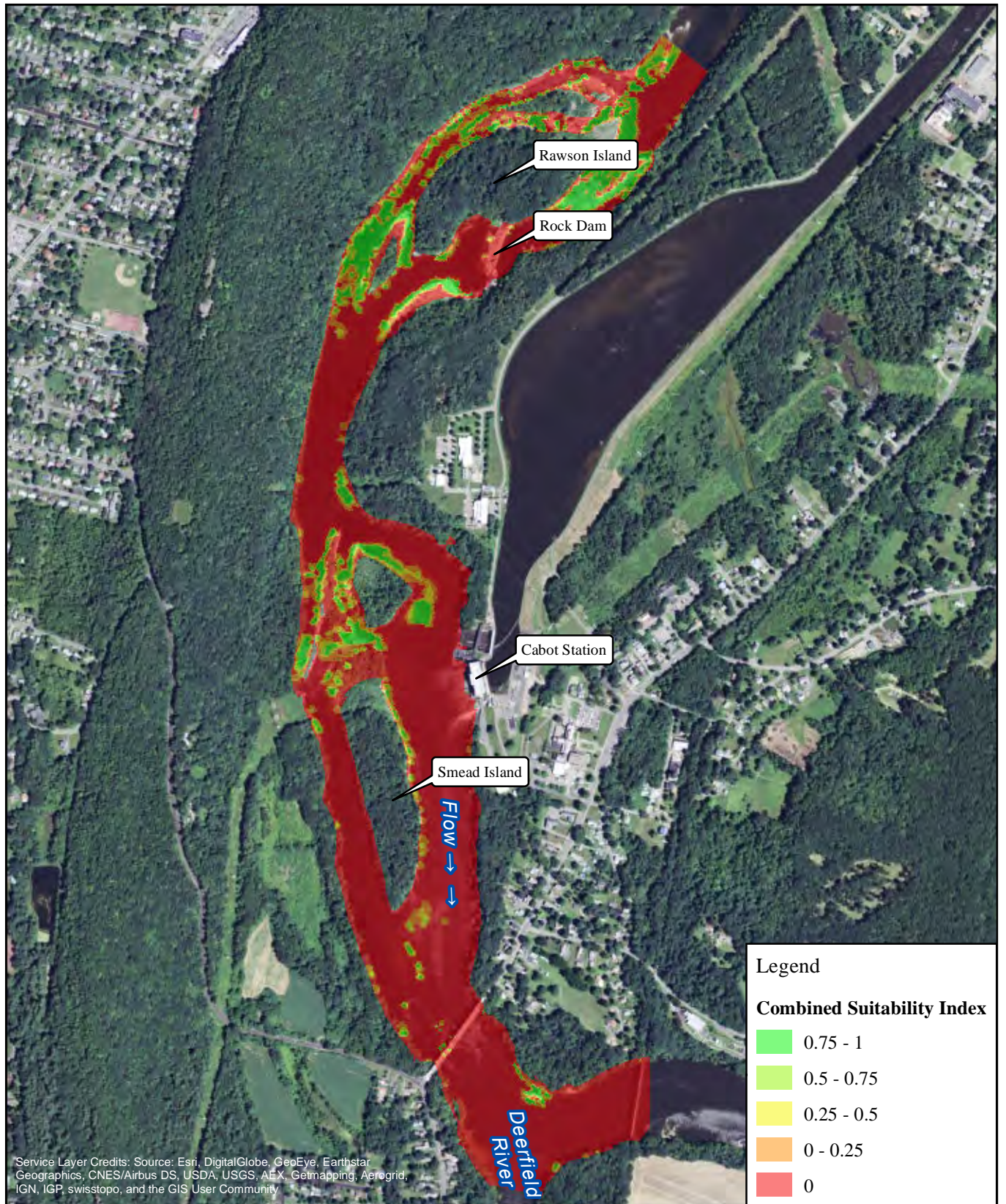
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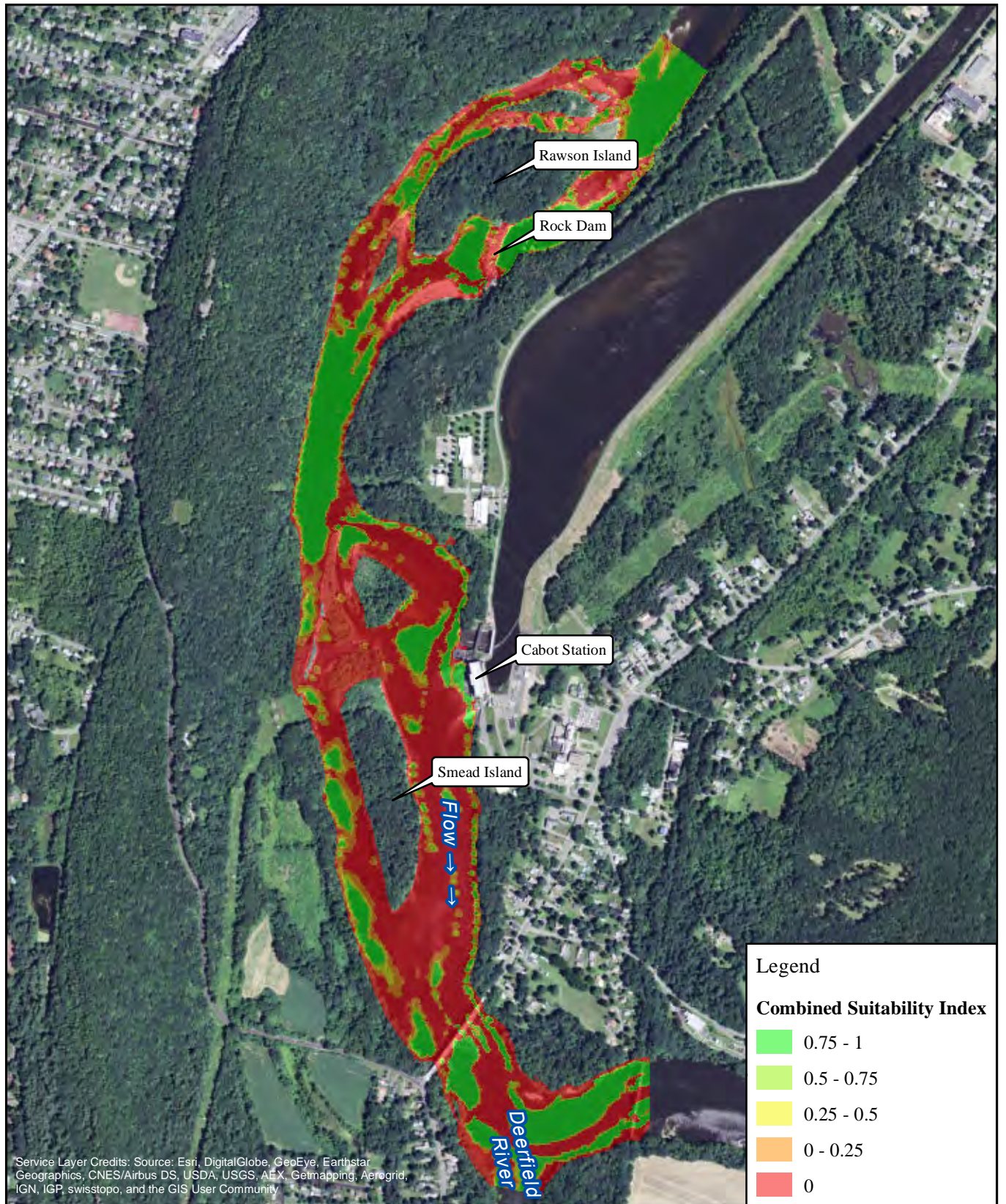
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Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Deep-Fast Guild-
Cabot Flow: 14000 cfs
Bypass Flow: 5000 cfs
Deerfield Flow: 200 cfs

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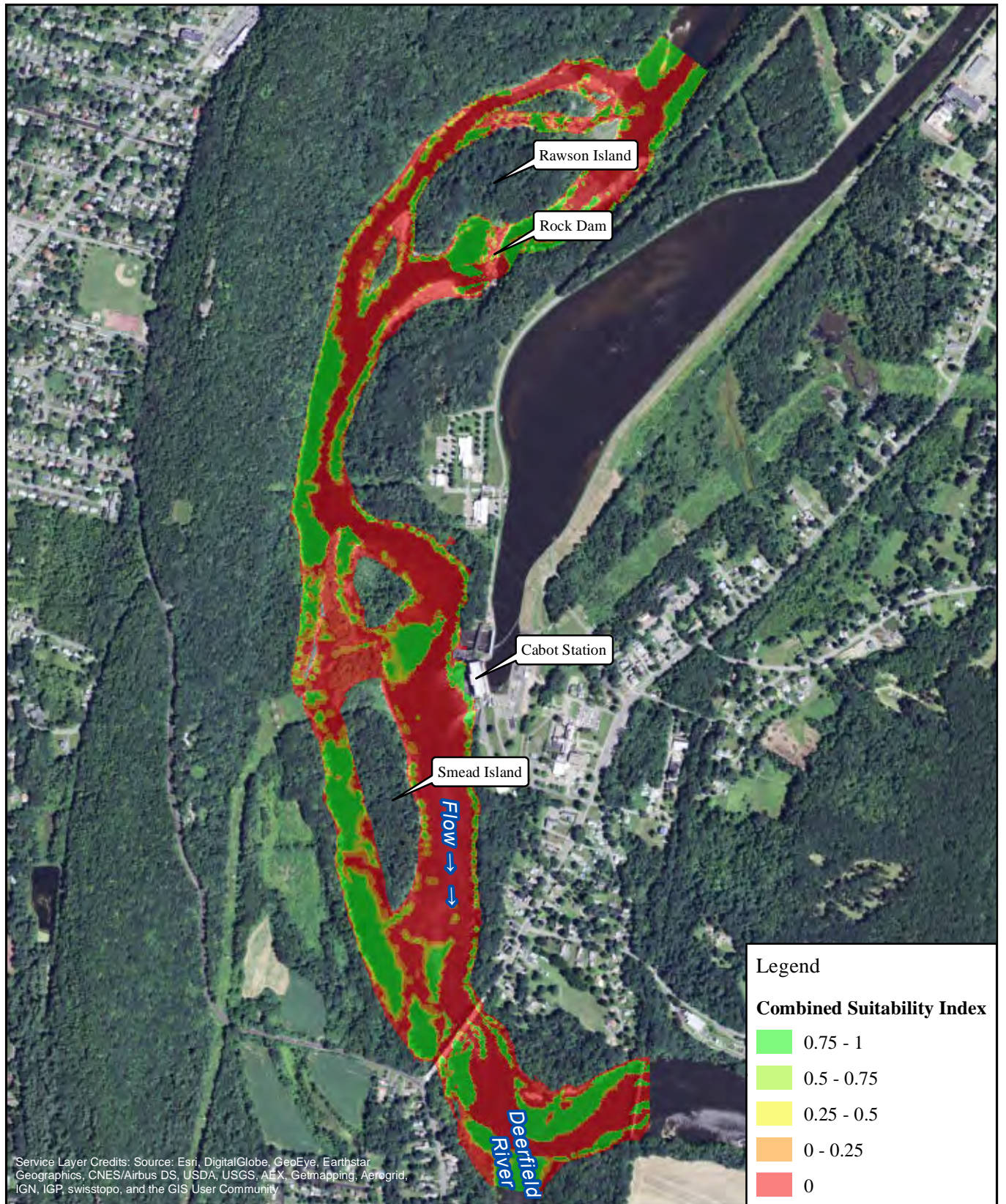
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Feet

Deep-Slow Guild-
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Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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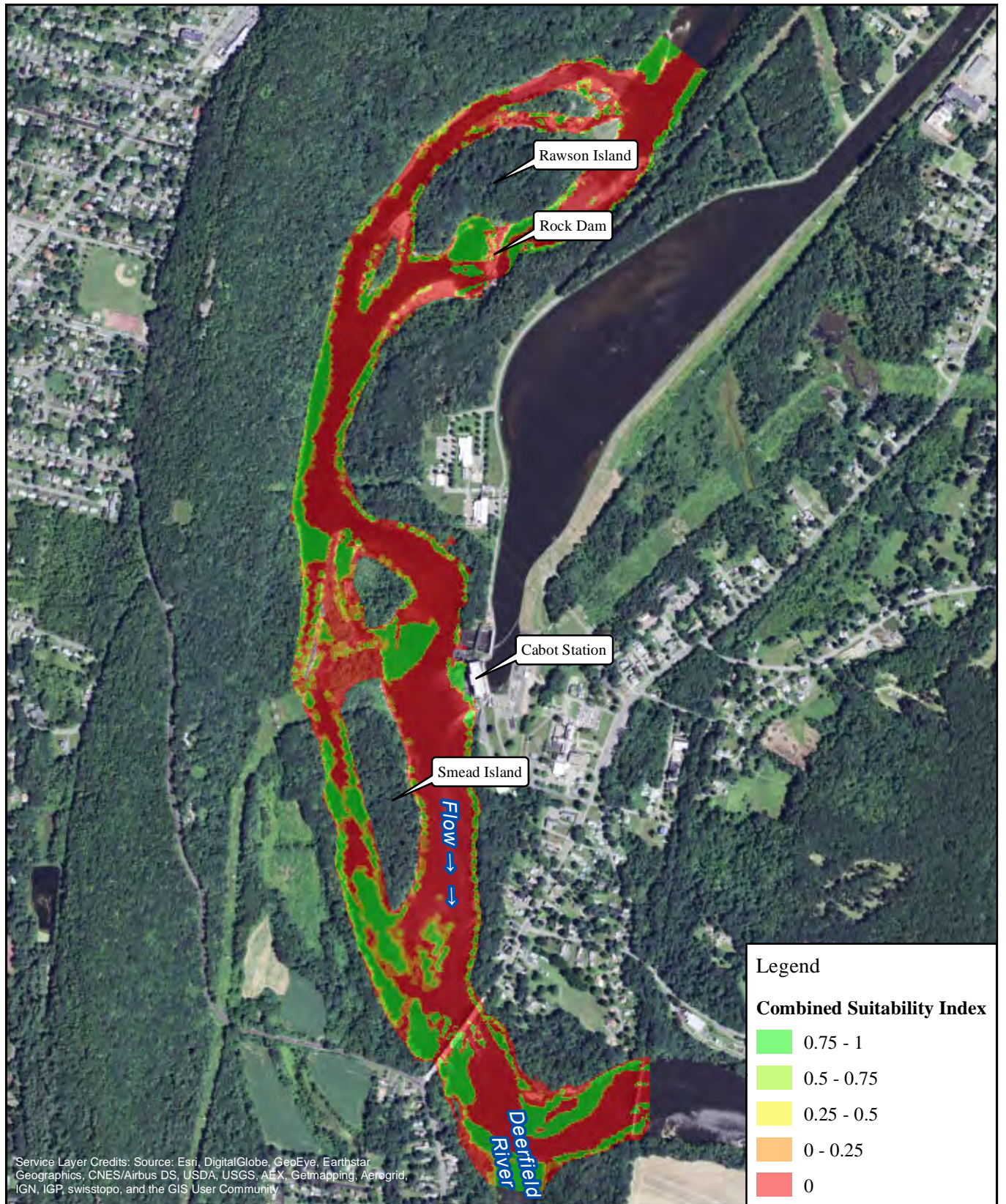
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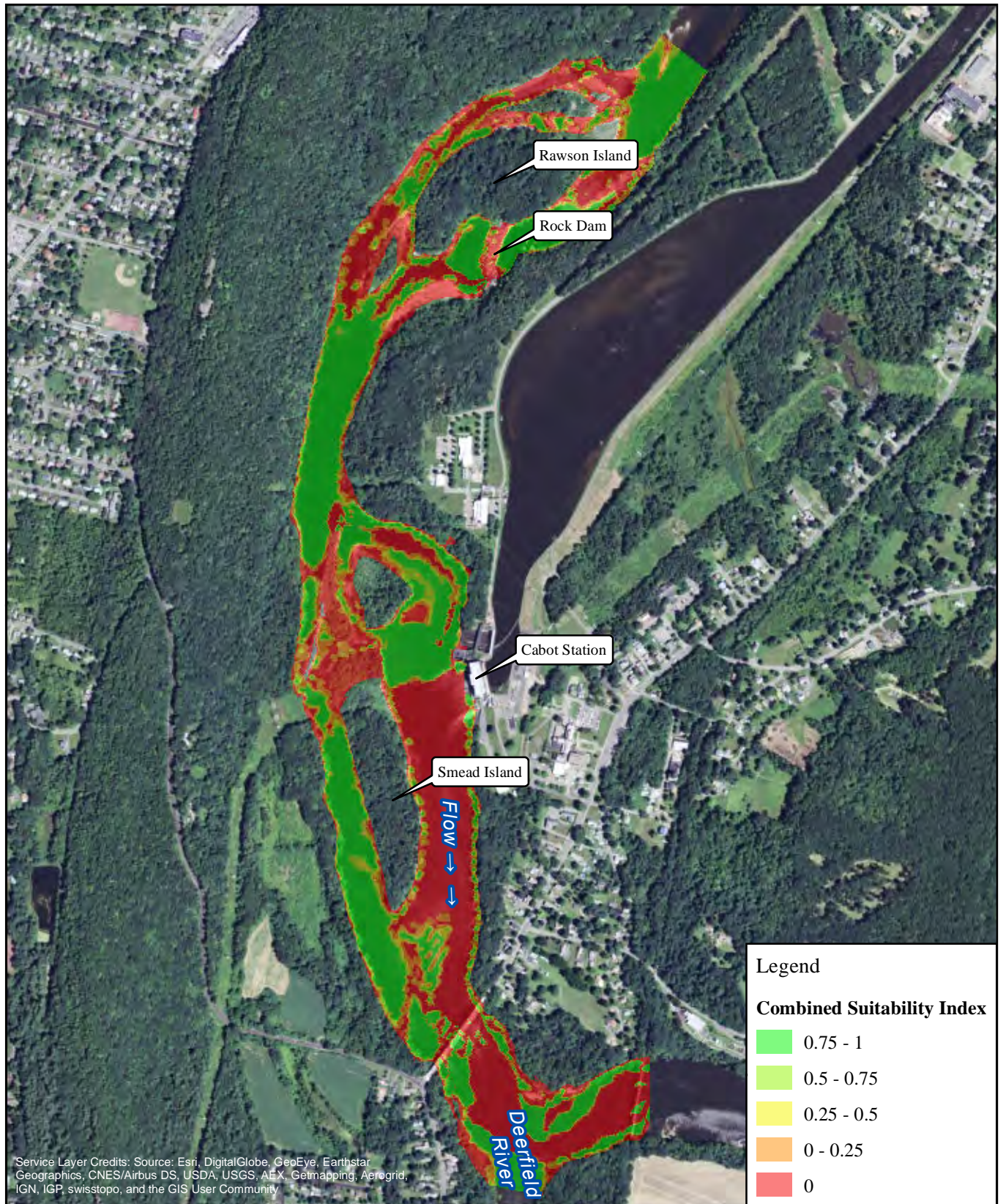
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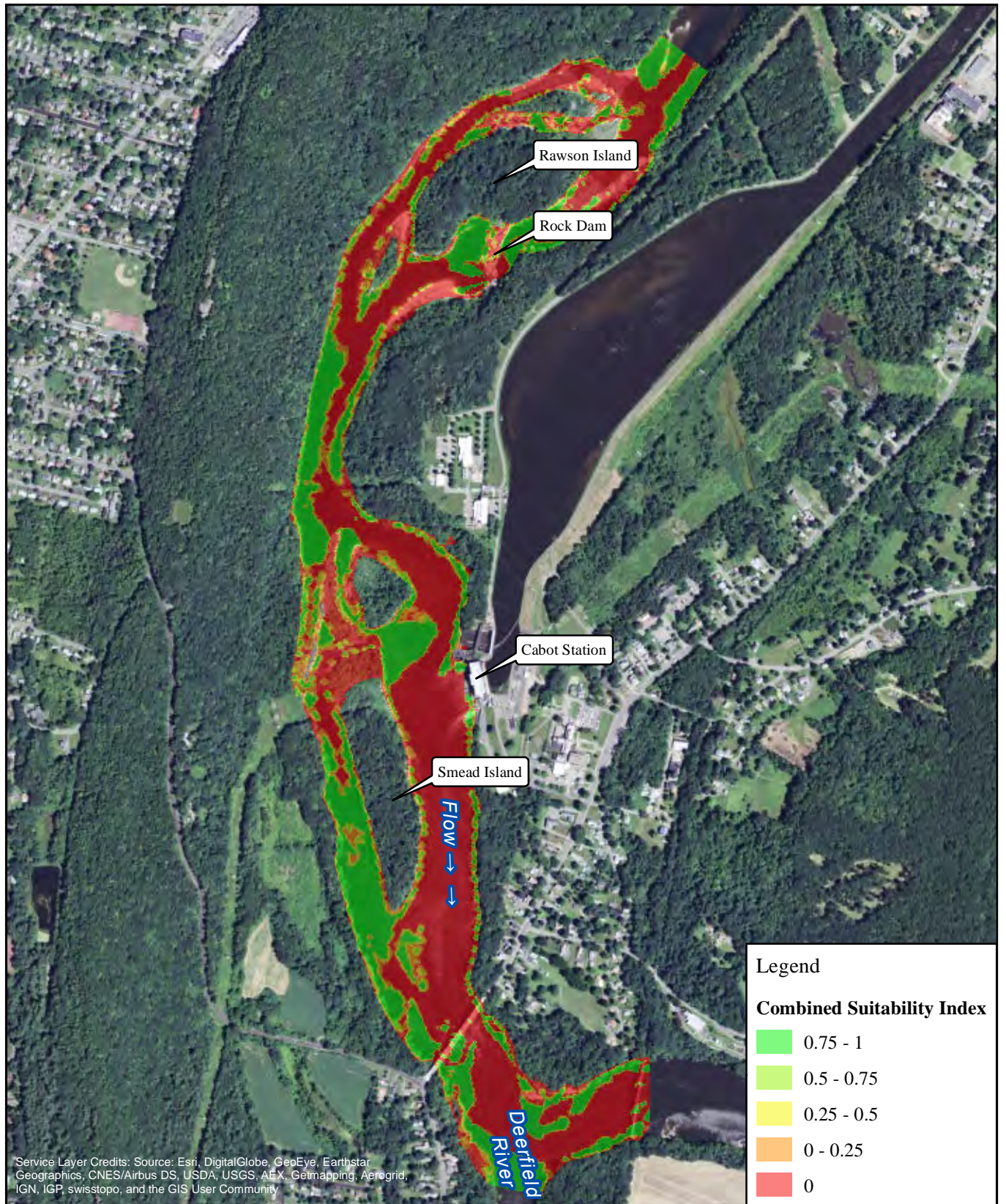
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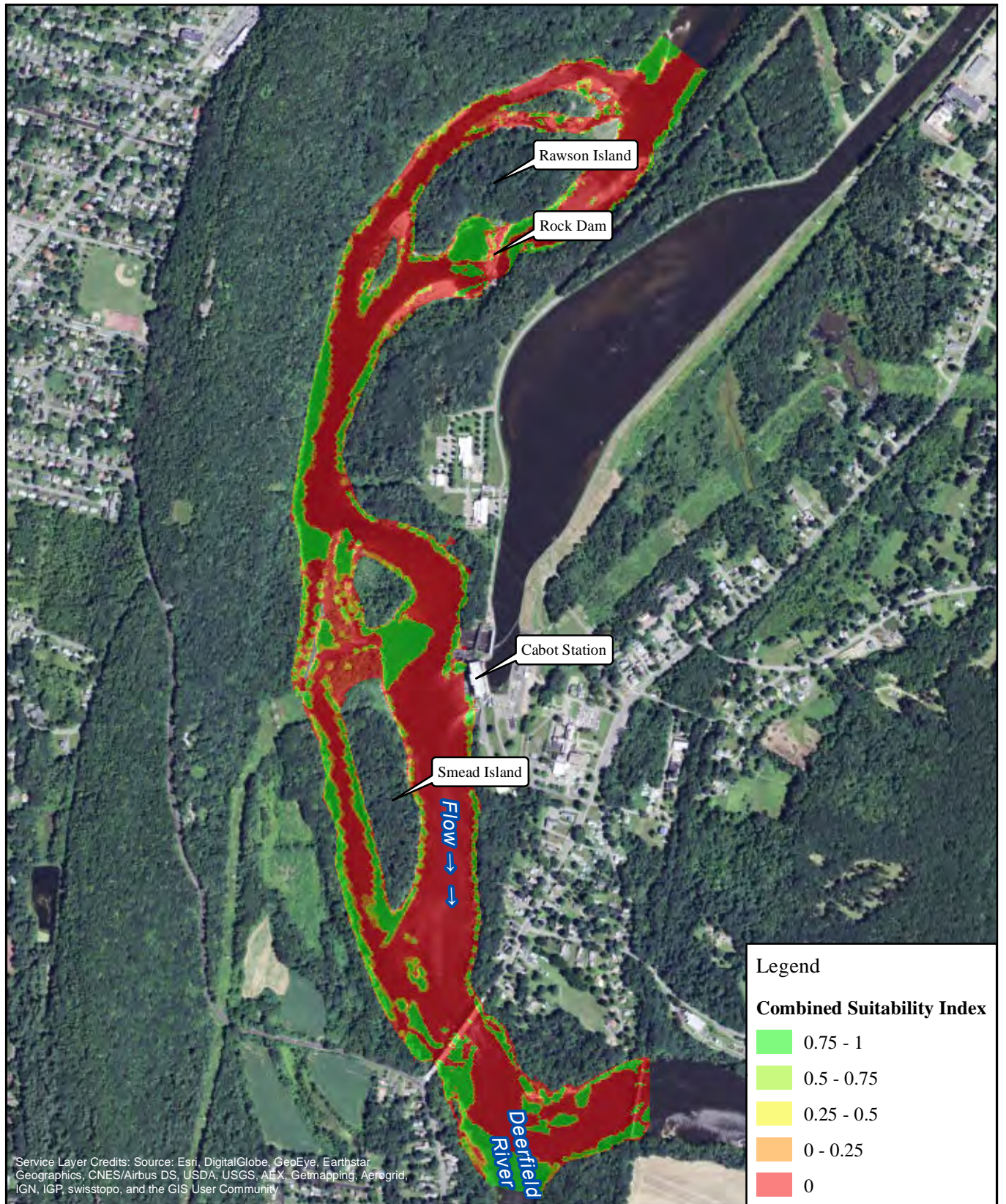
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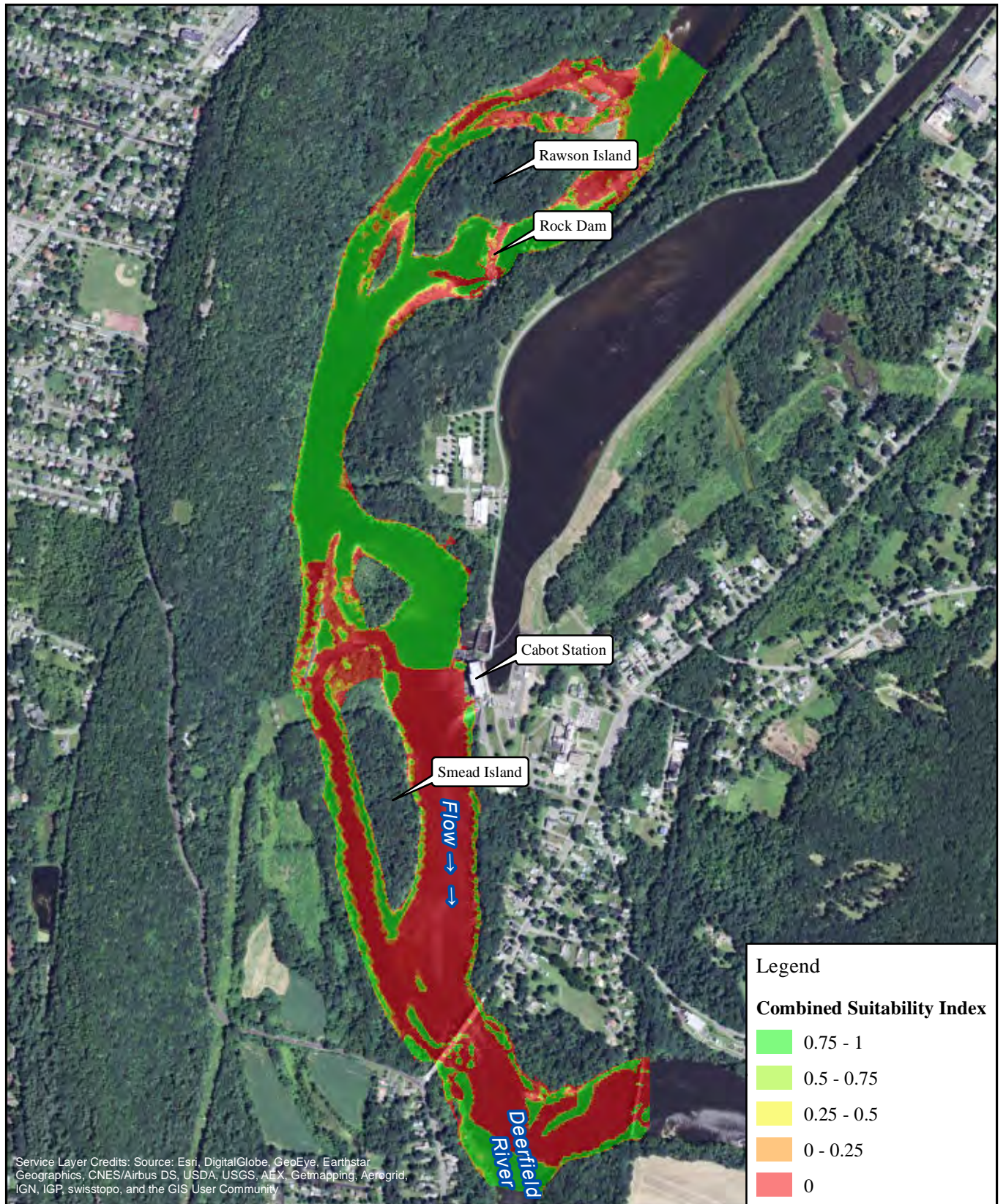
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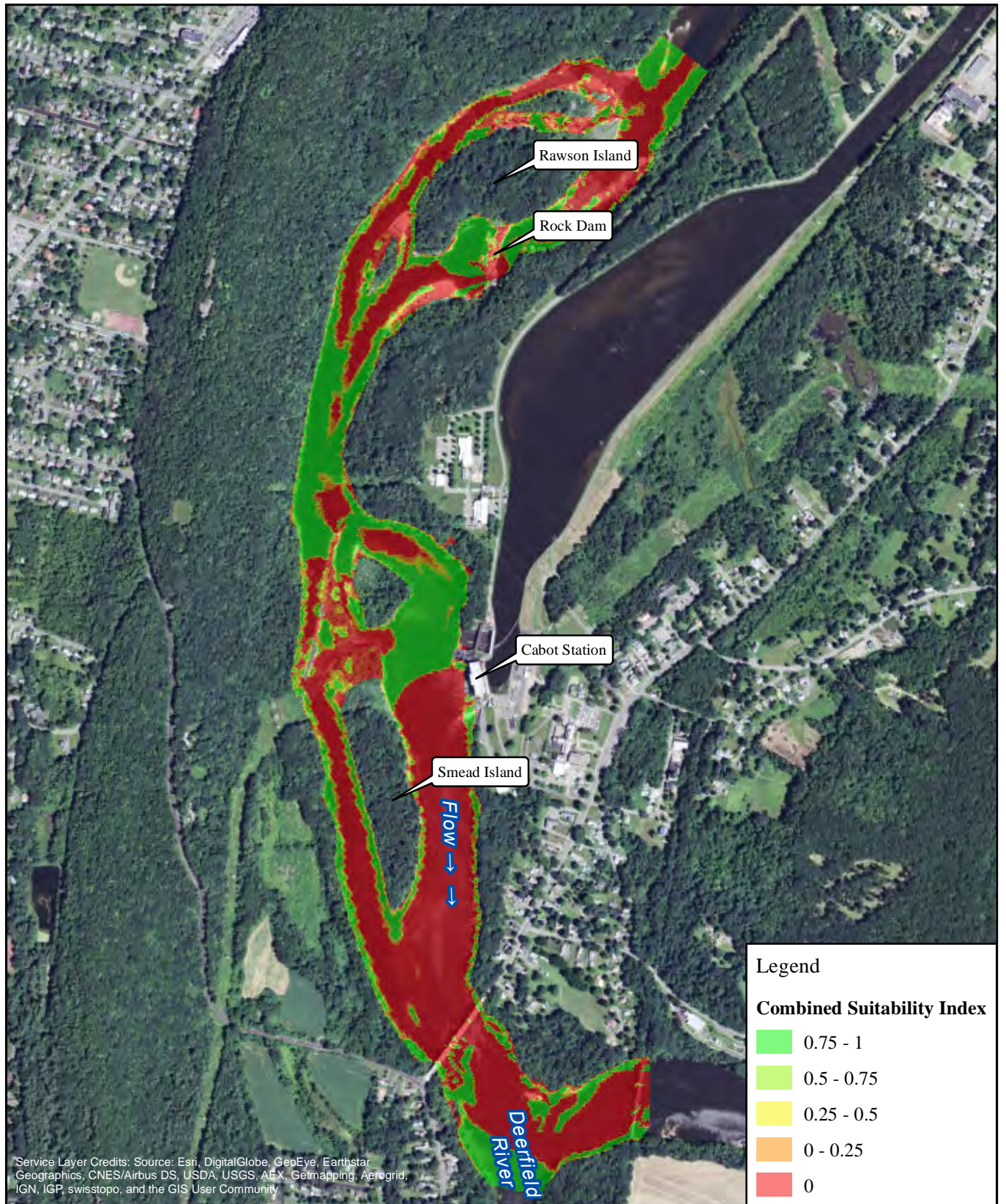
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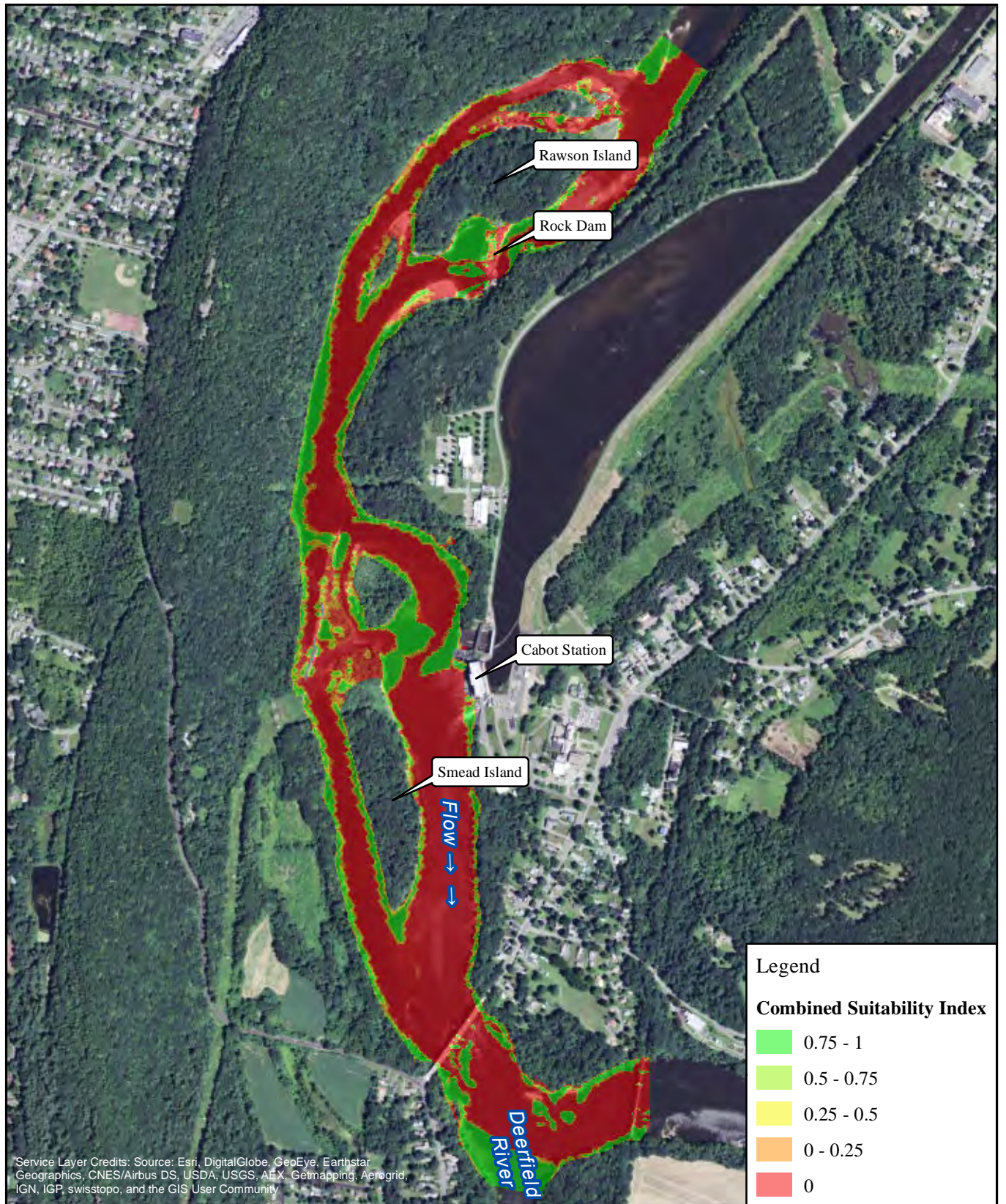
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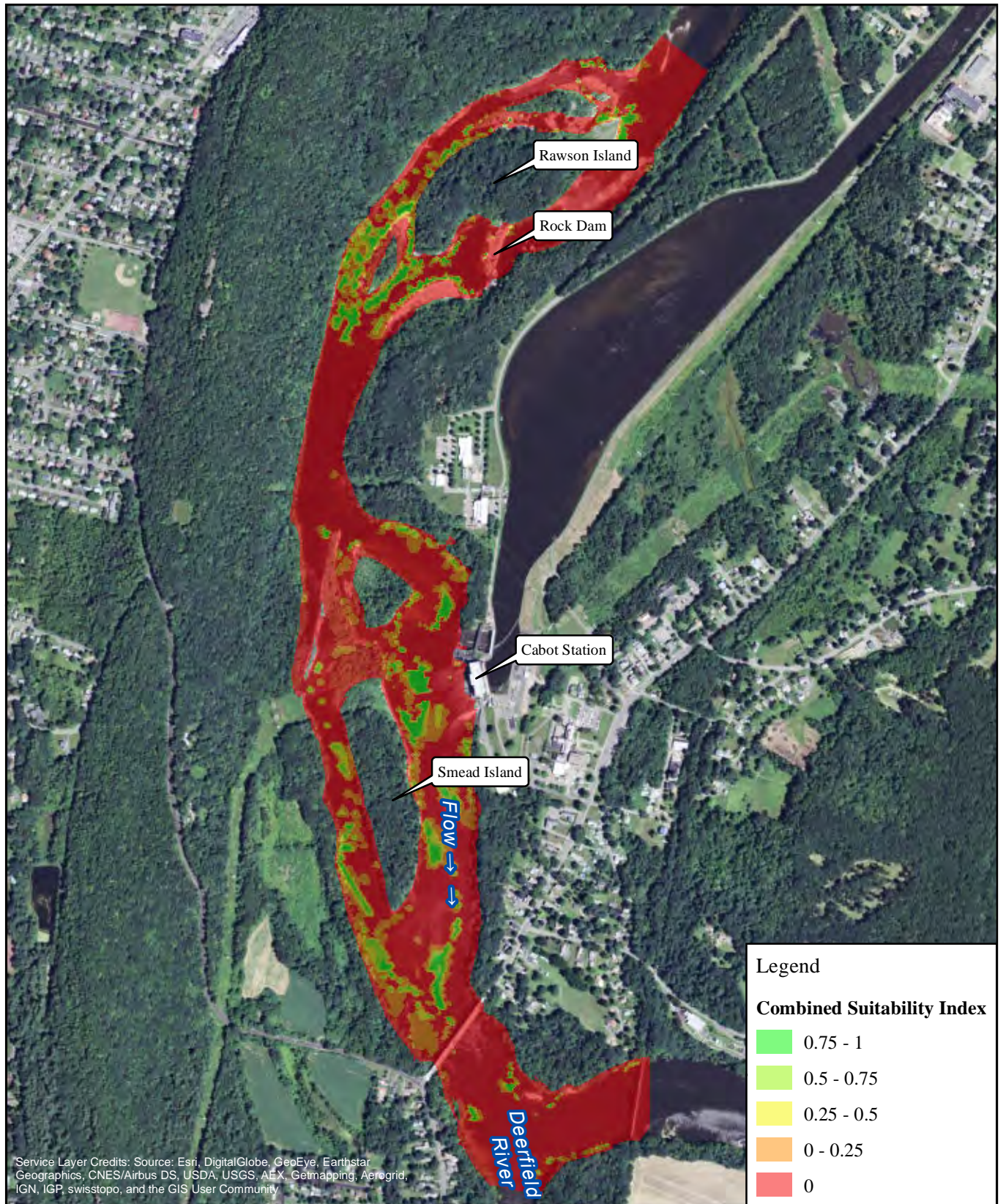
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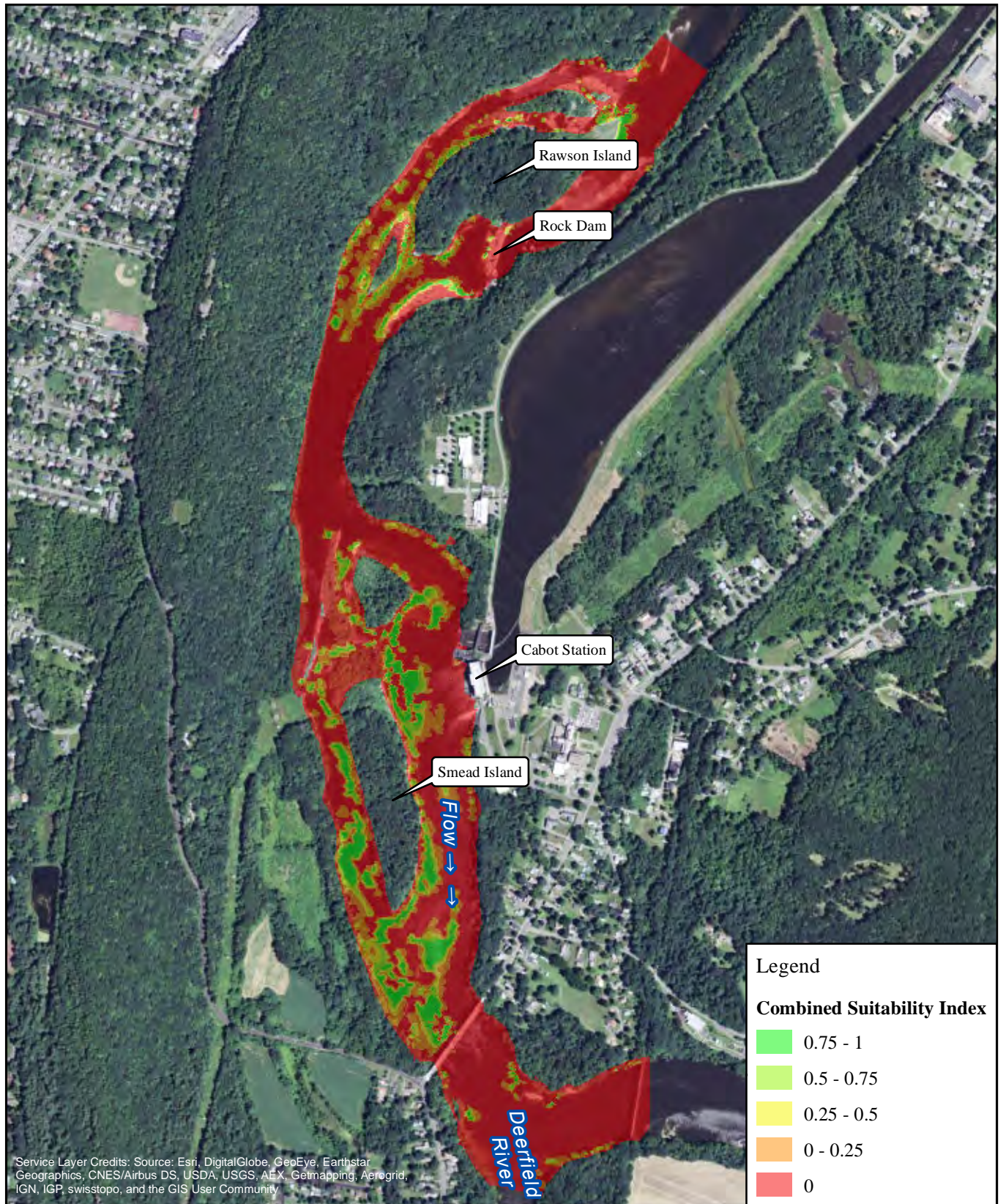
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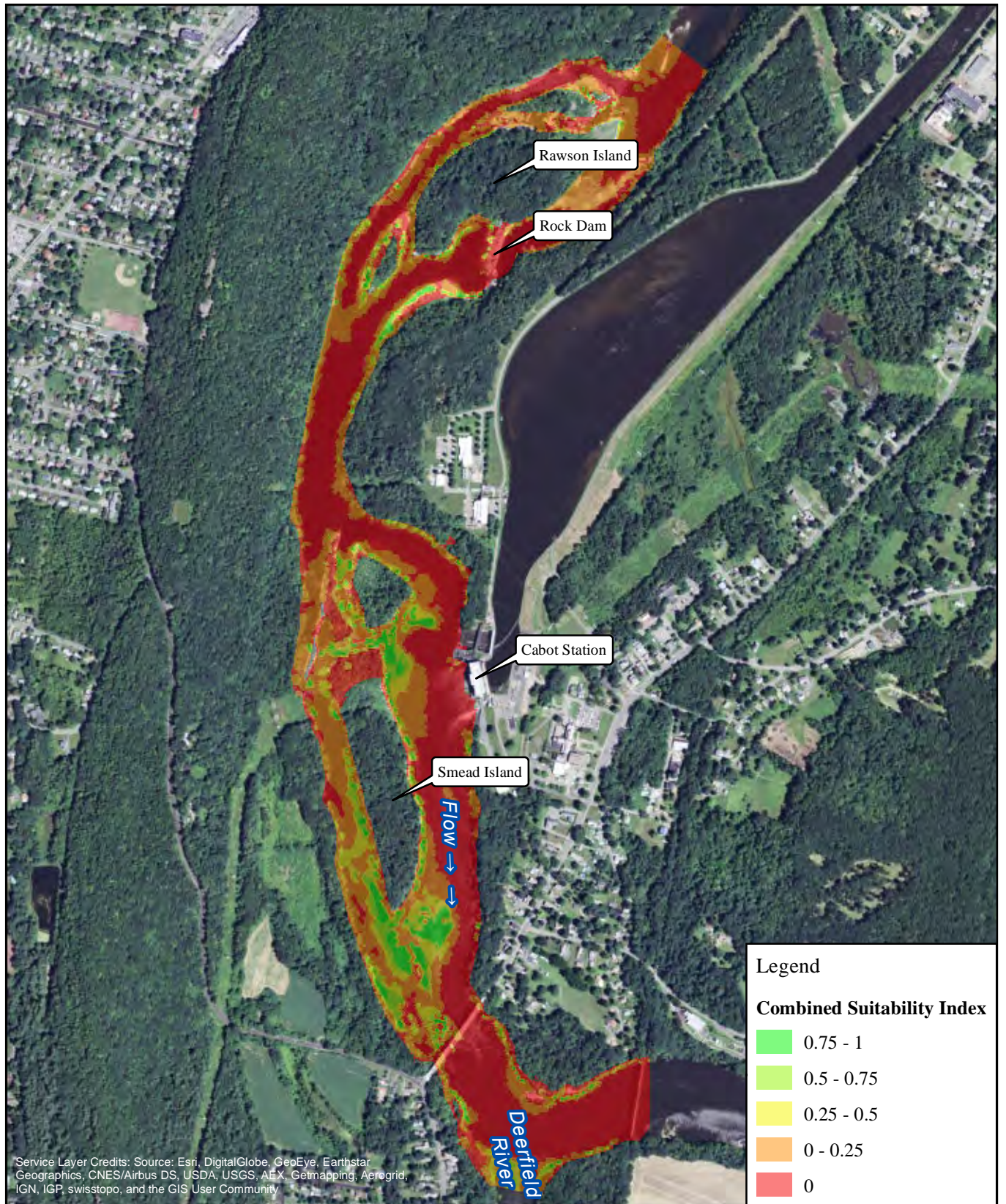
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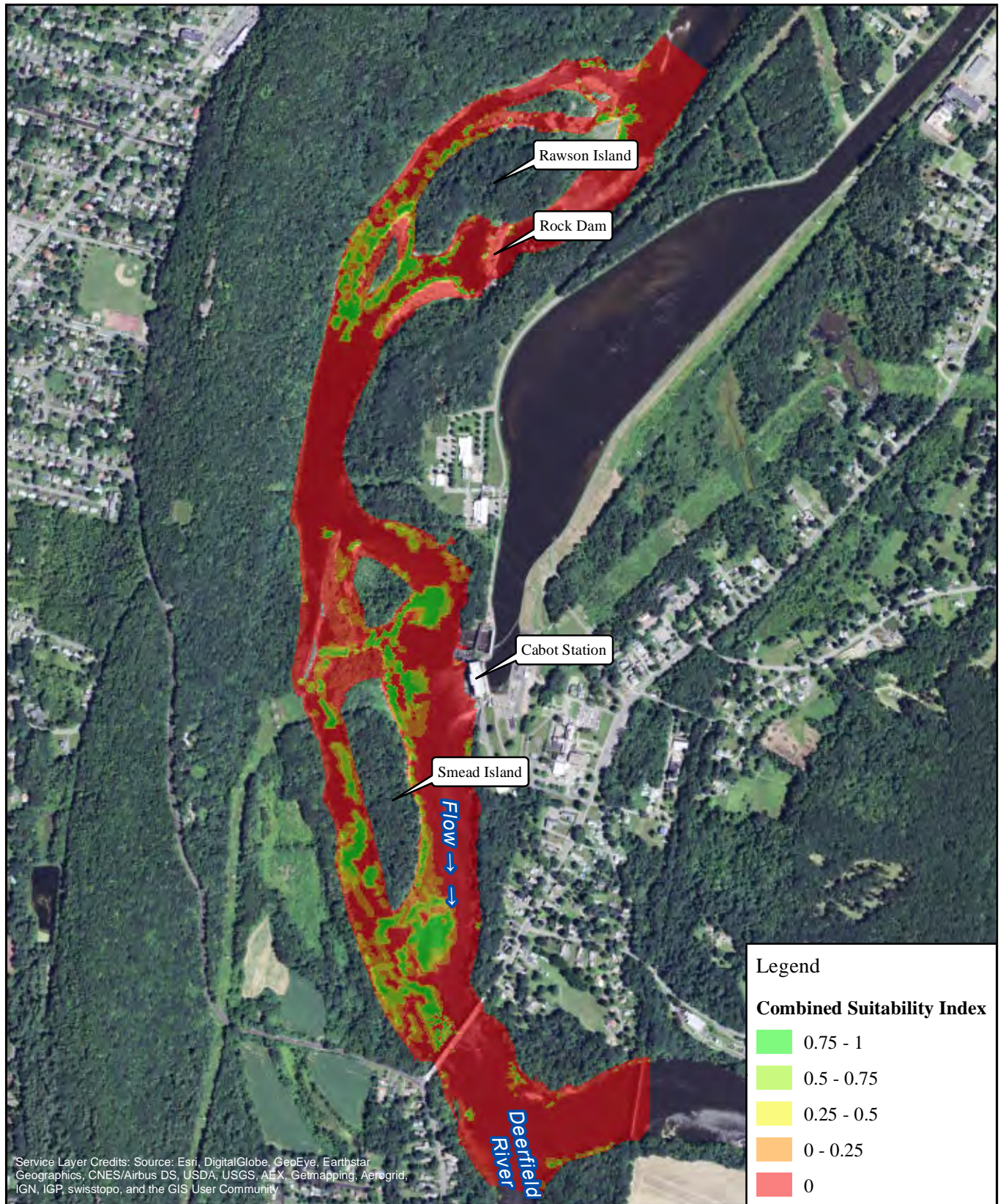
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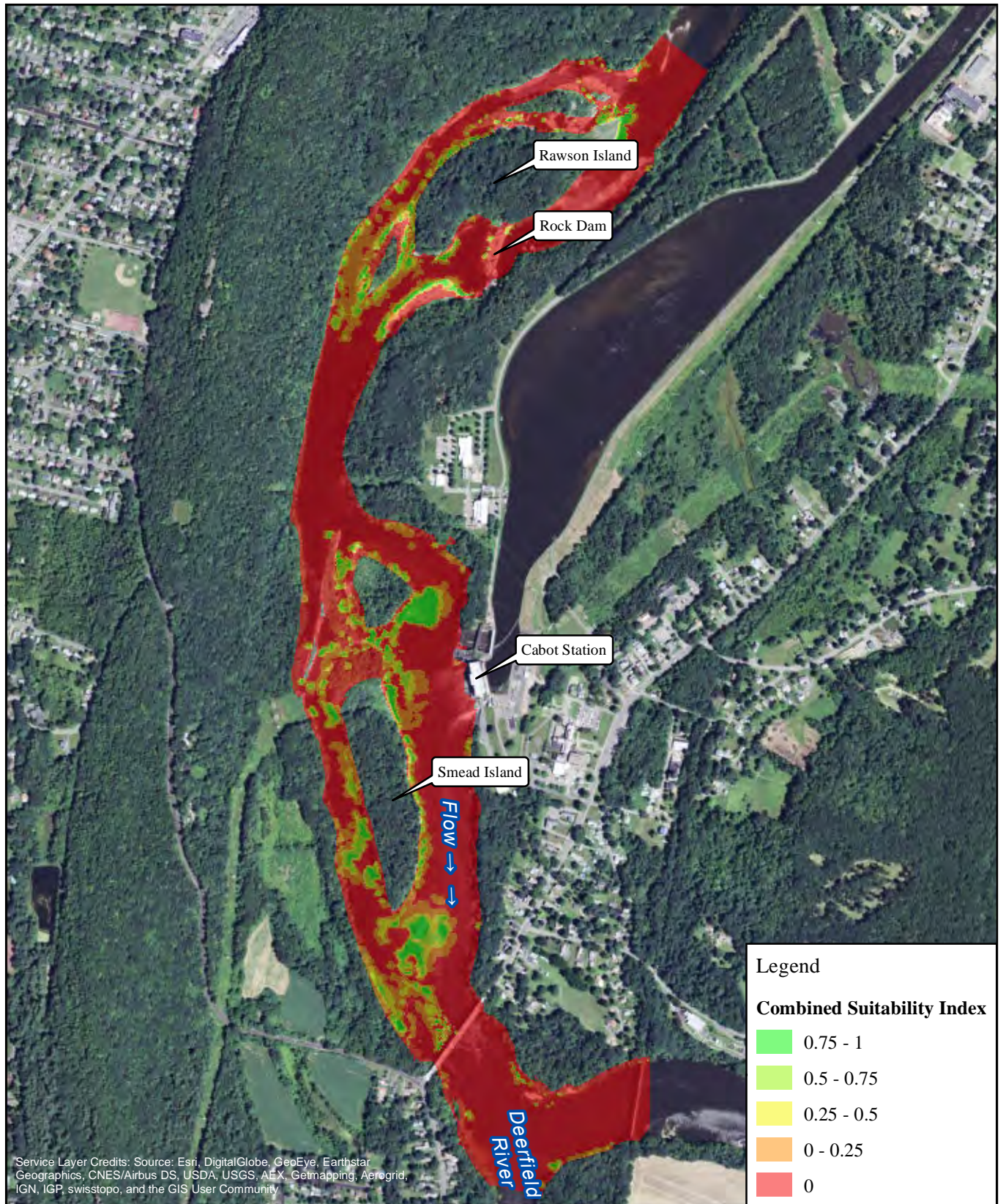
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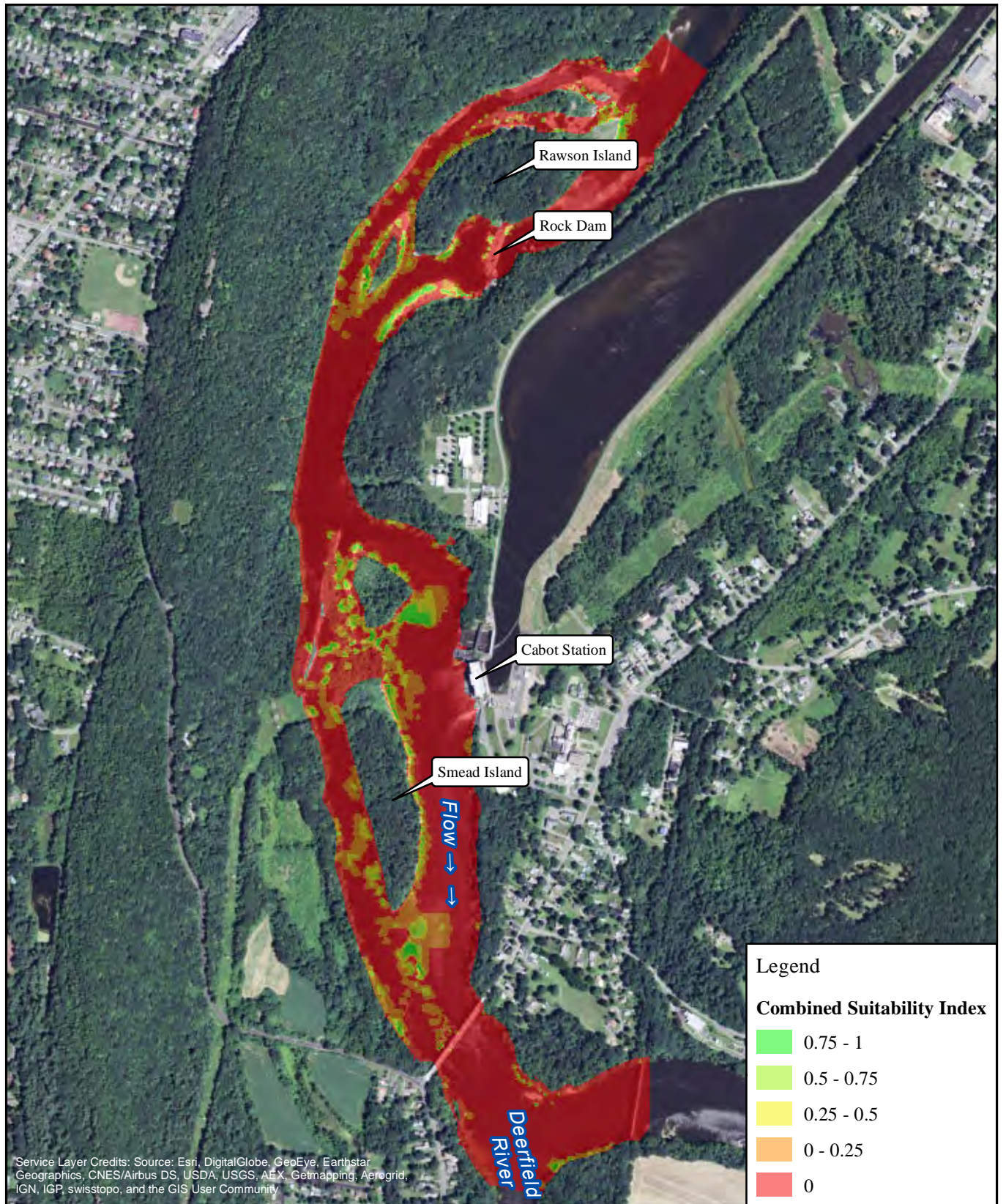
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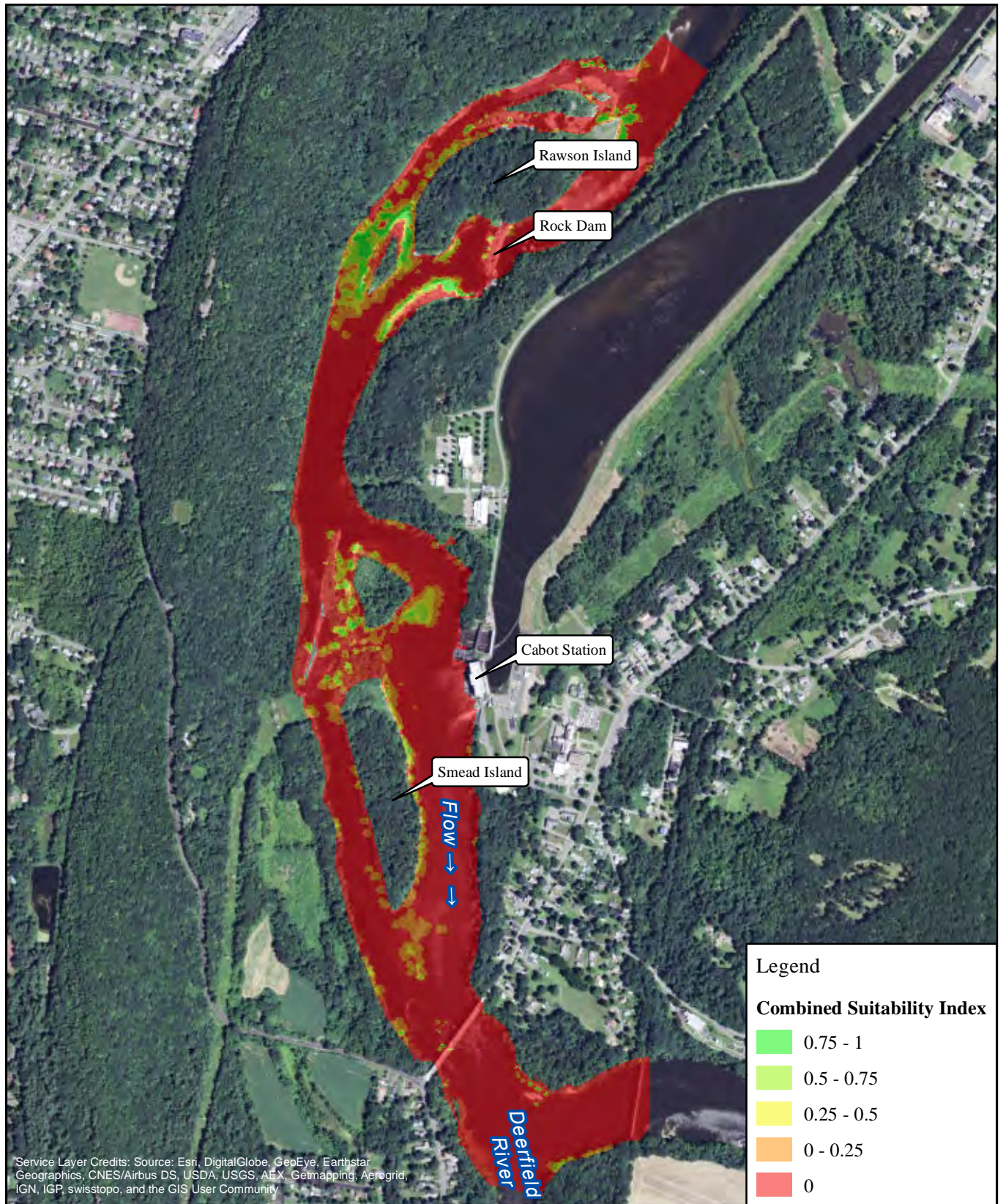
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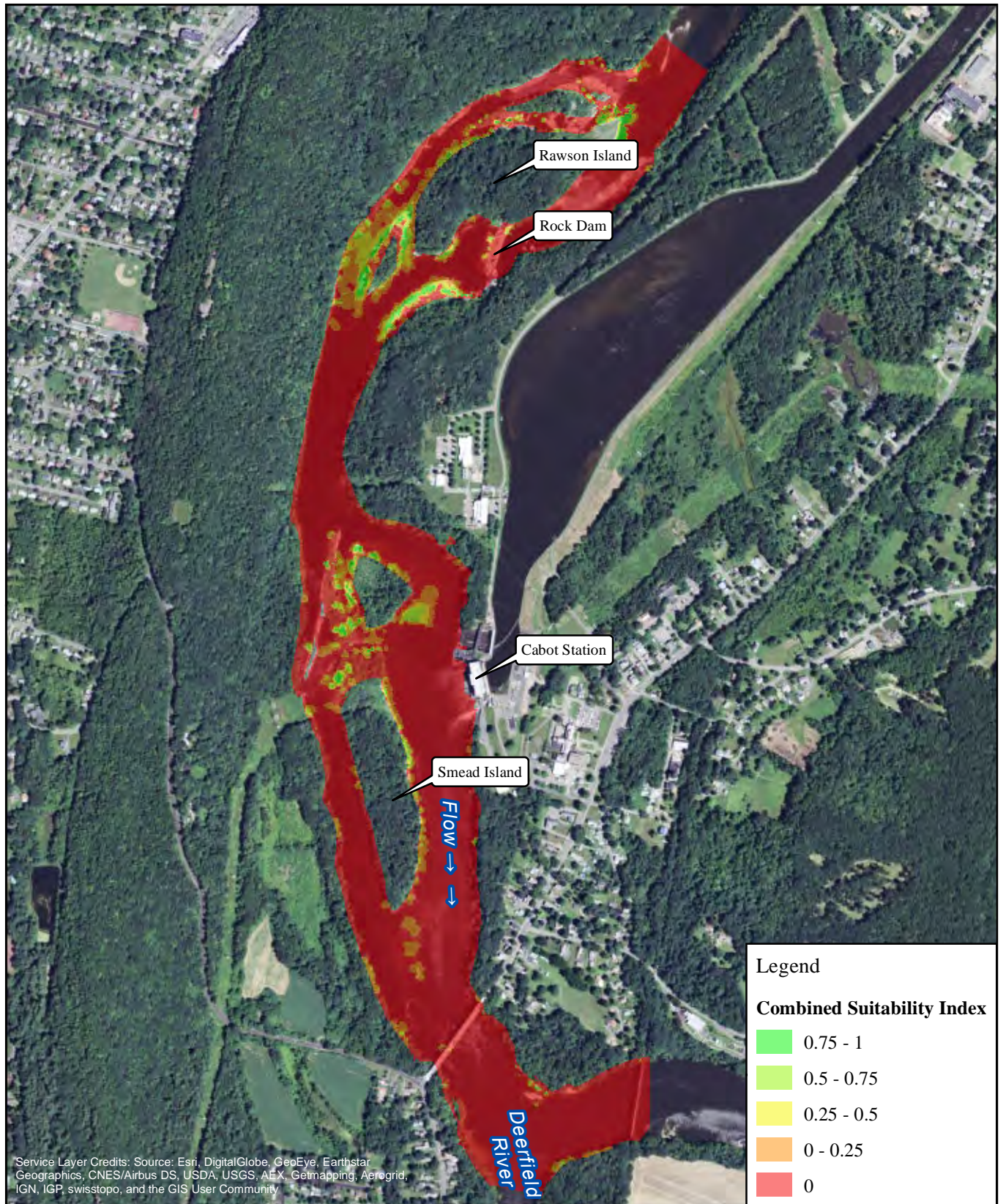
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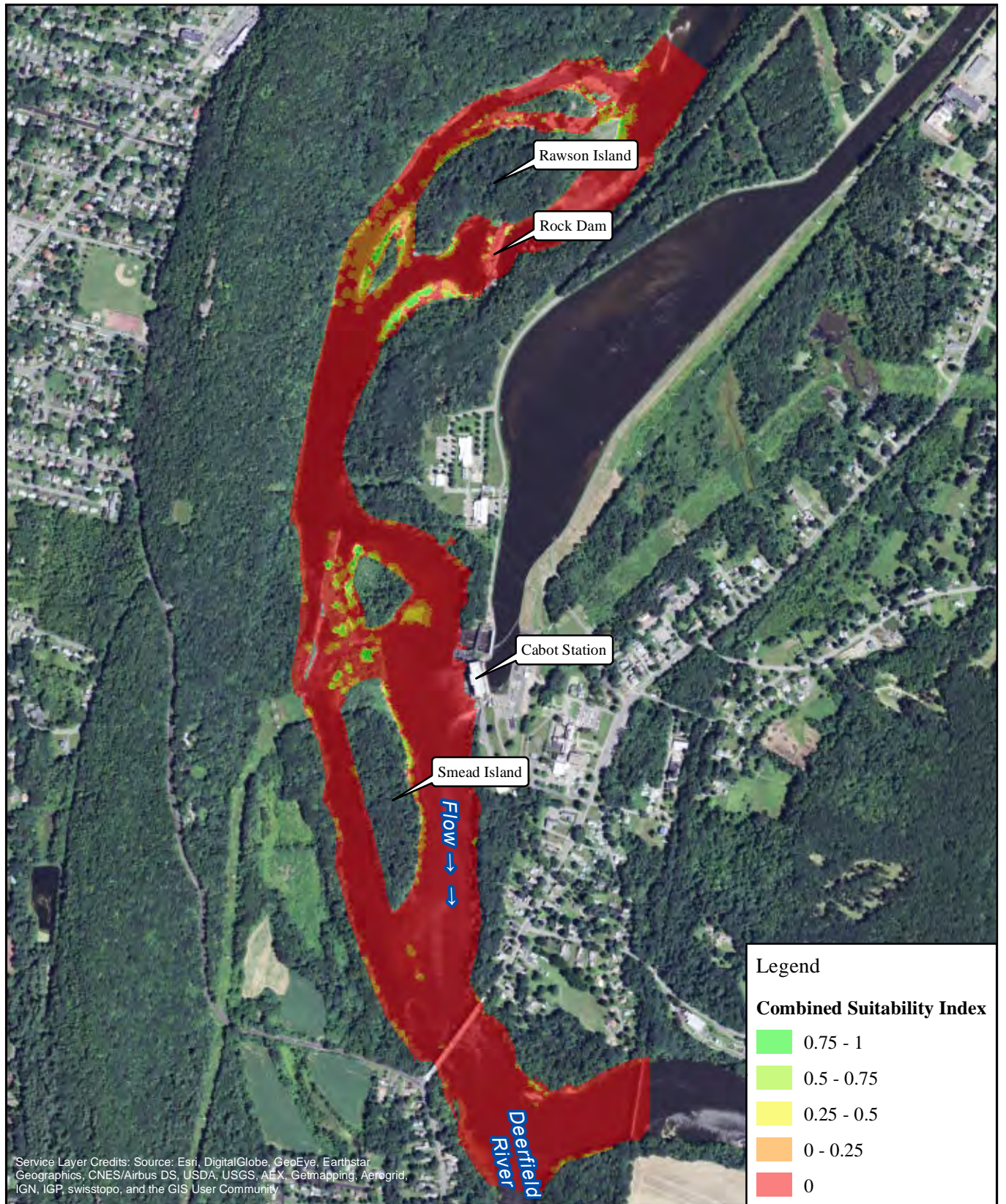
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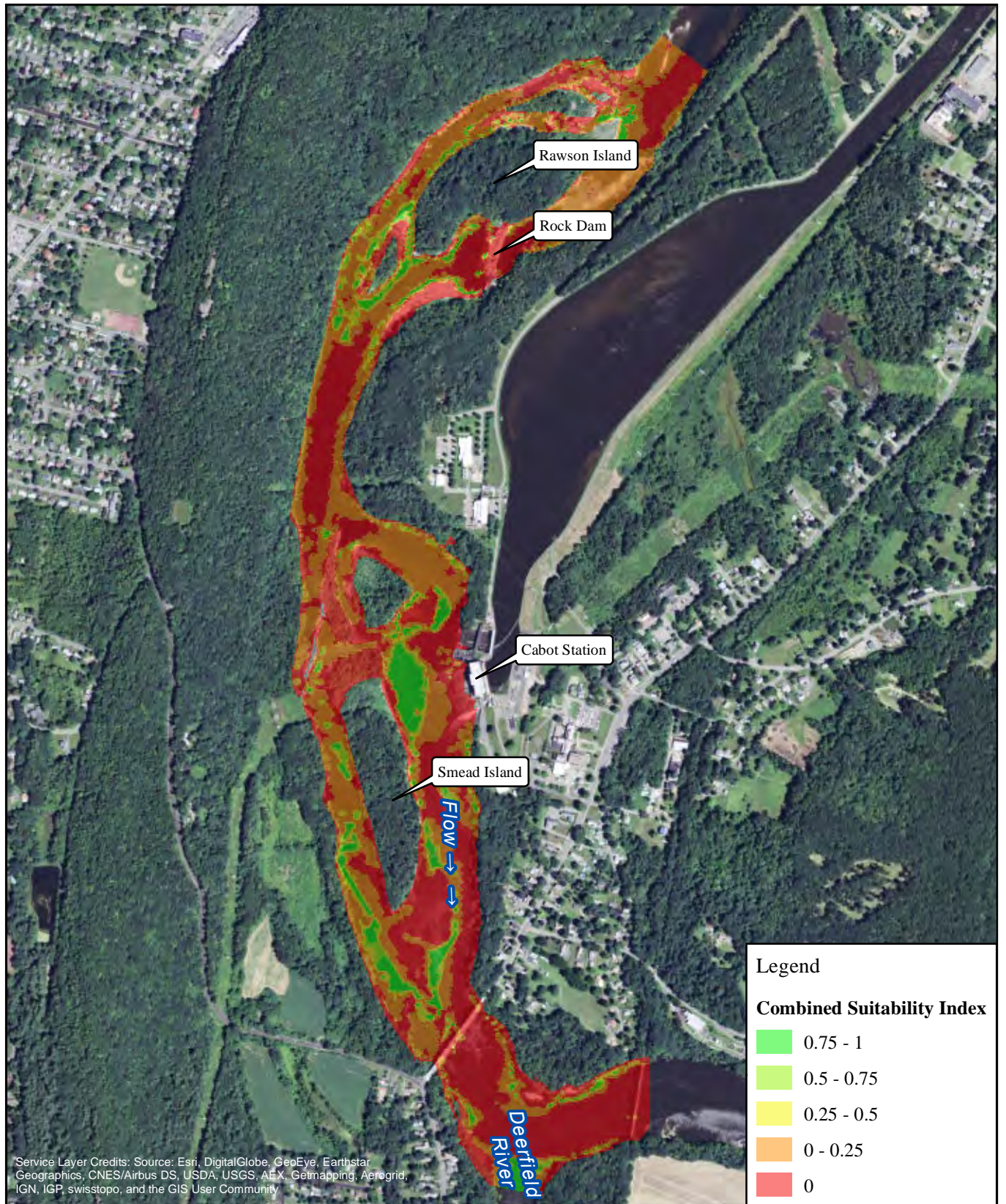
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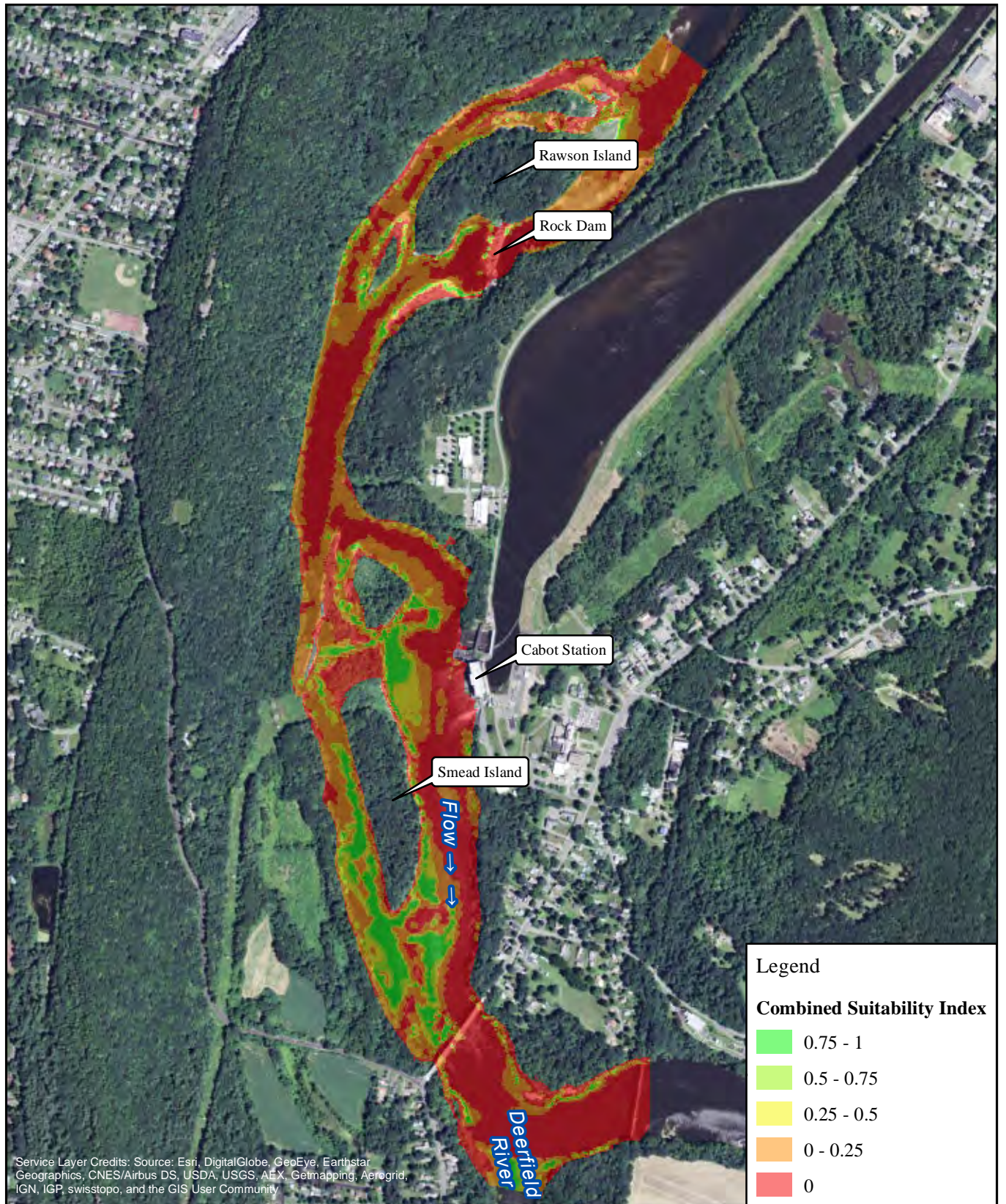
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Feet

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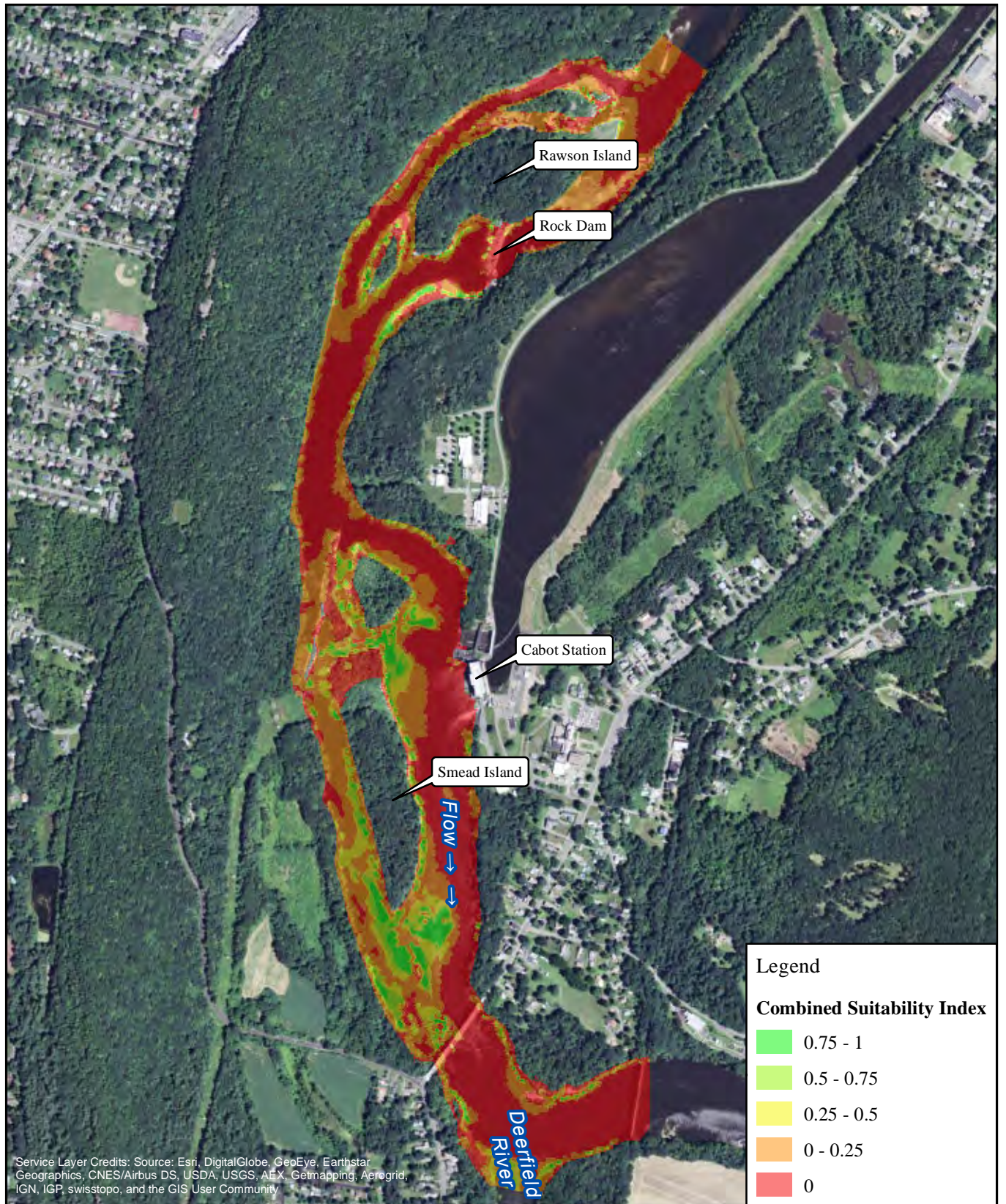
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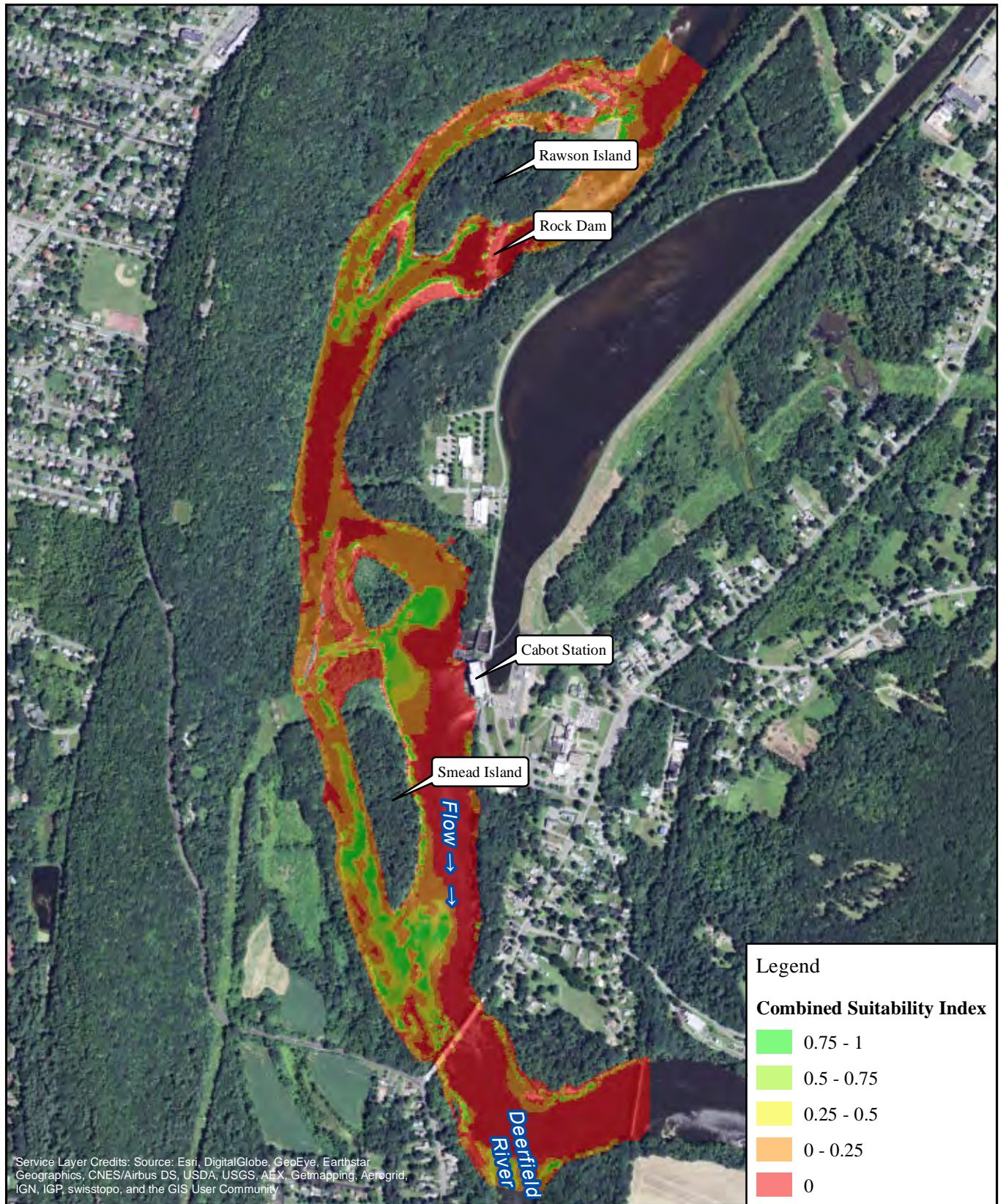
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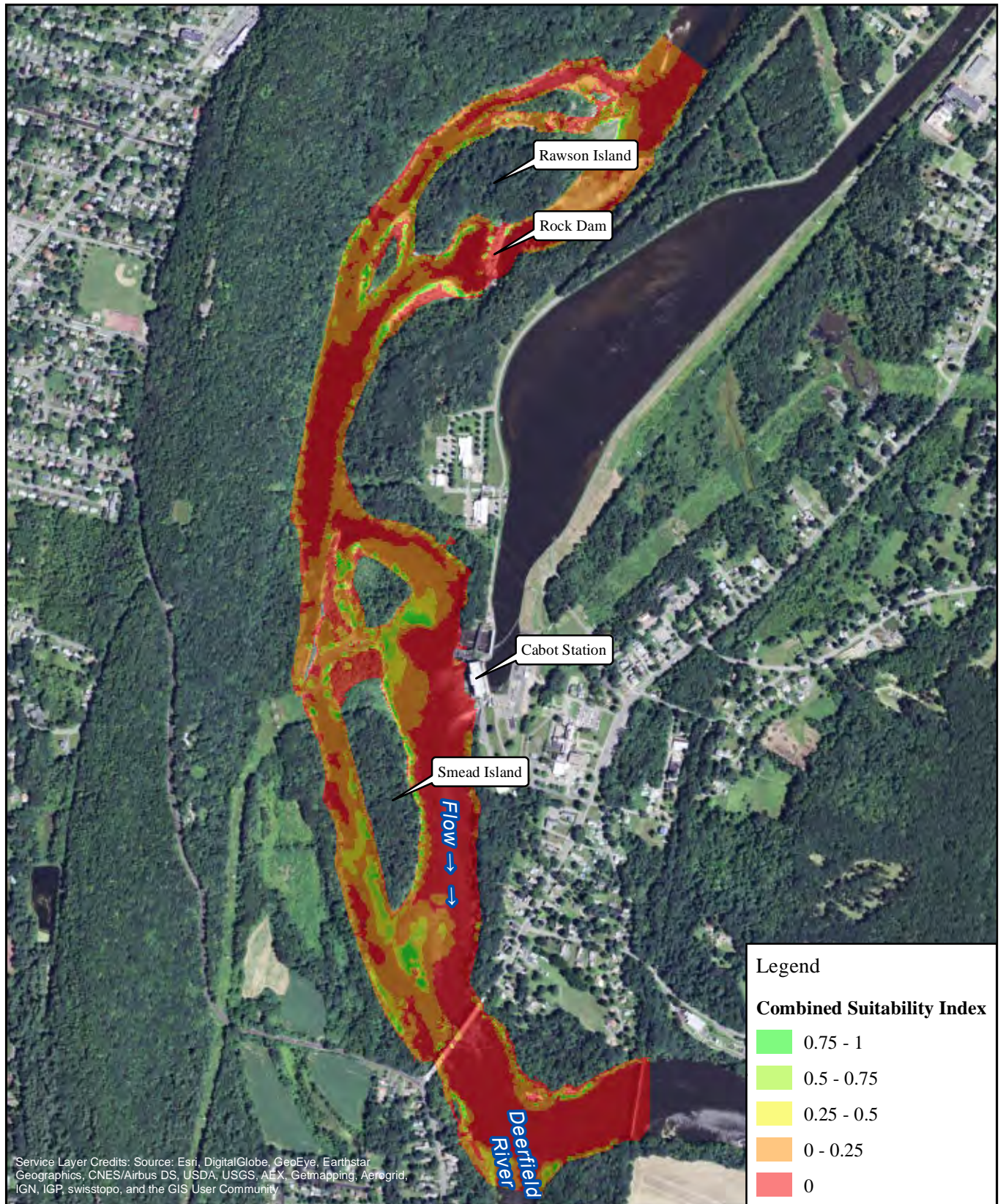
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Fallfish-Fry
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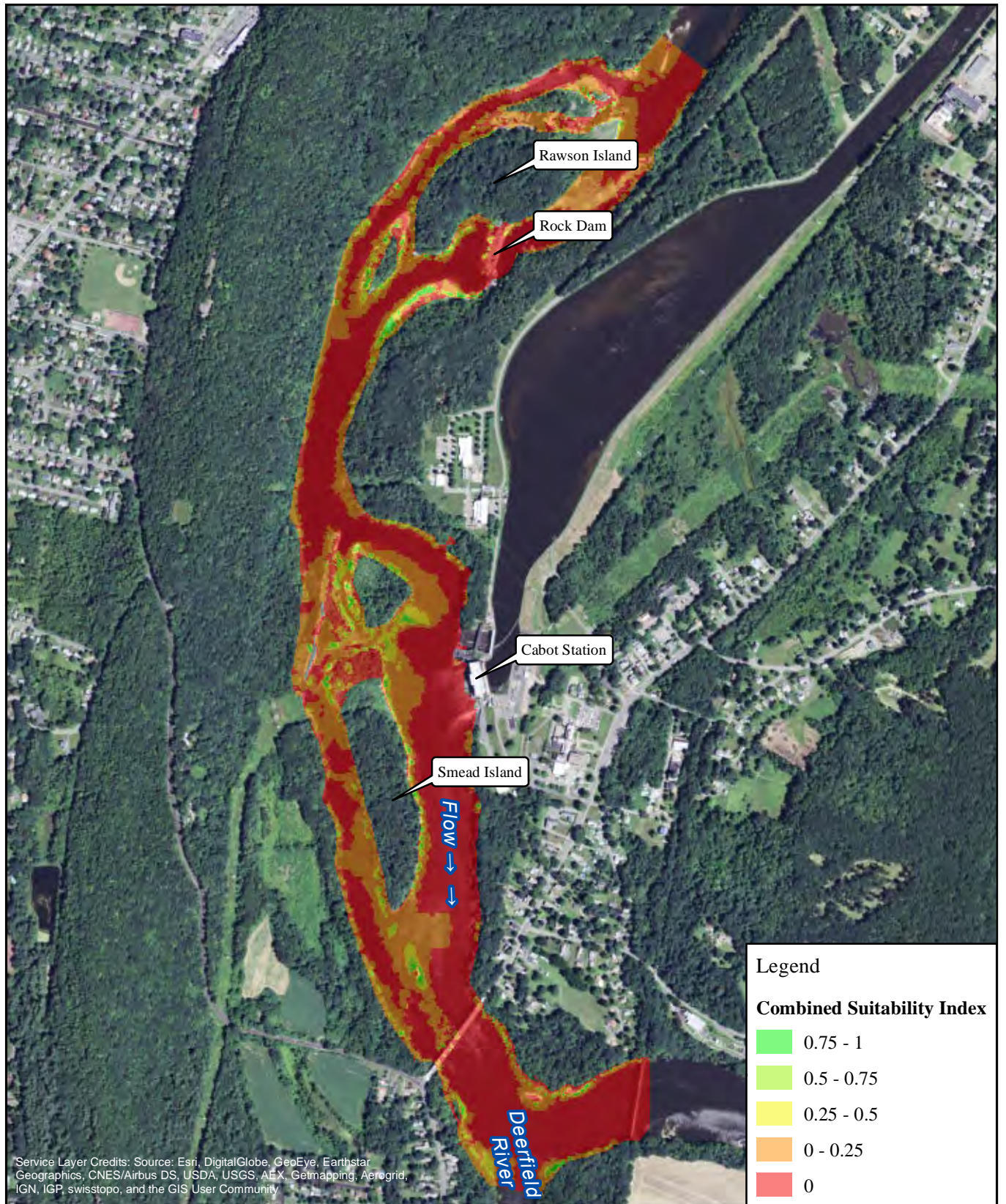
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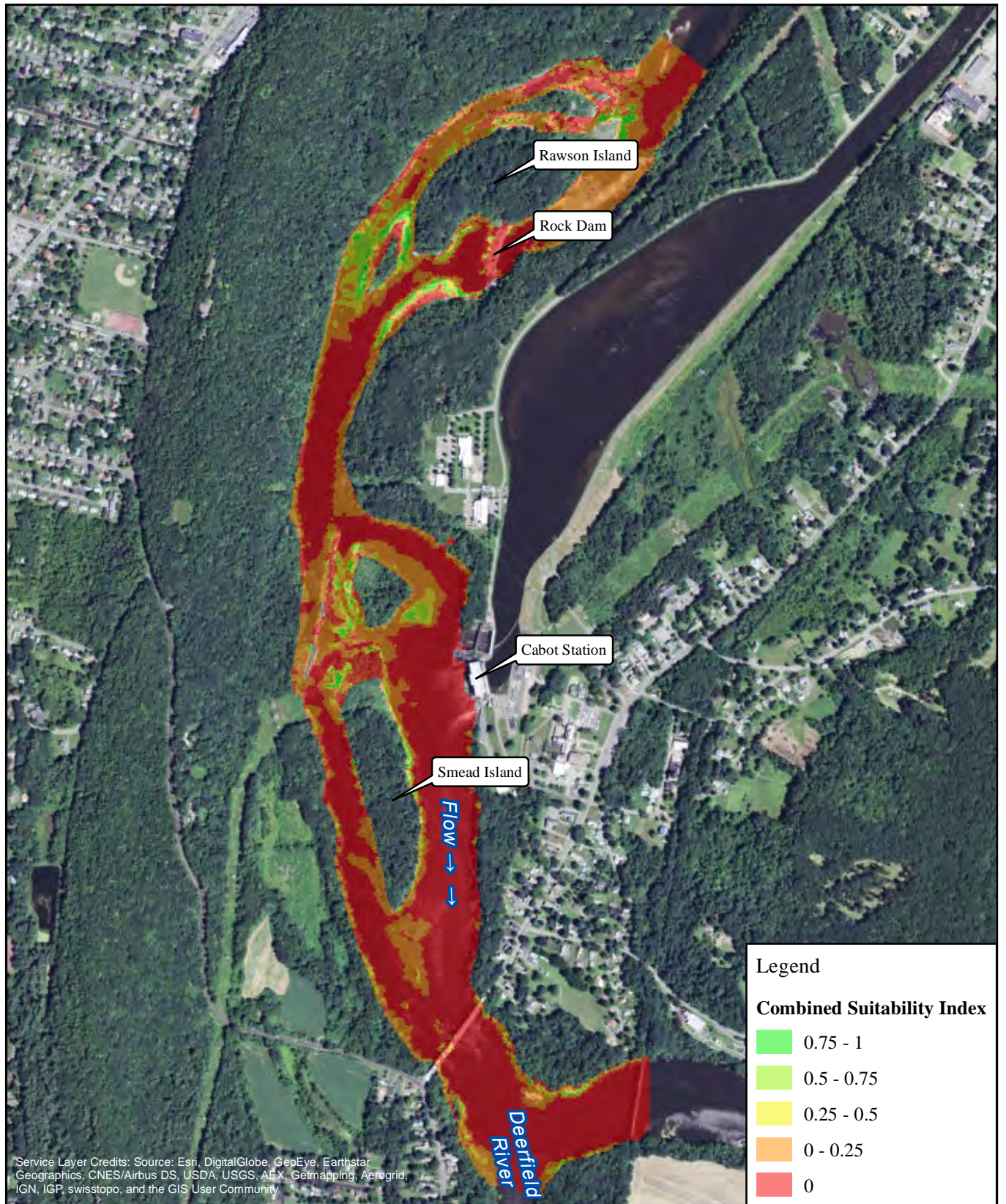
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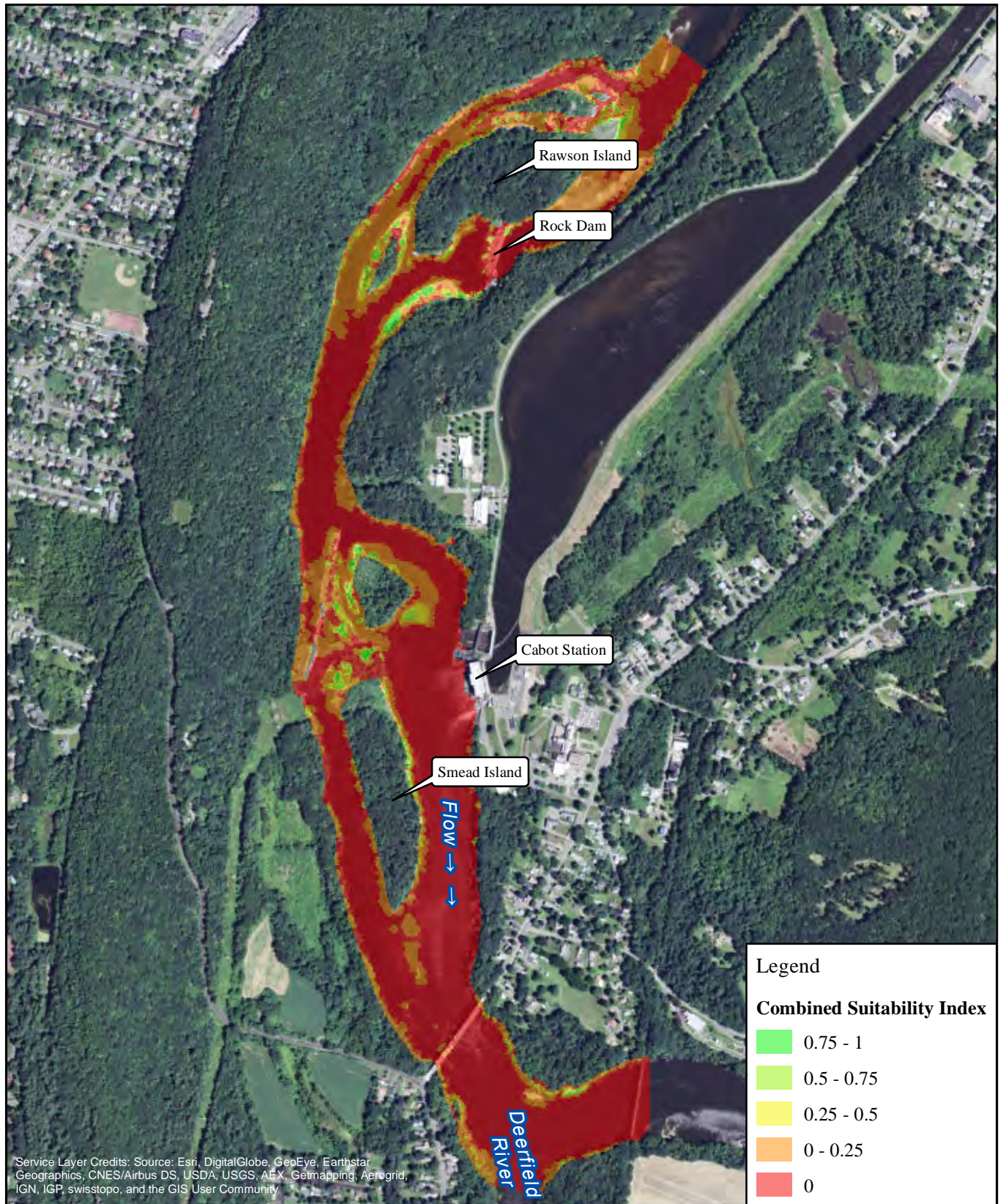
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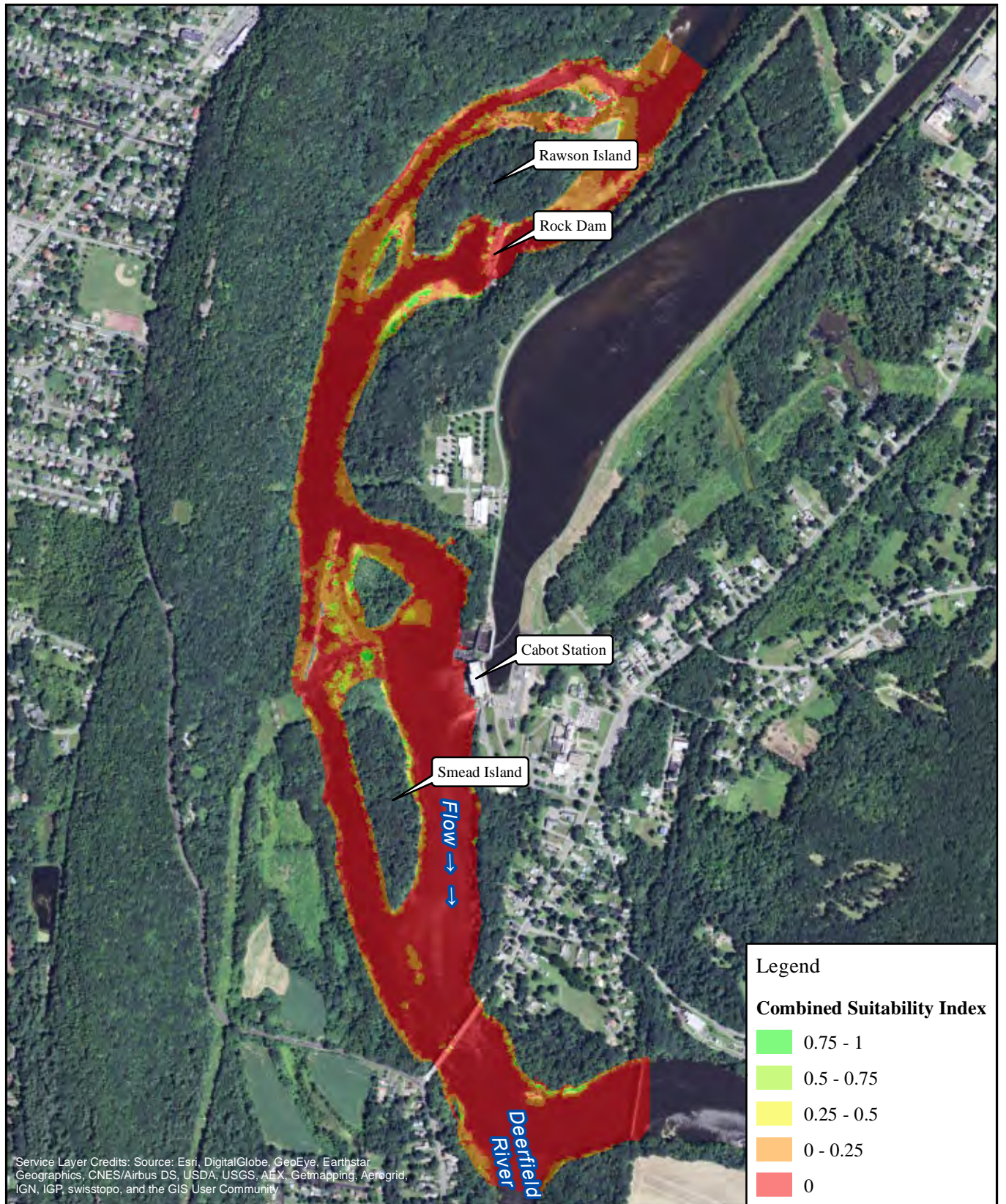
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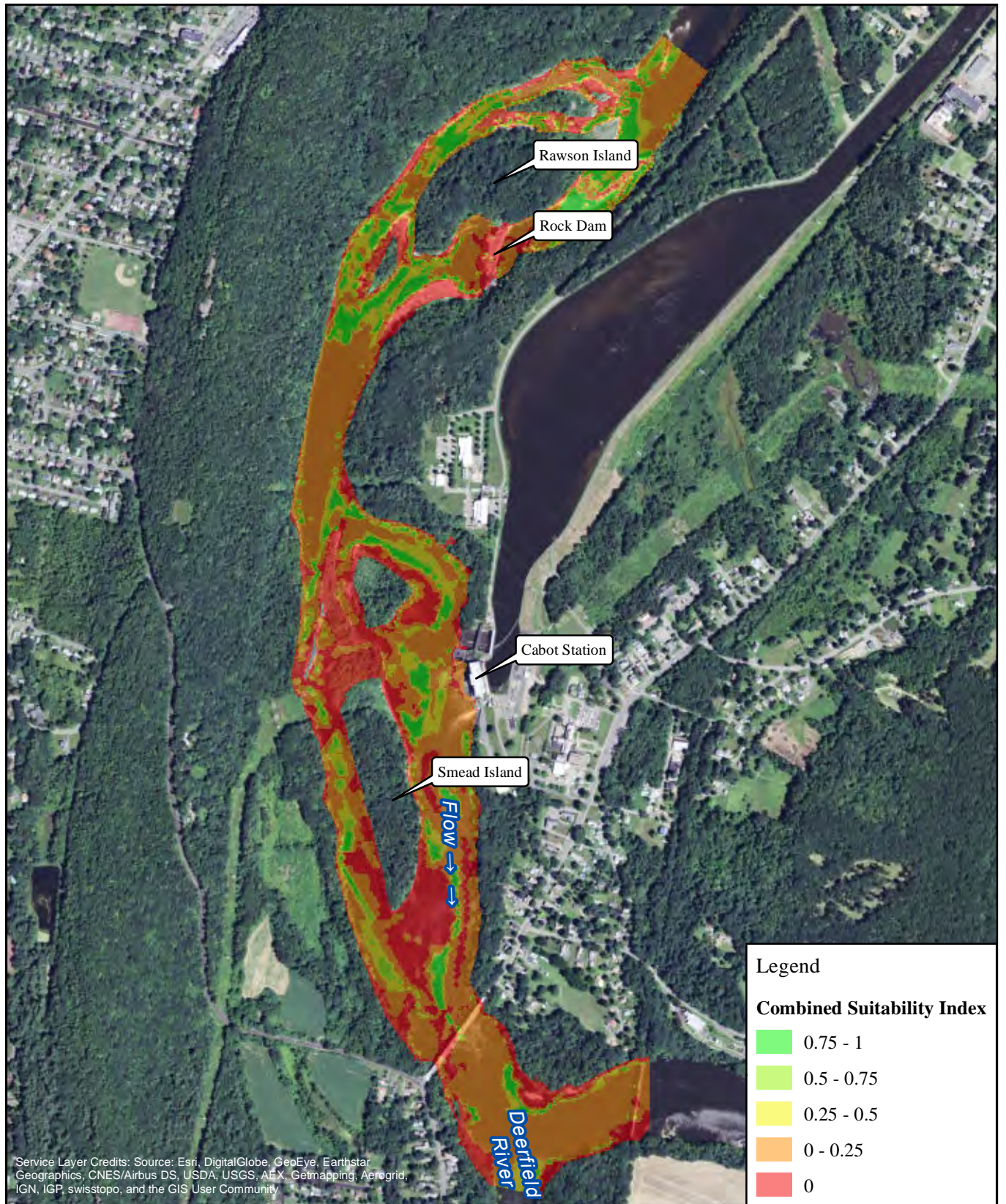
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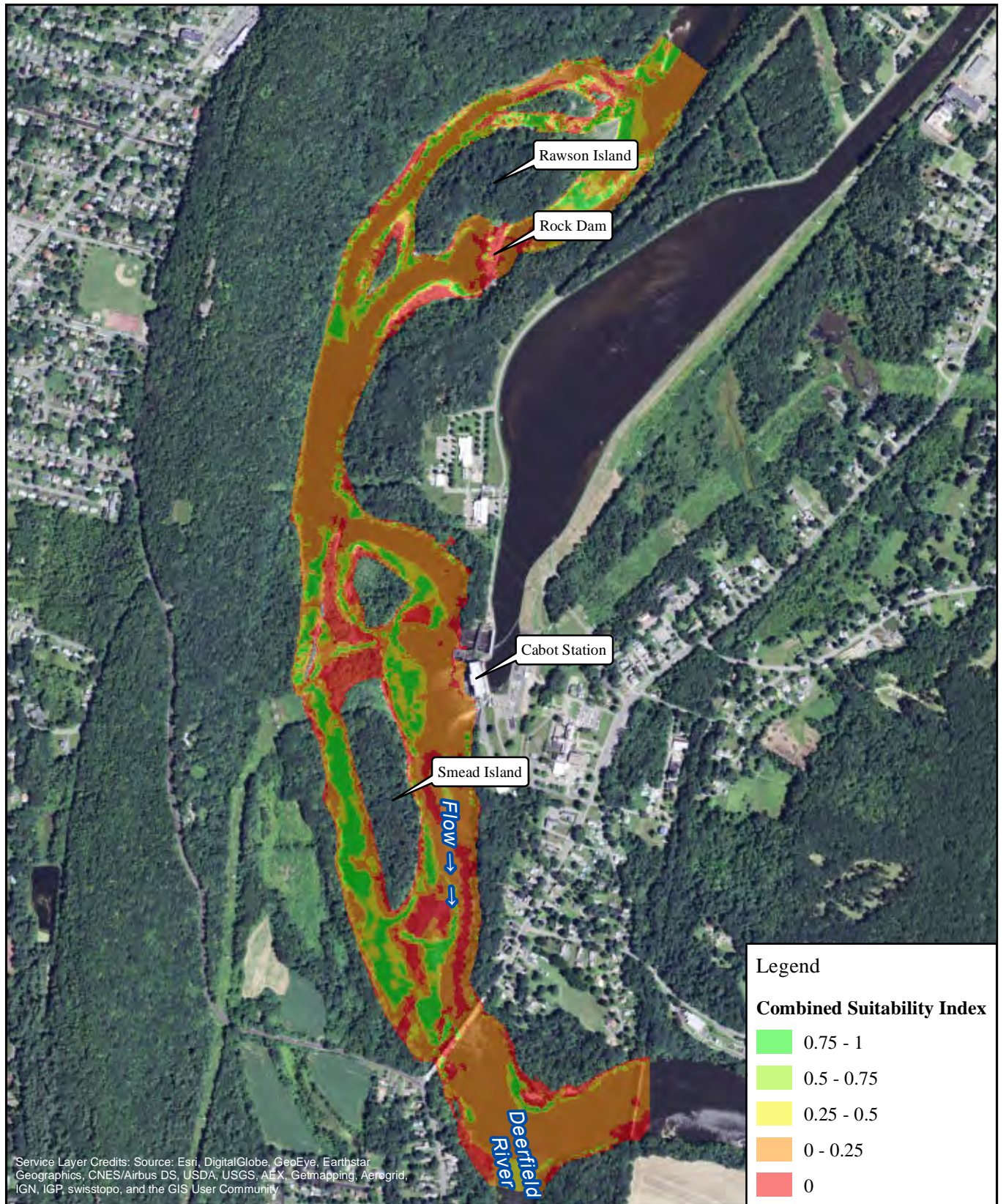
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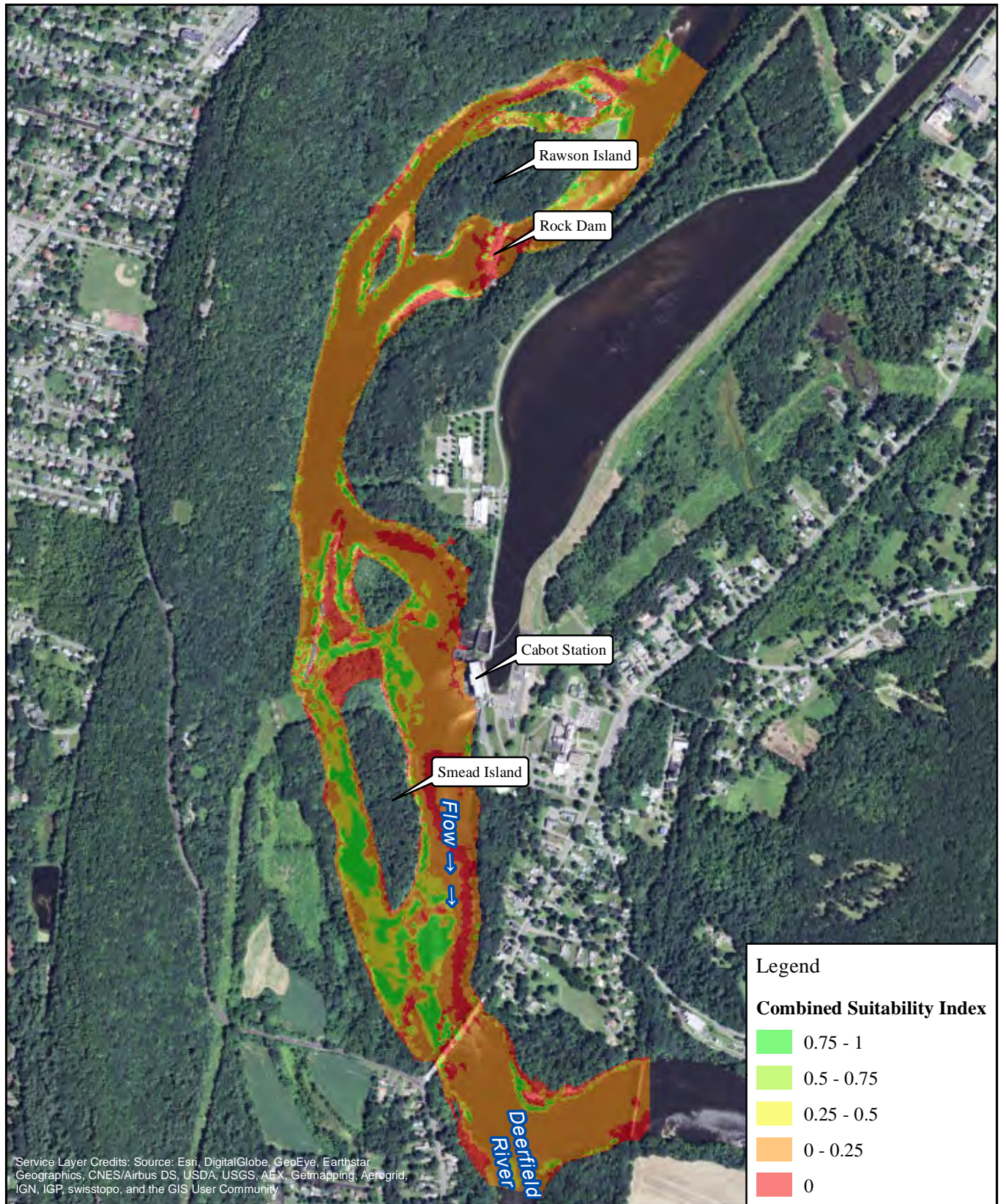
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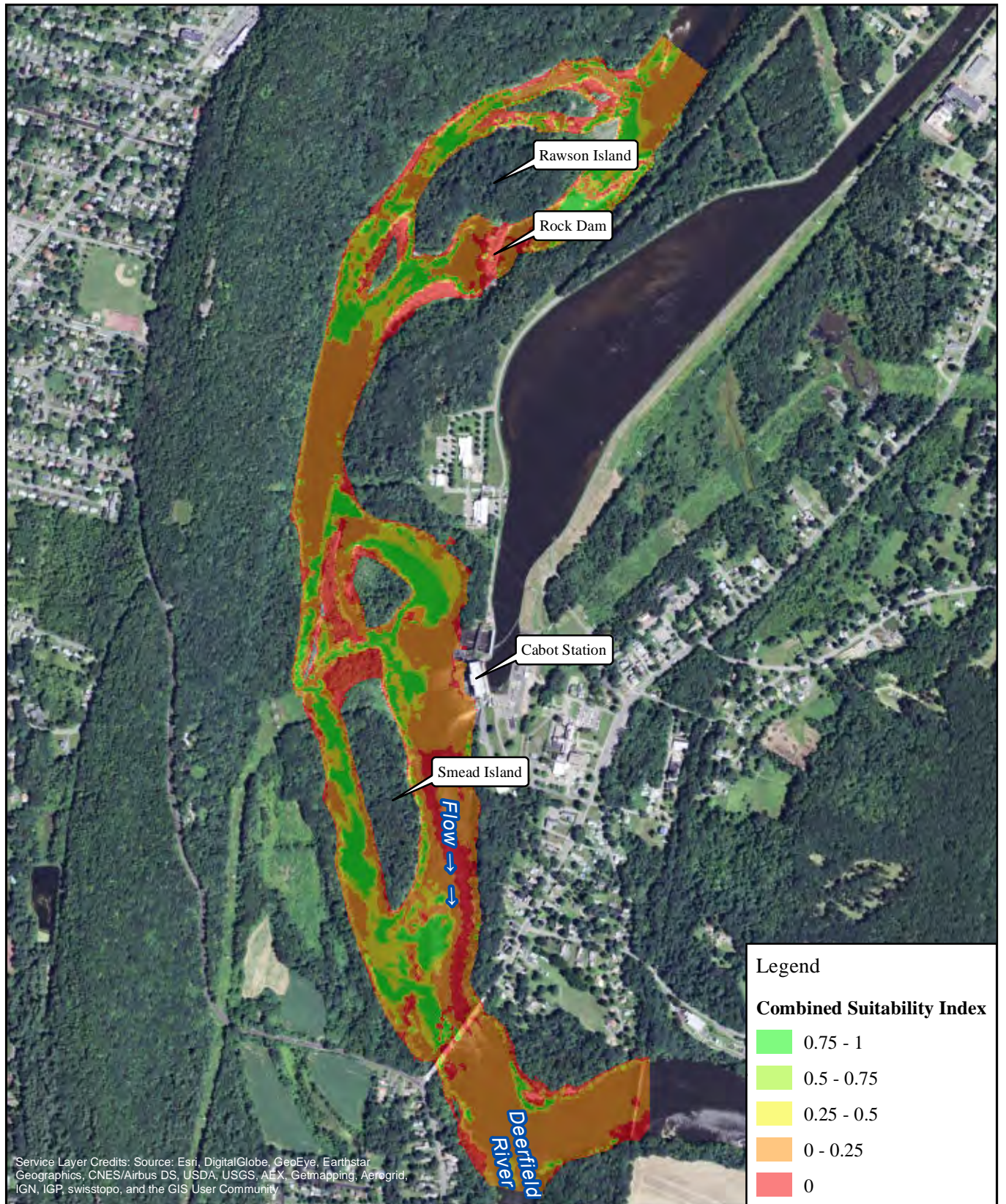
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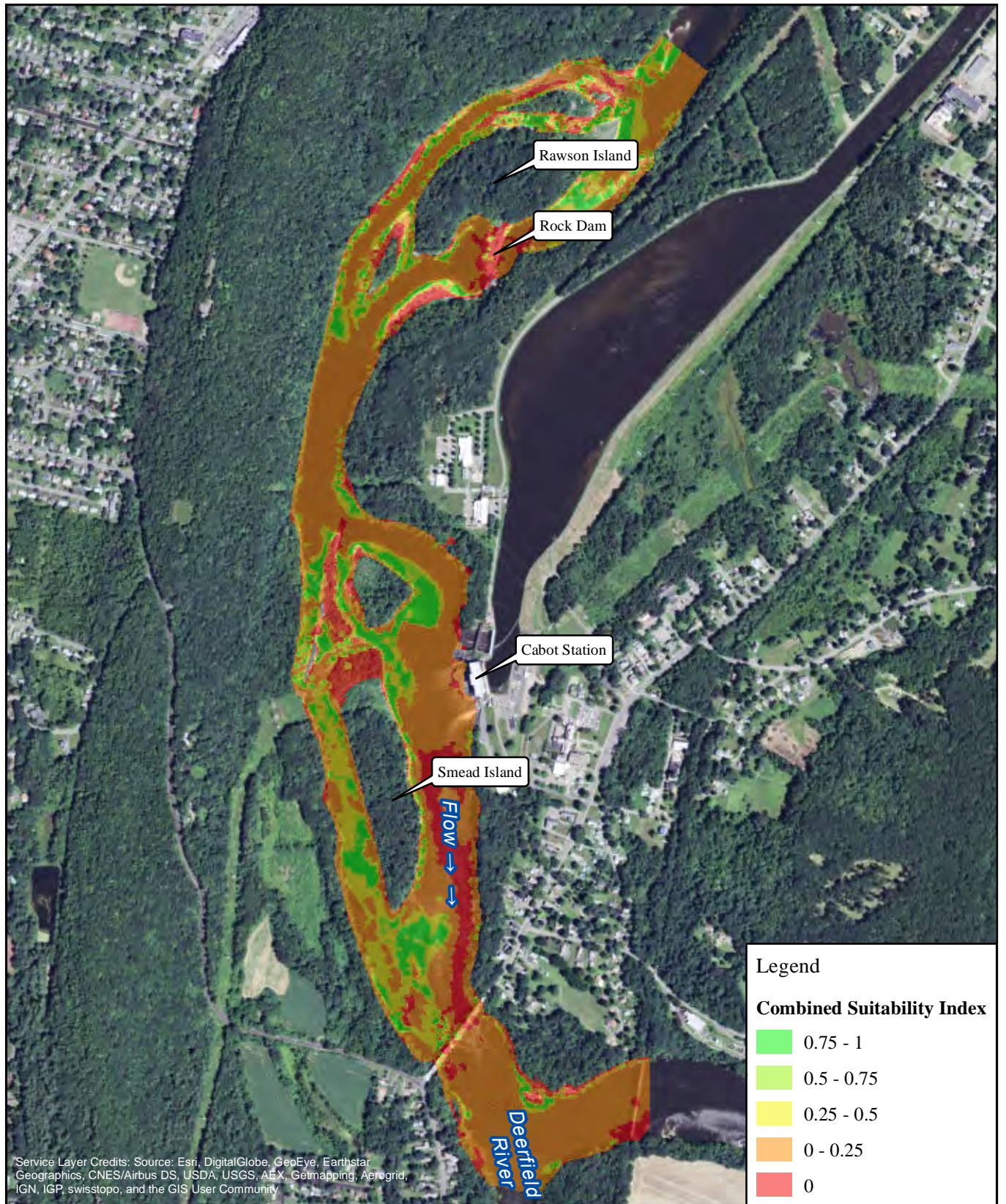
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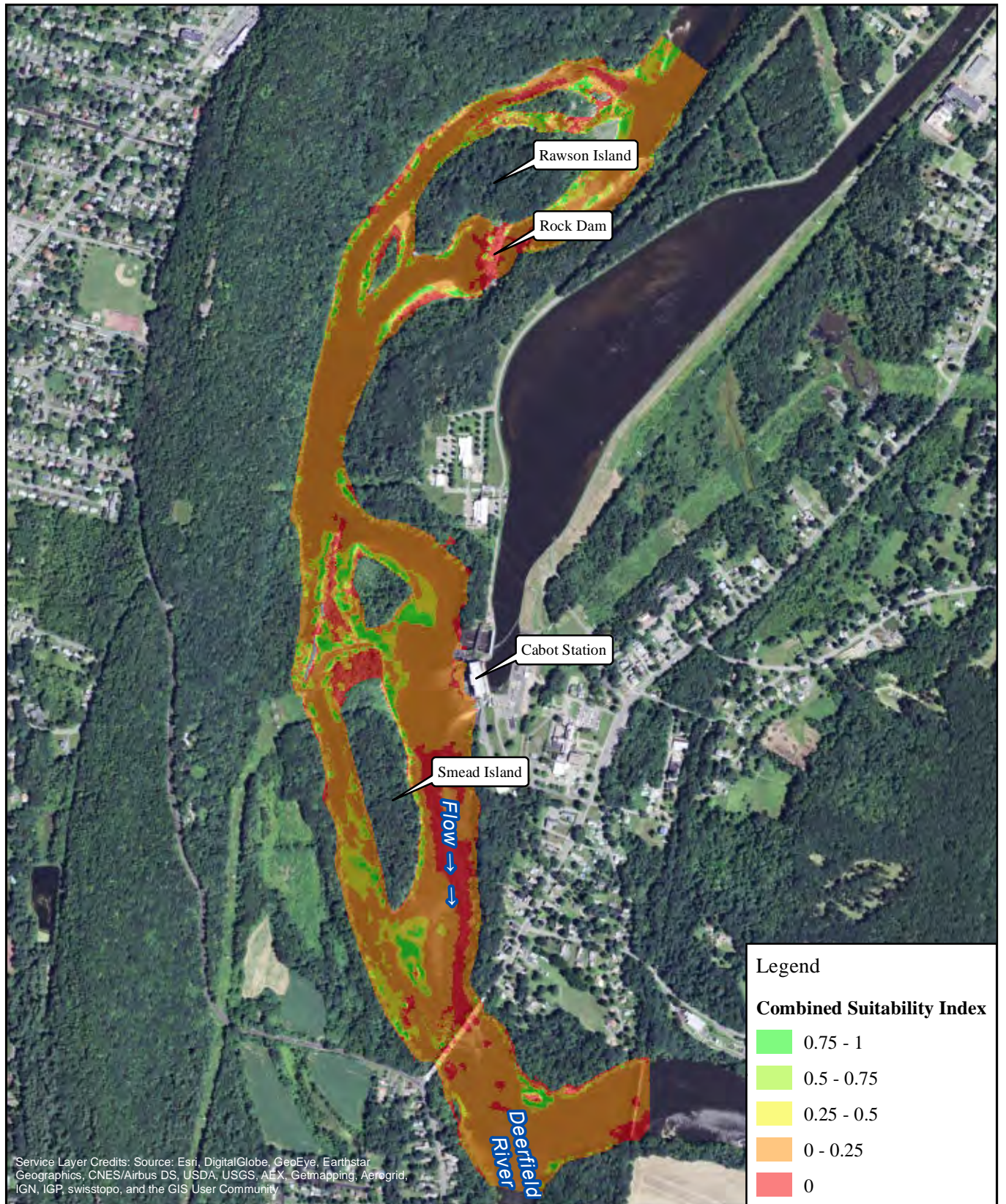
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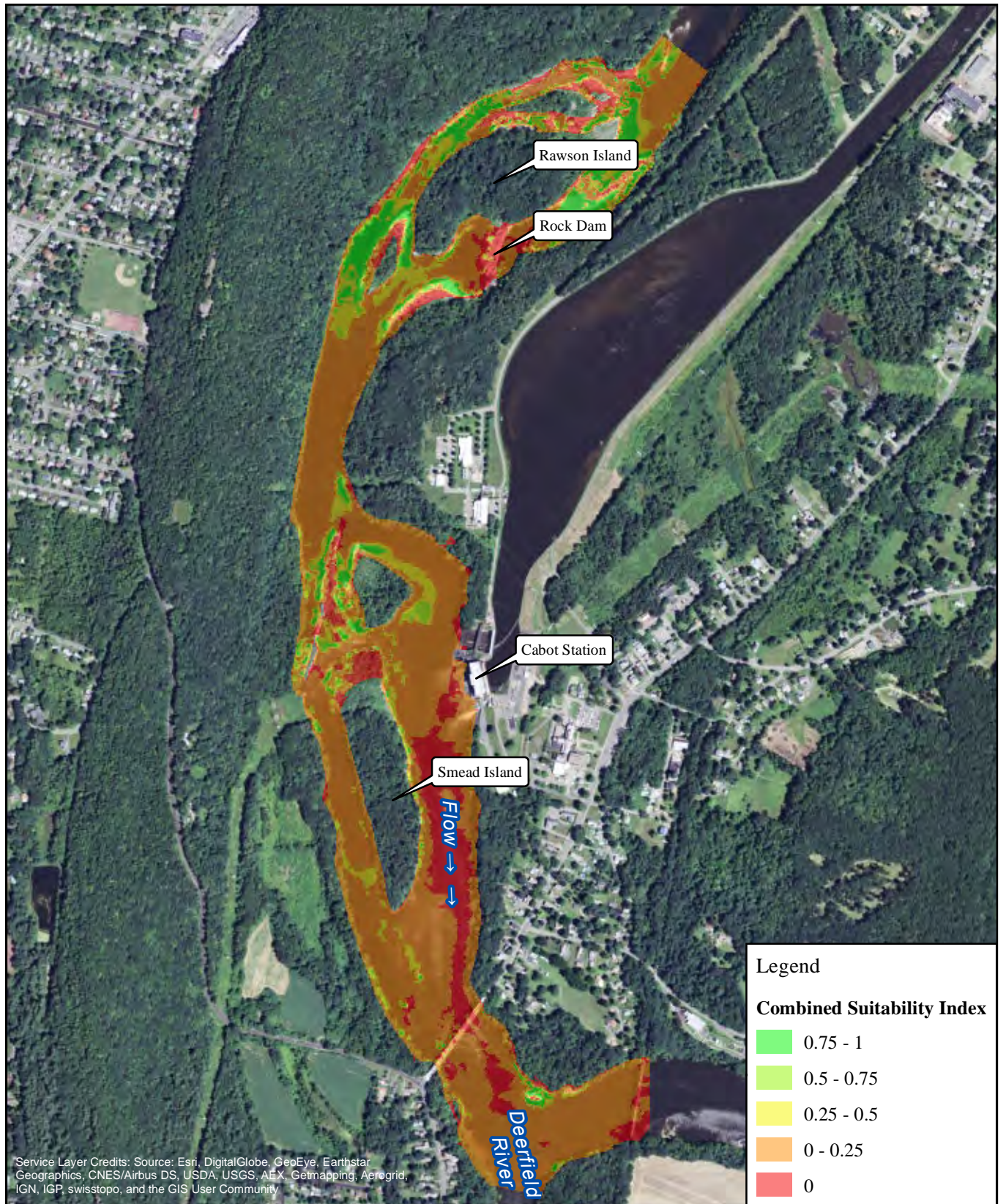
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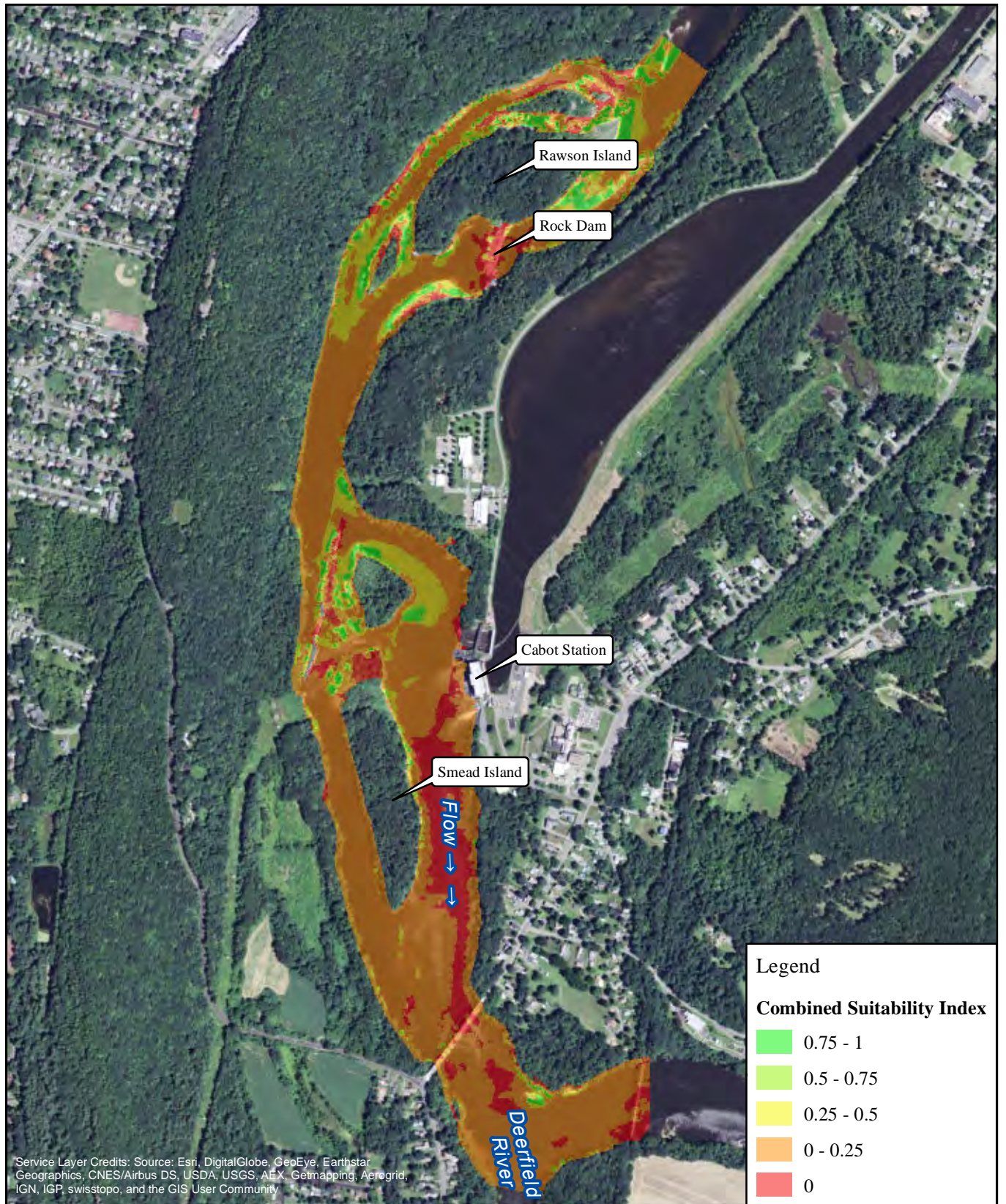
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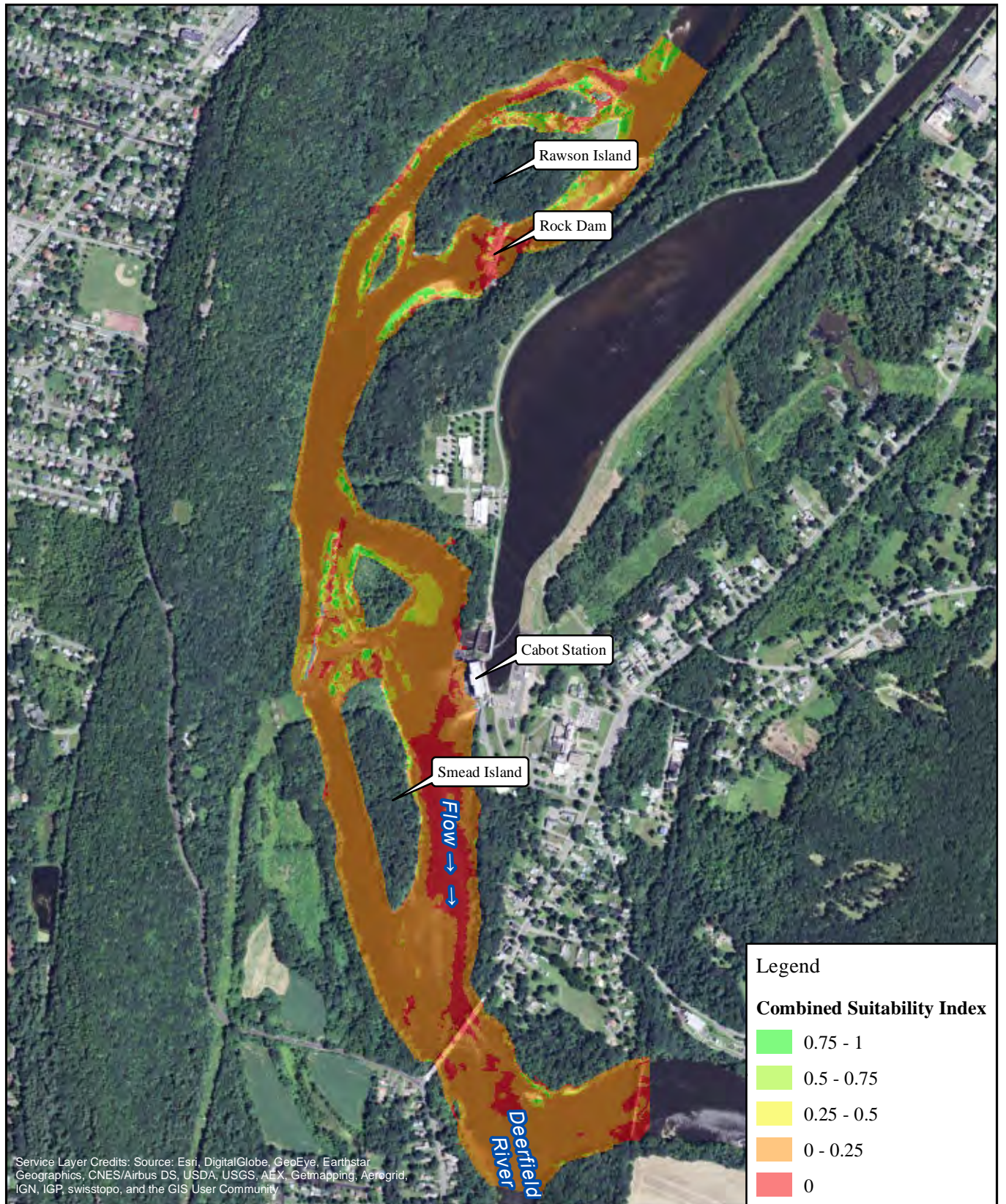
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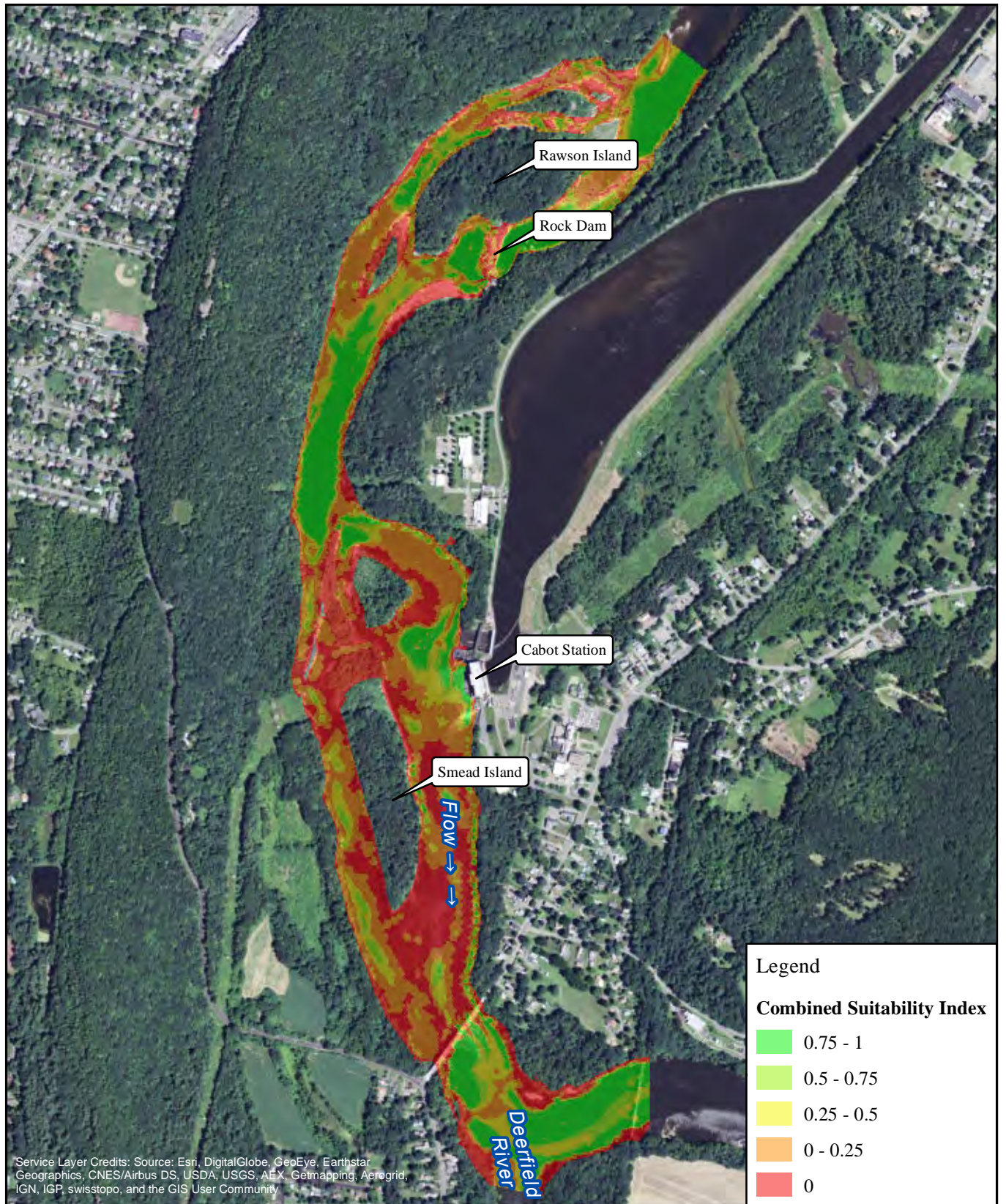
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Fallfish-Juvenile
Cabot Flow: 14000 cfs
Bypass Flow: 5000 cfs
Deerfield Flow: 200 cfs

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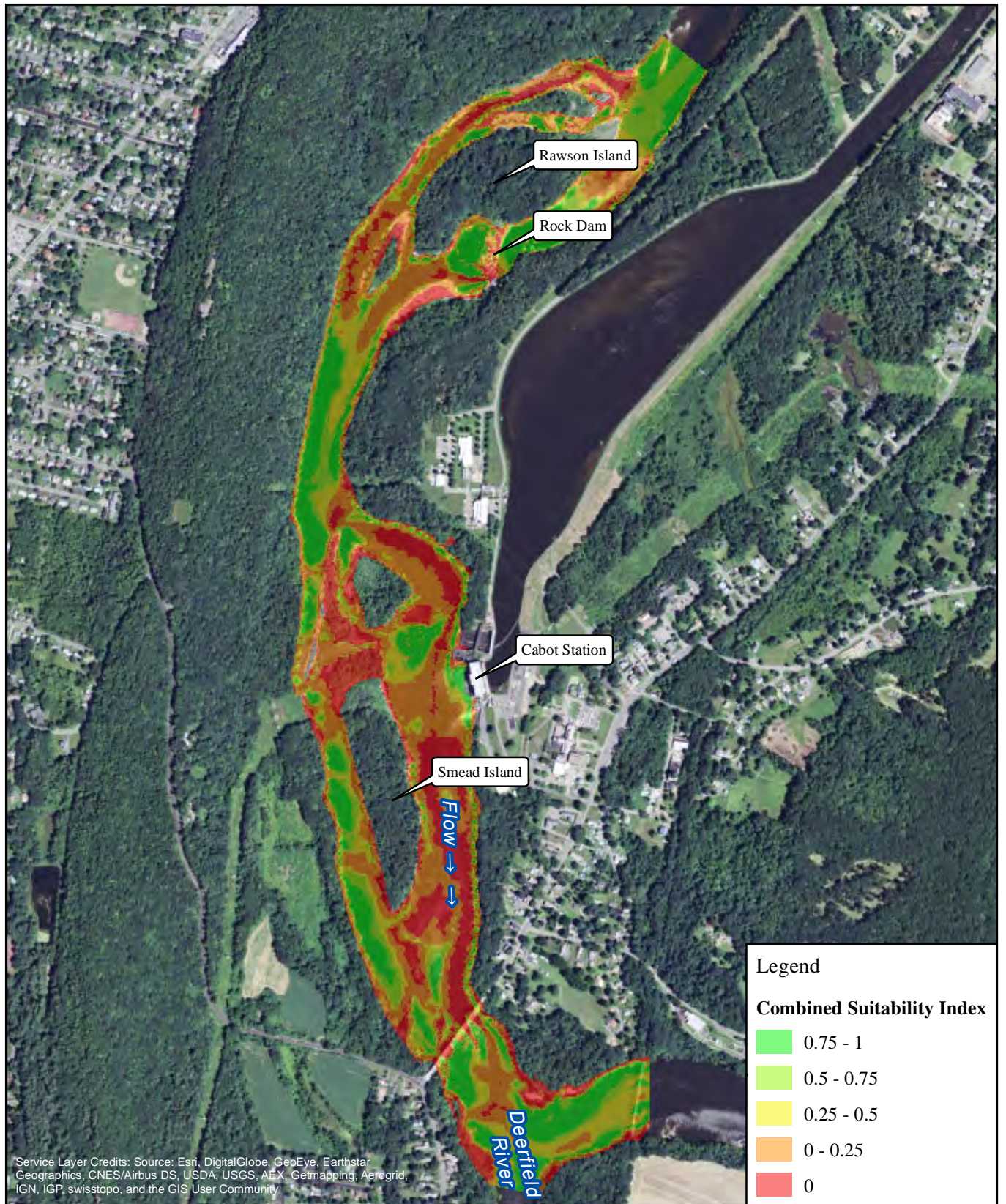
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Feet

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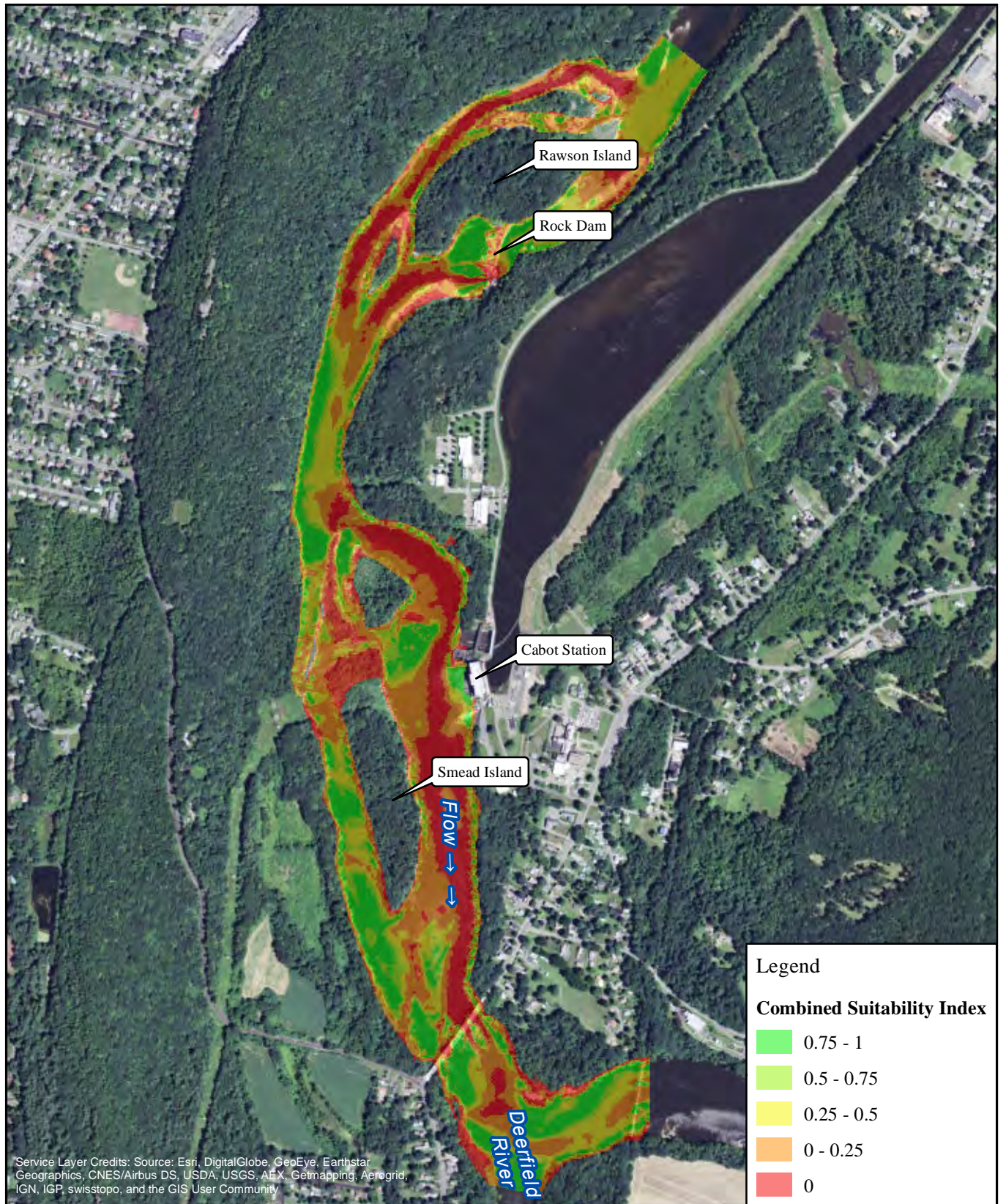
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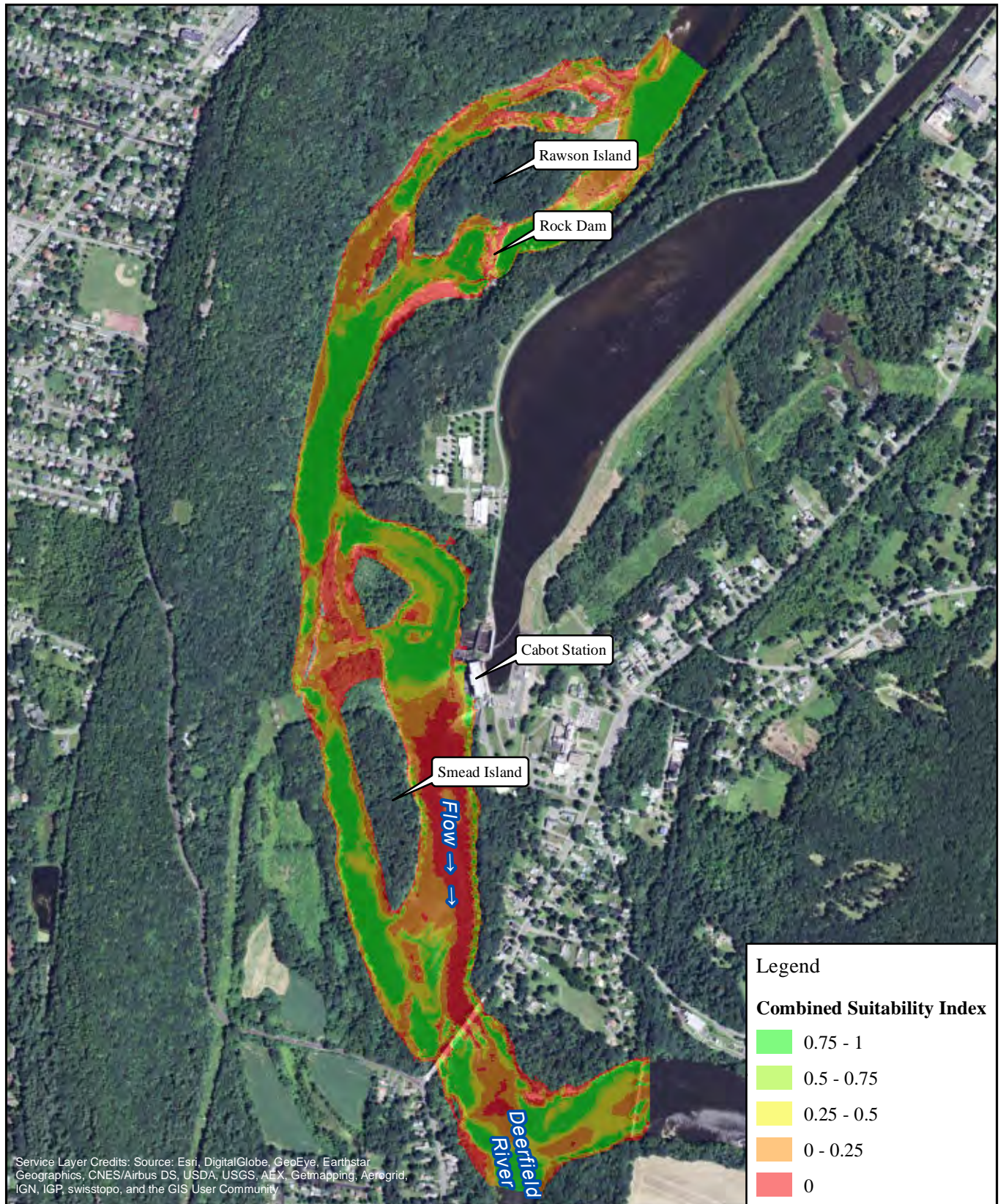
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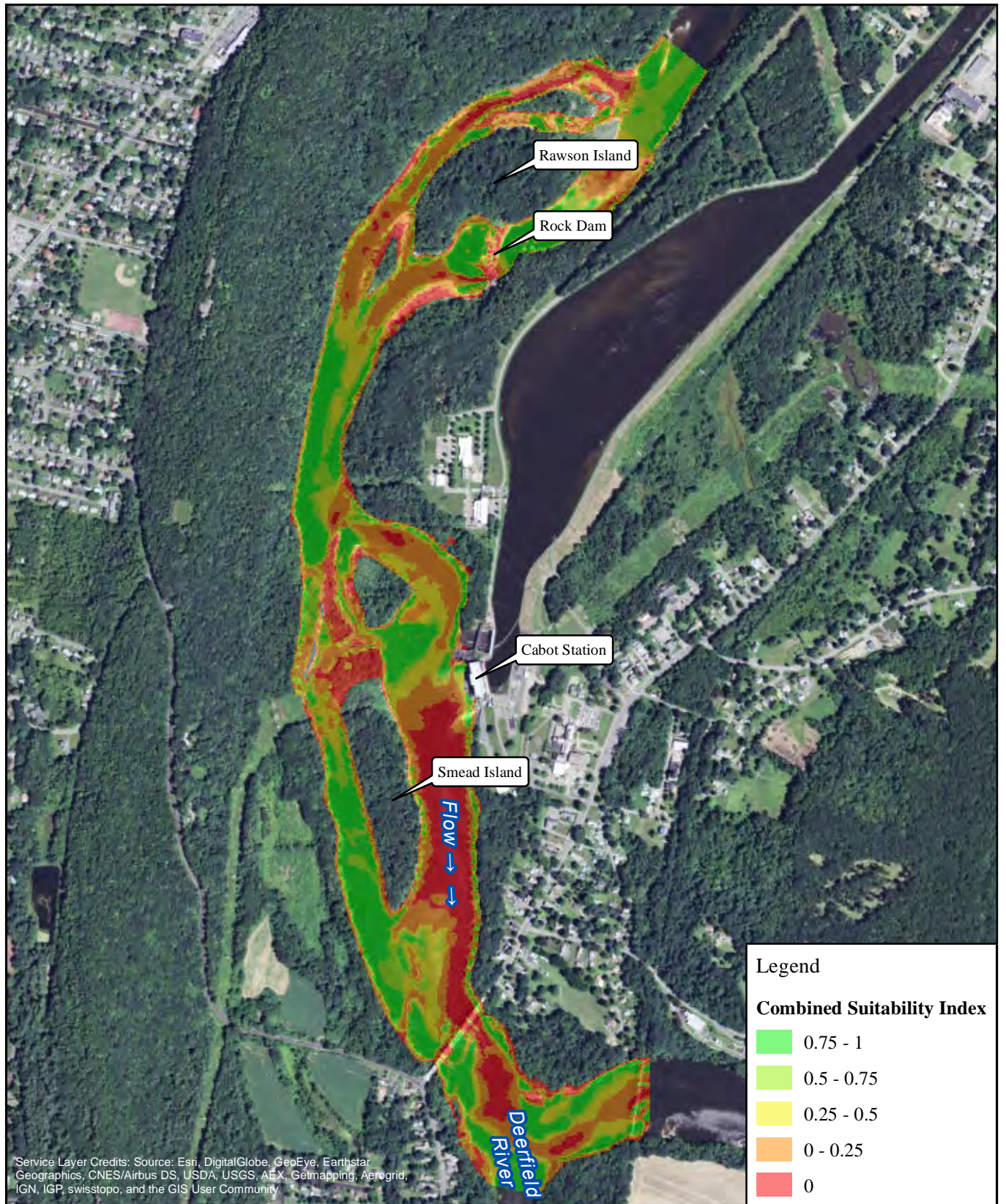
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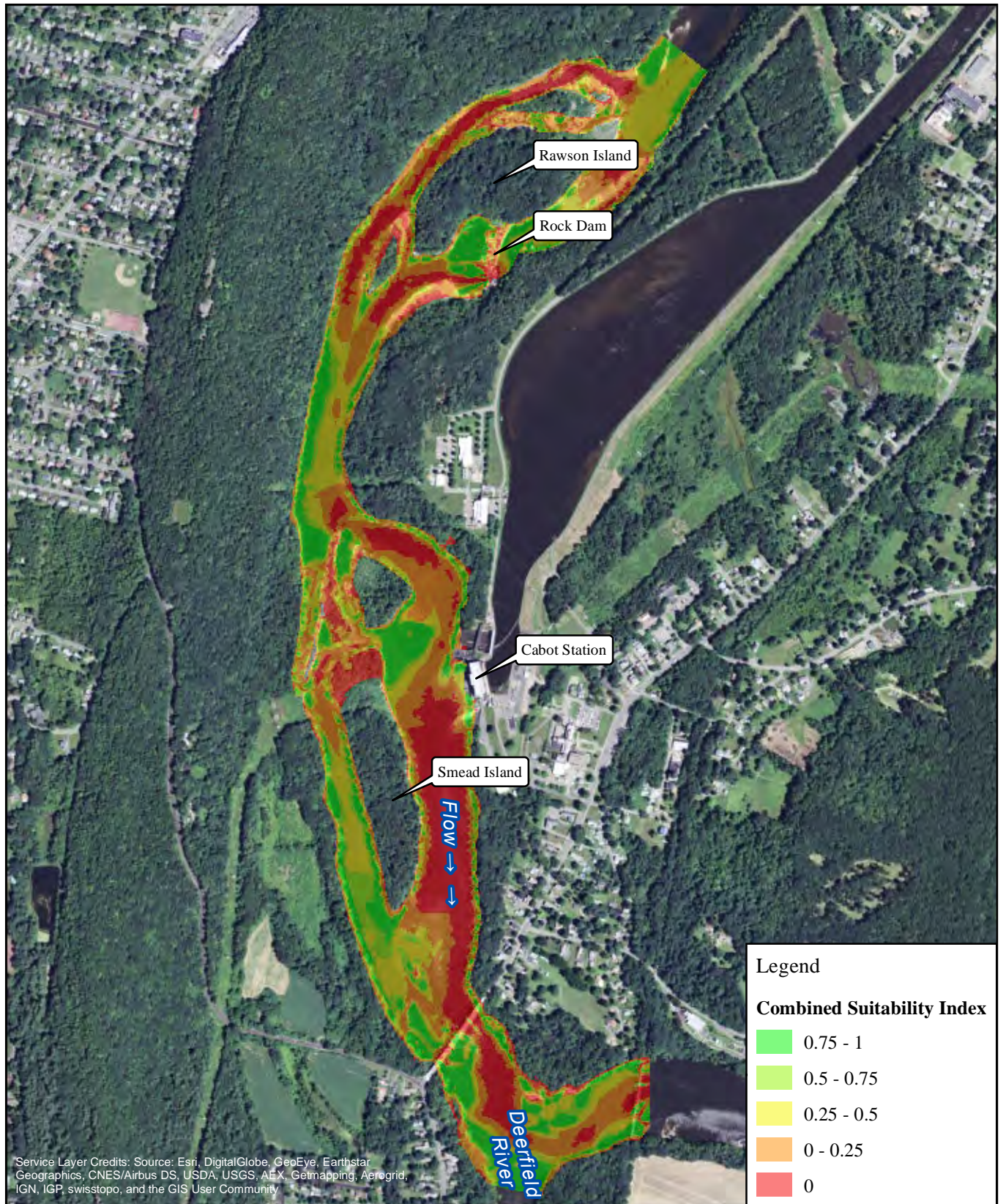
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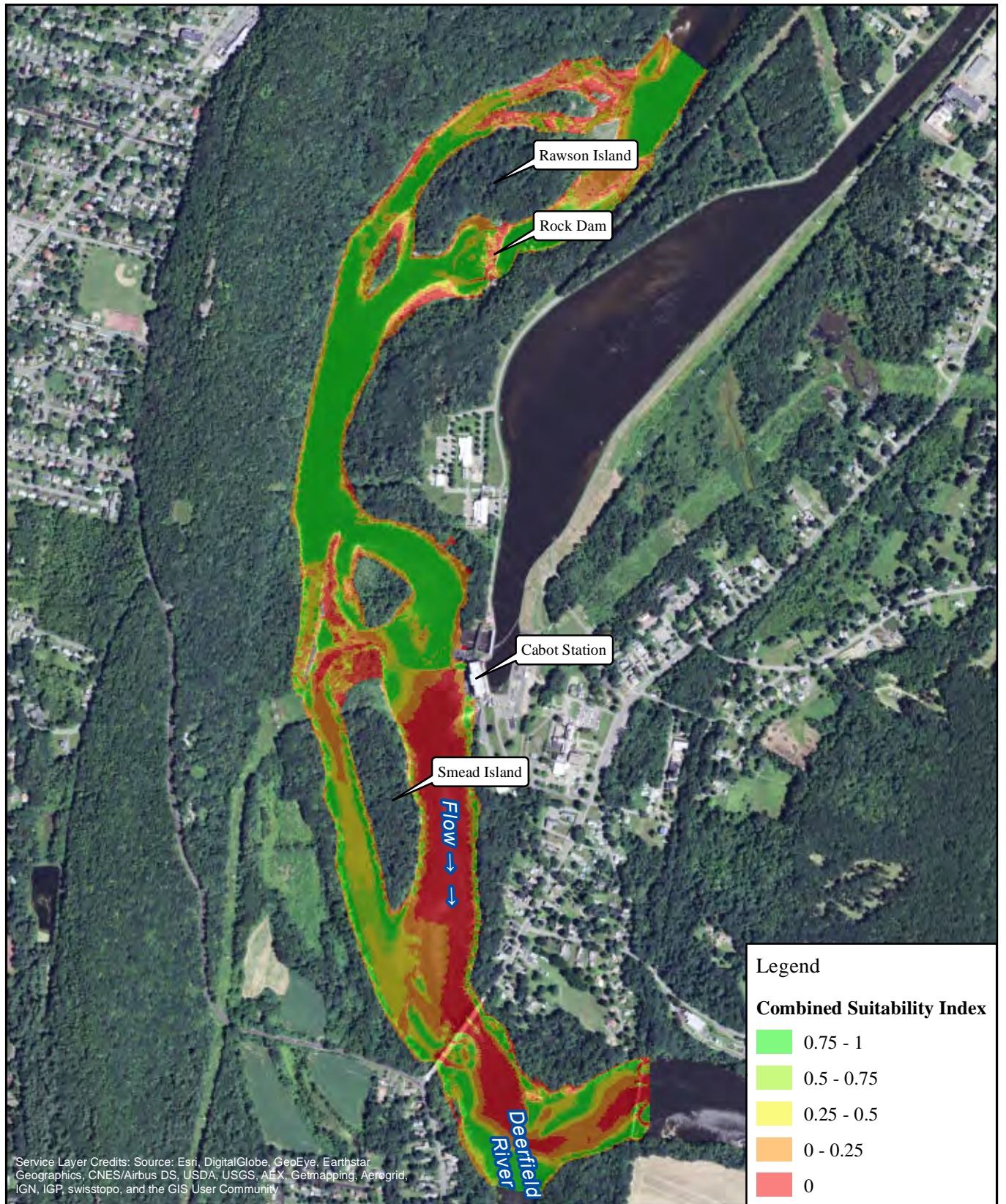
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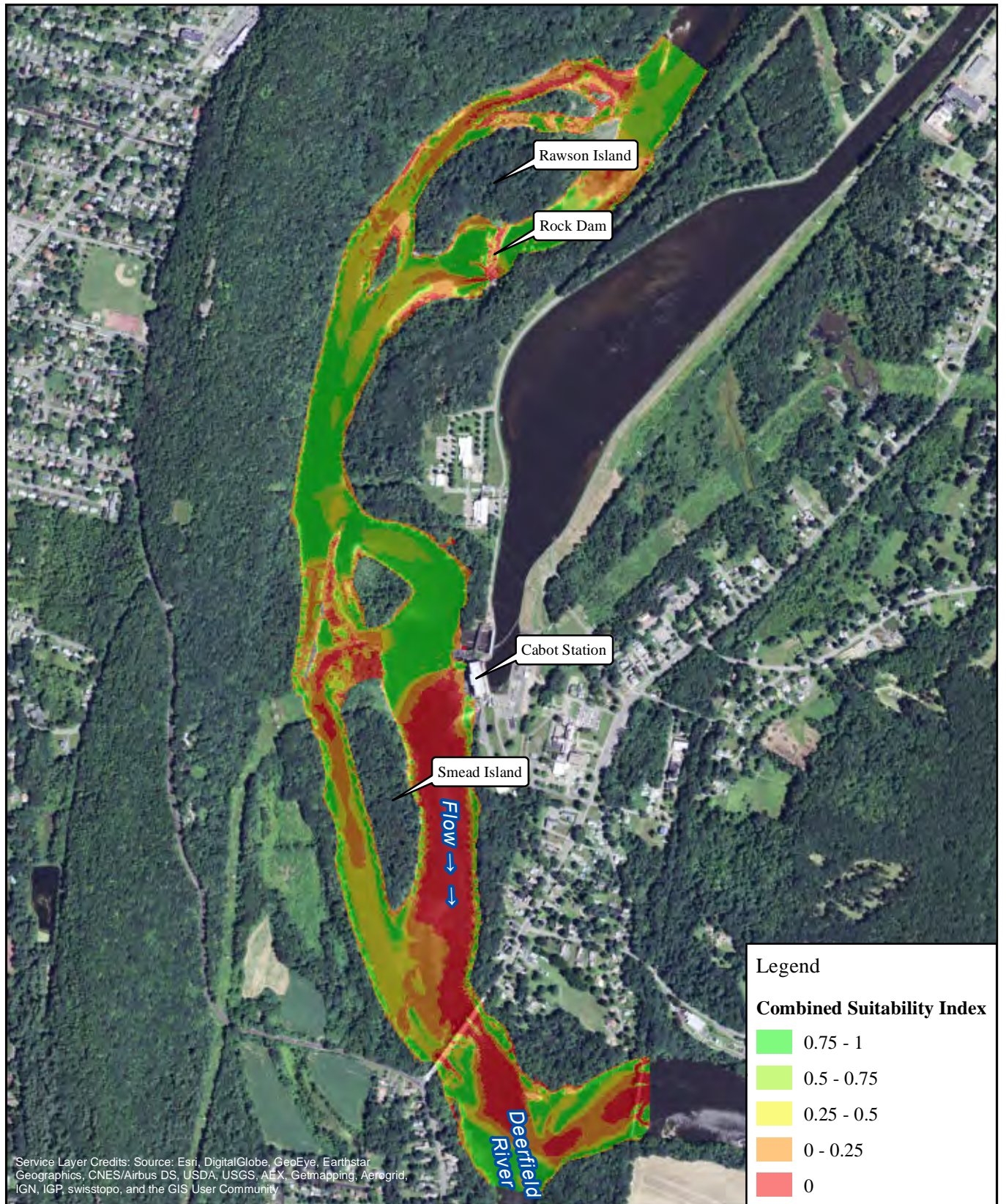
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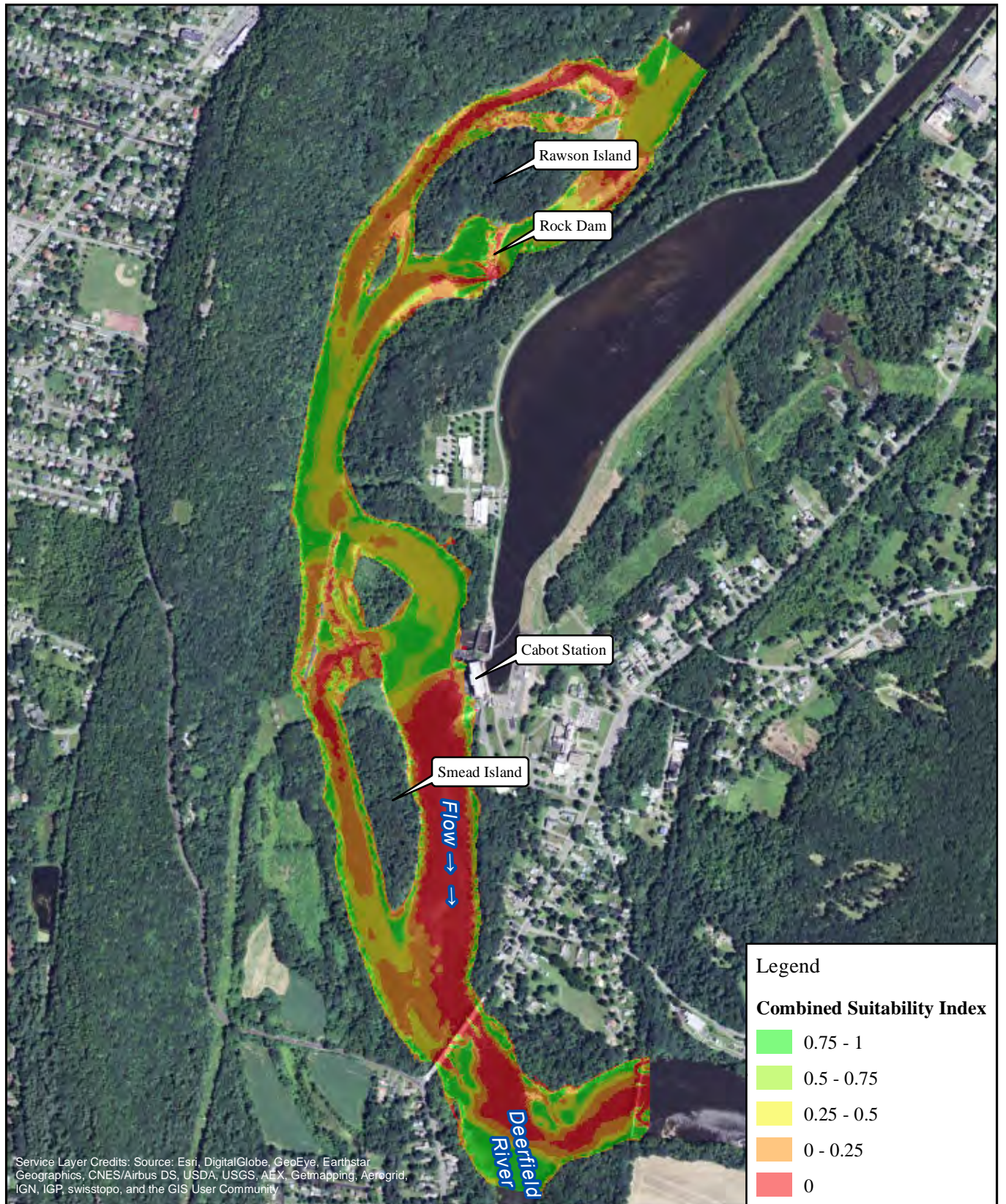
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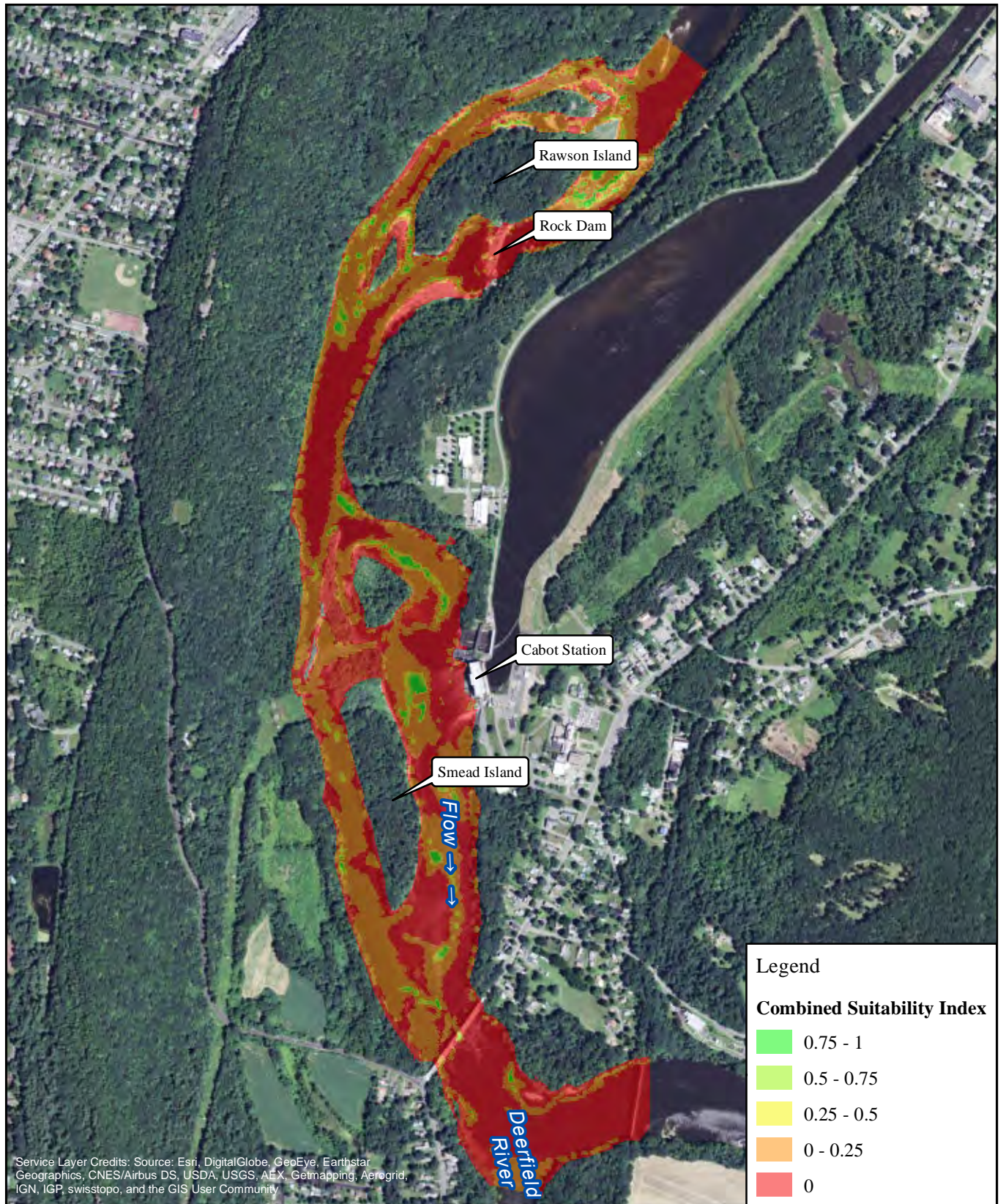
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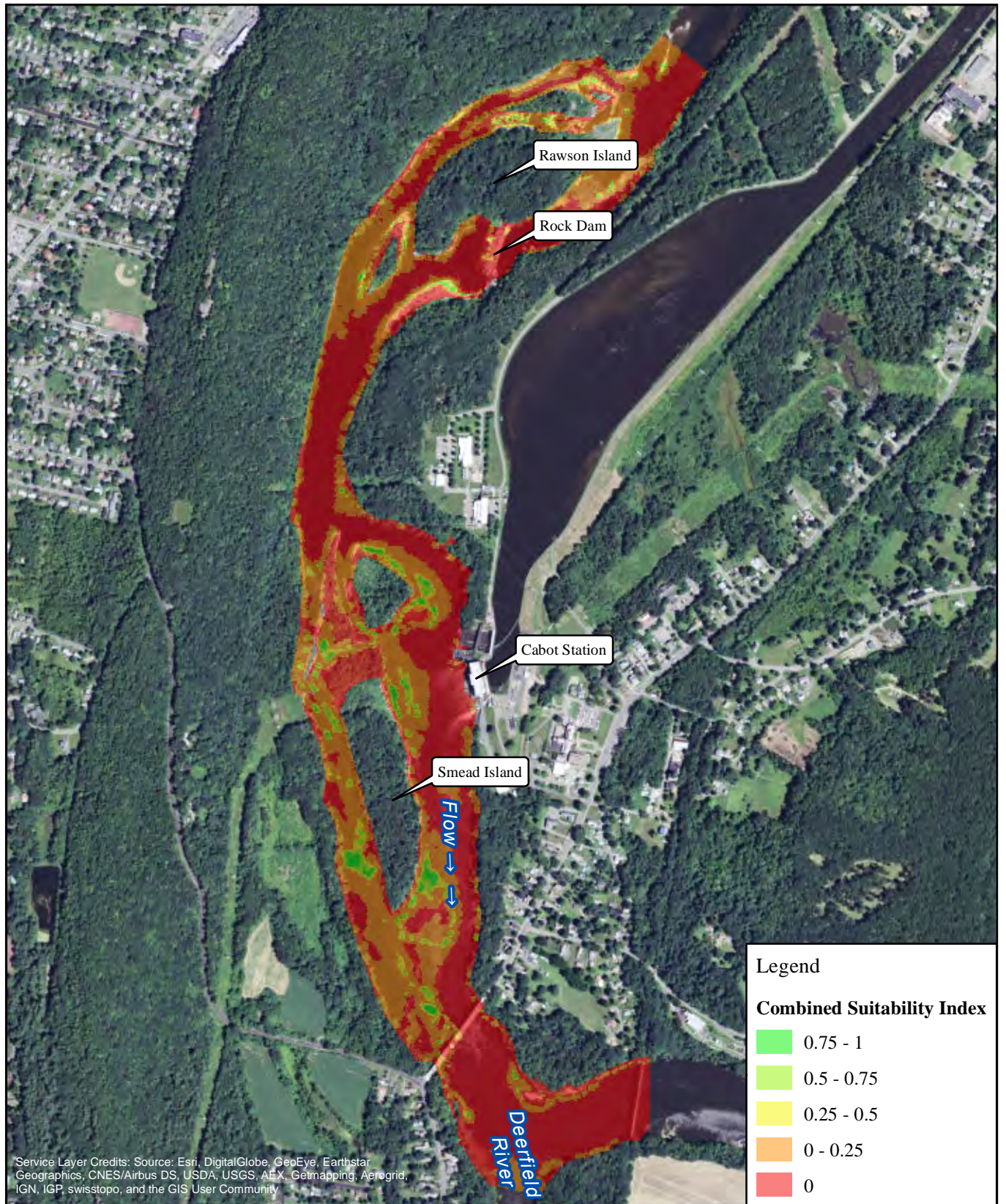
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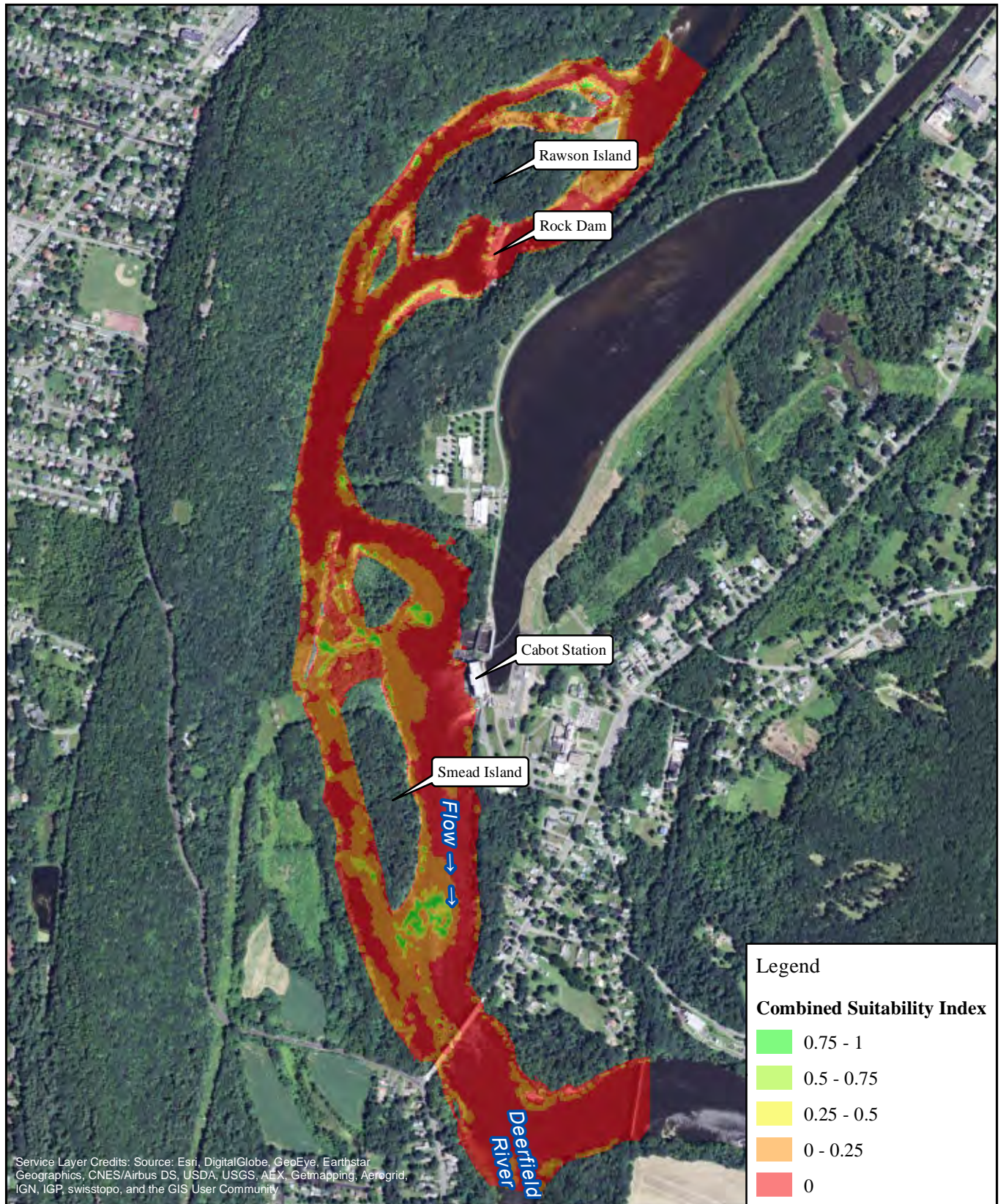
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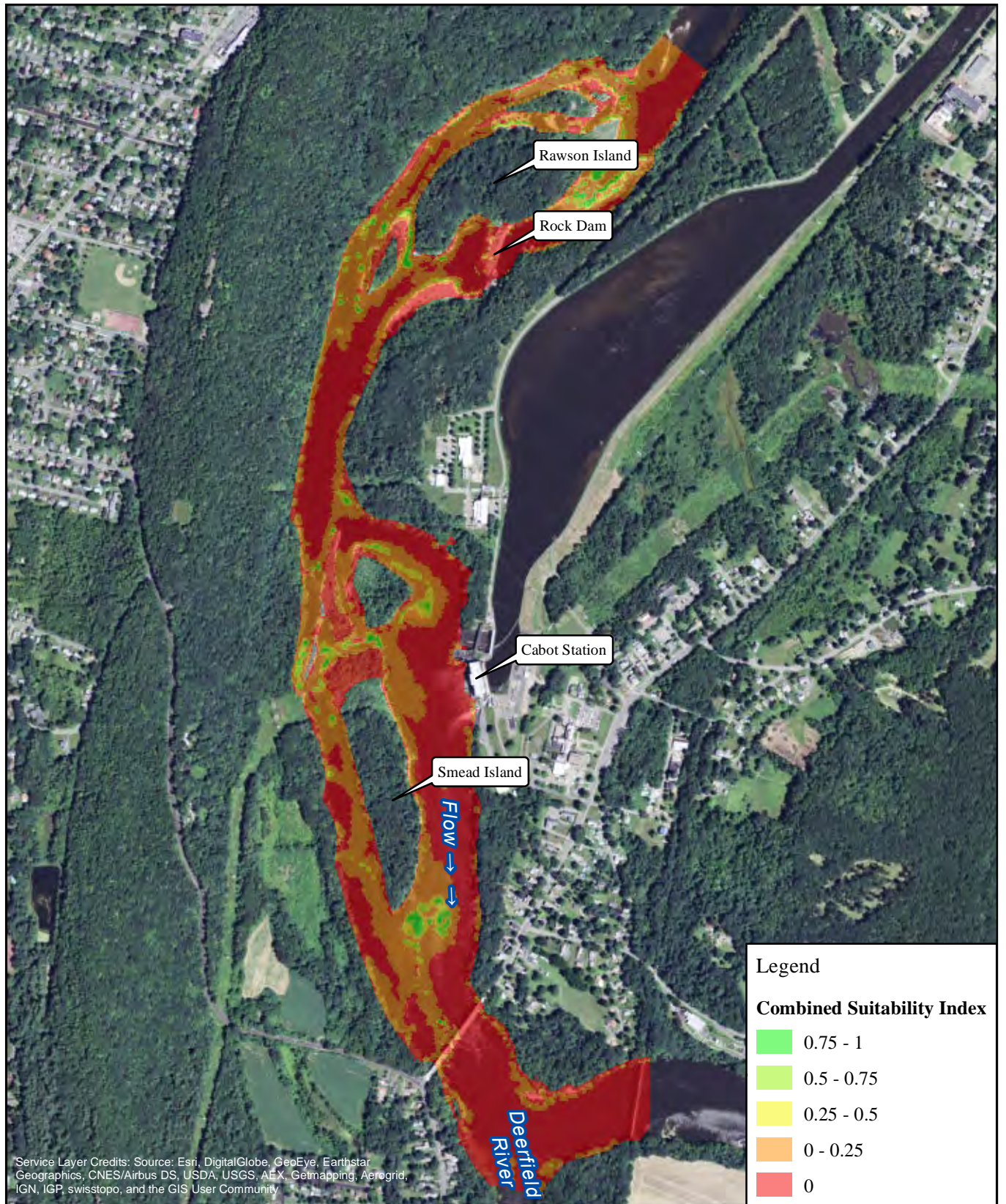
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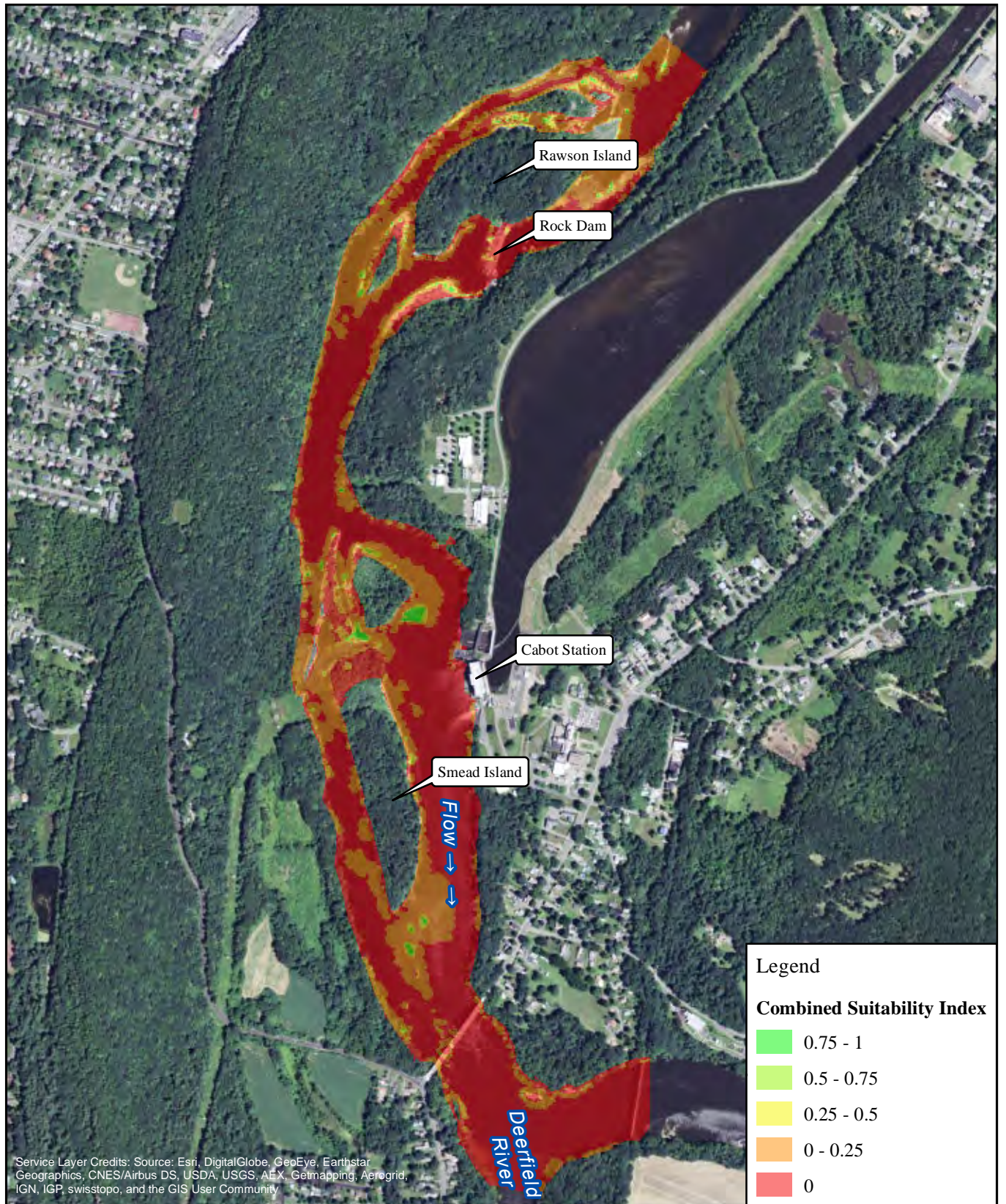
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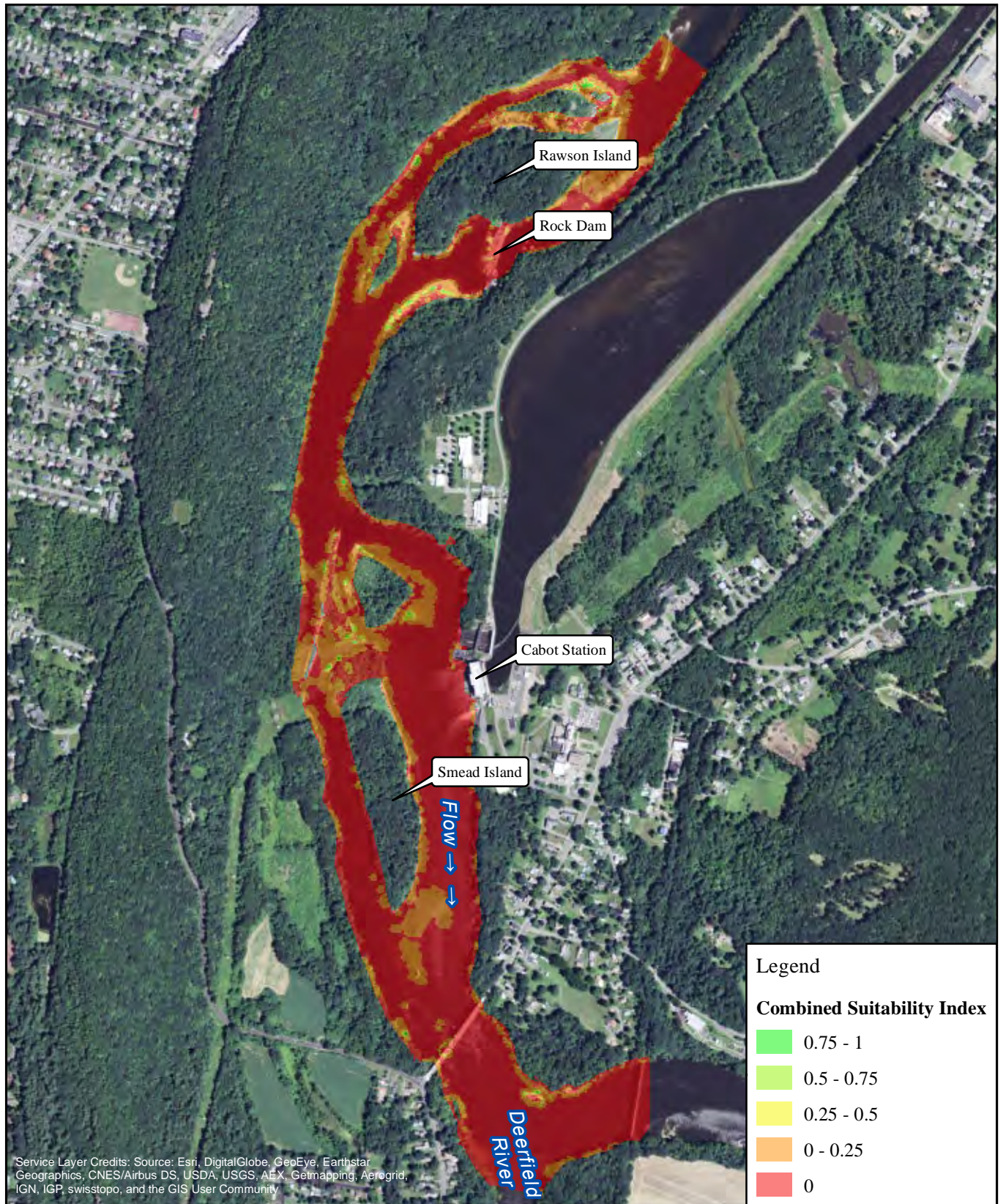
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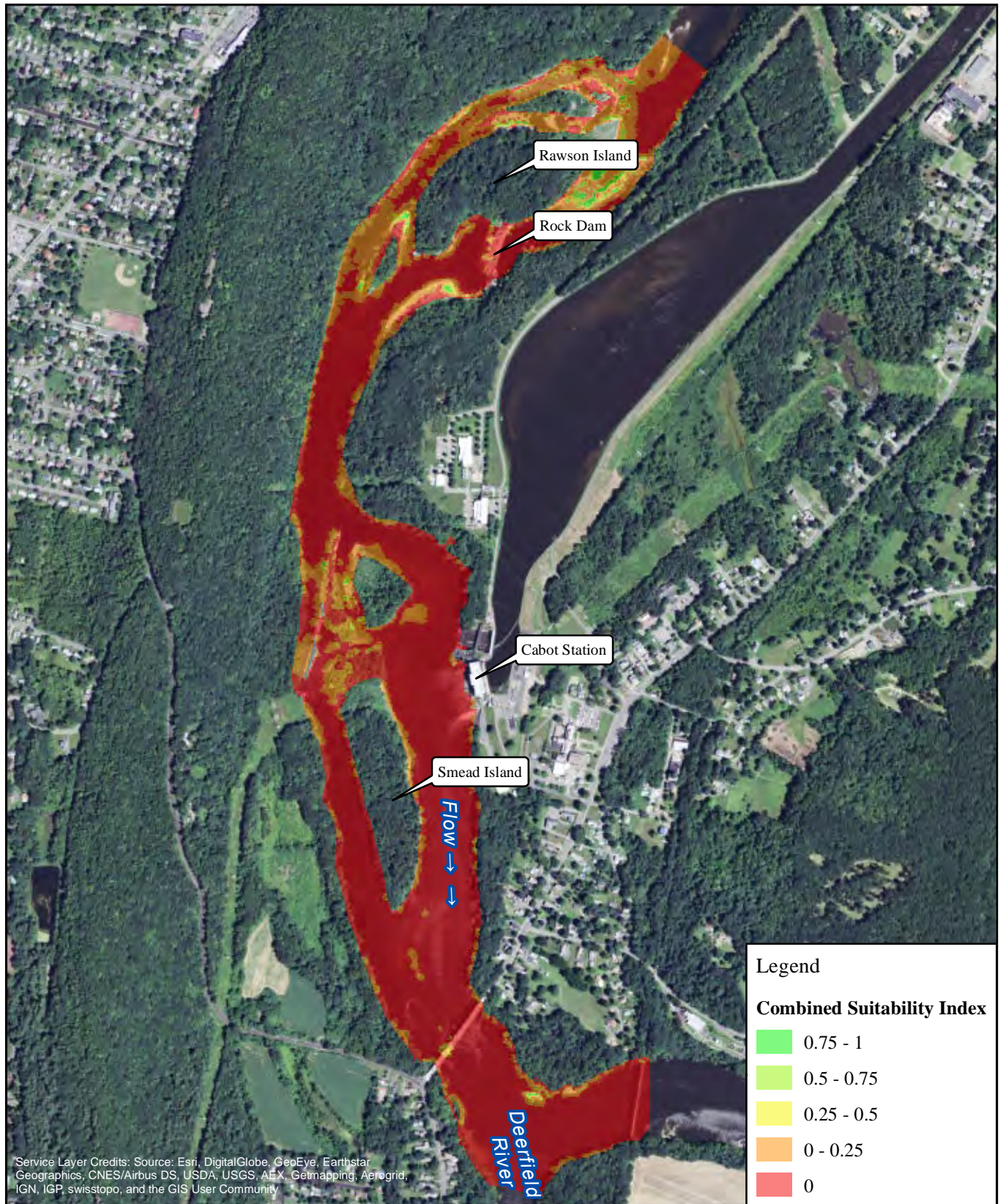
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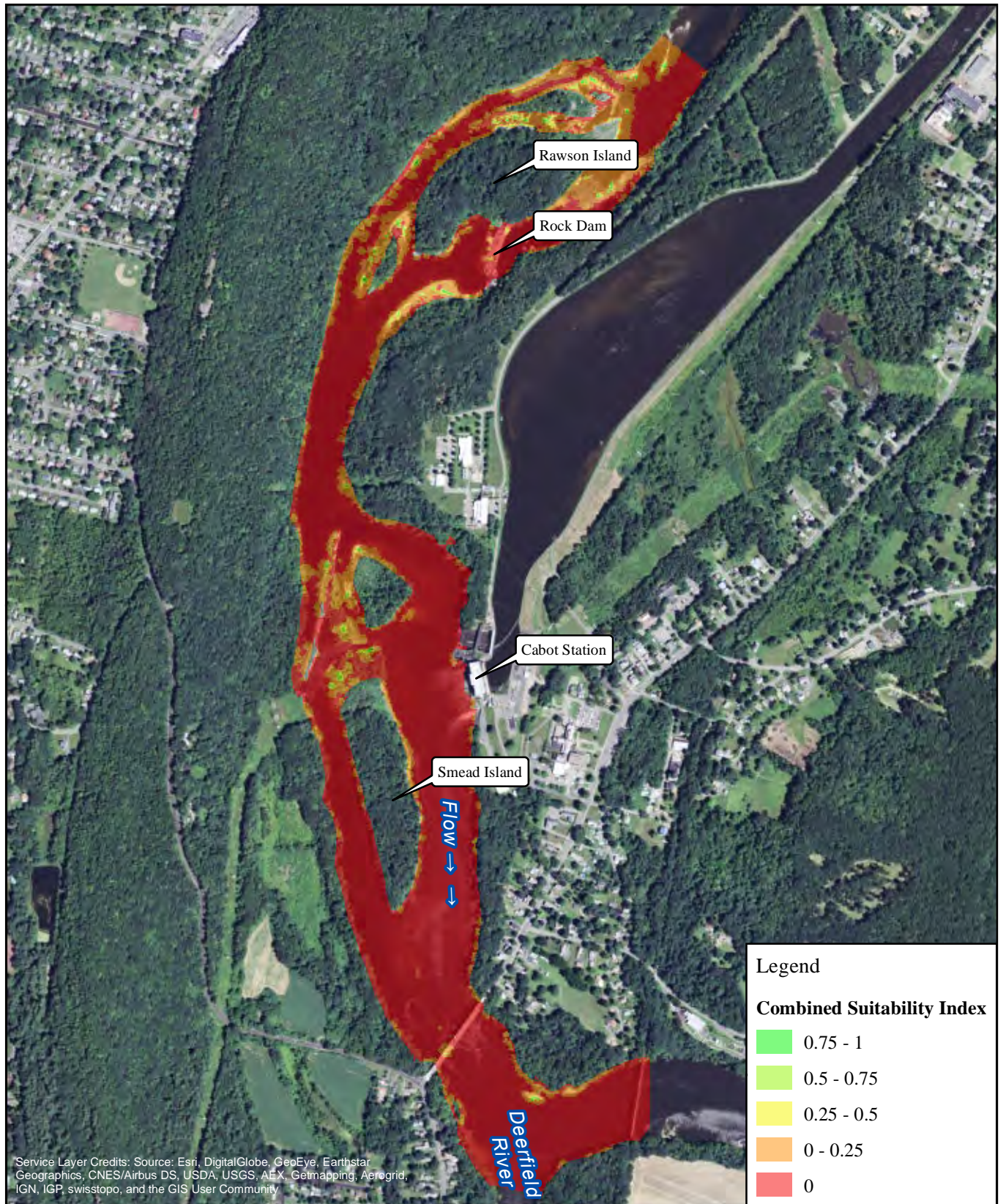
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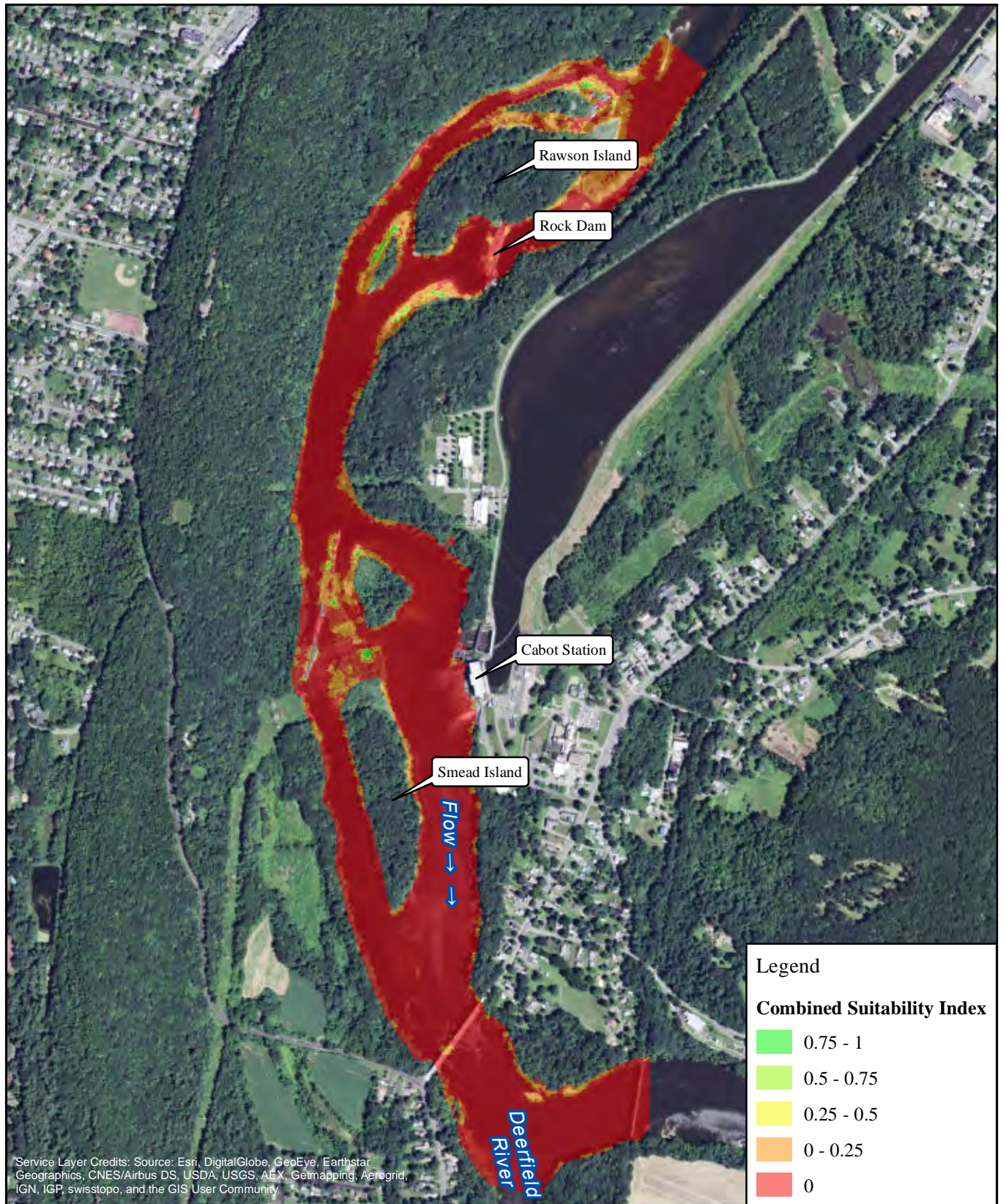
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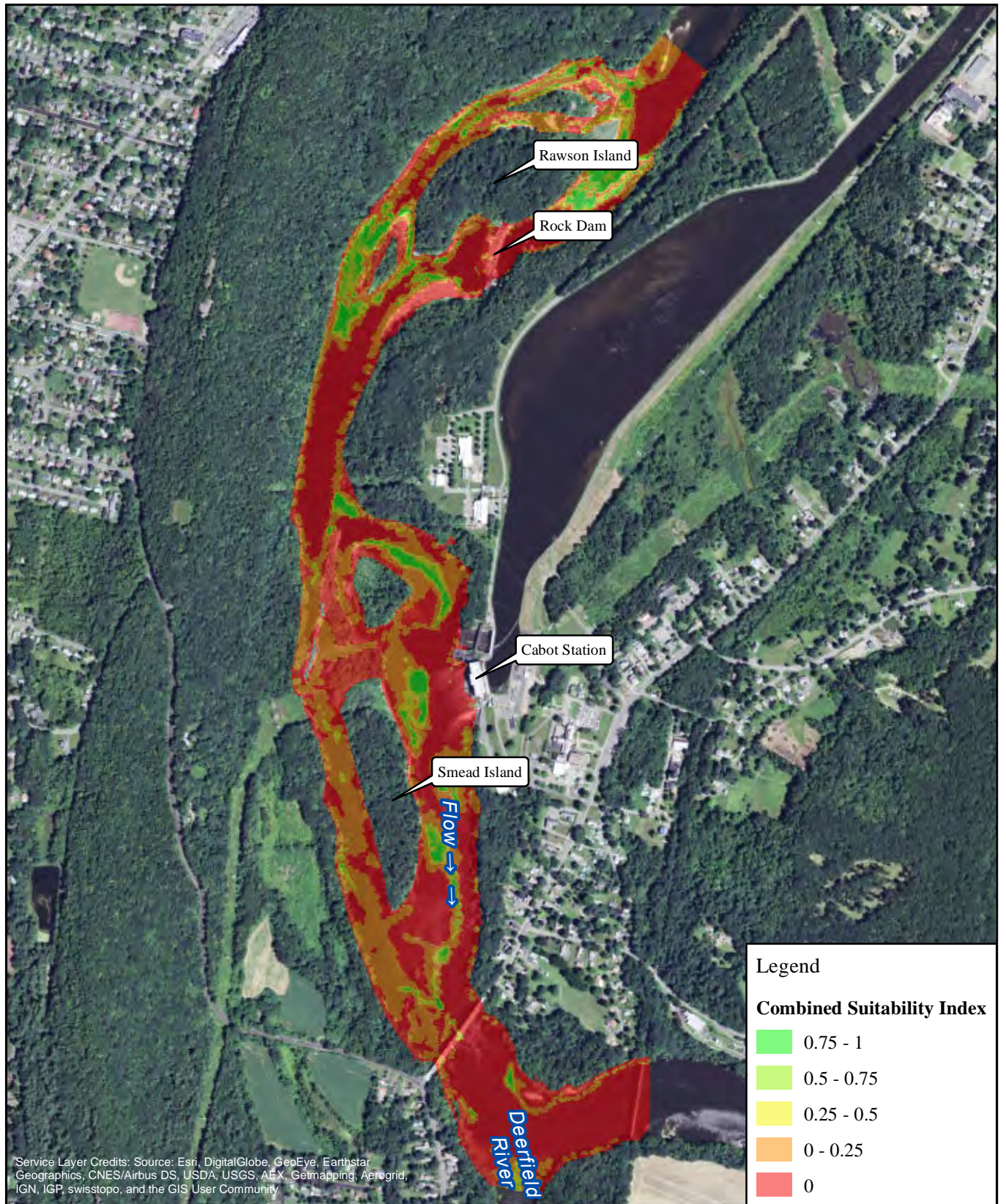
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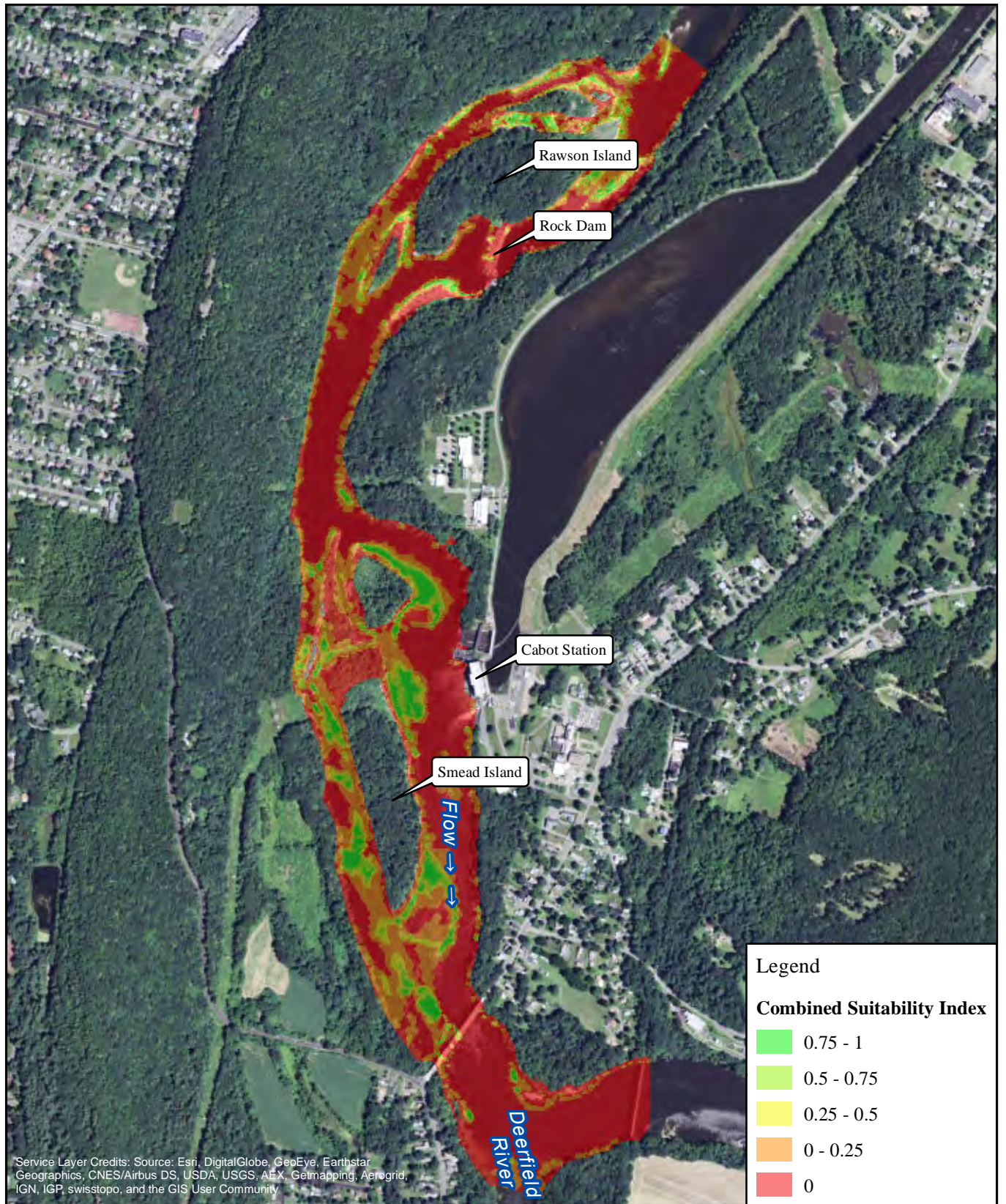
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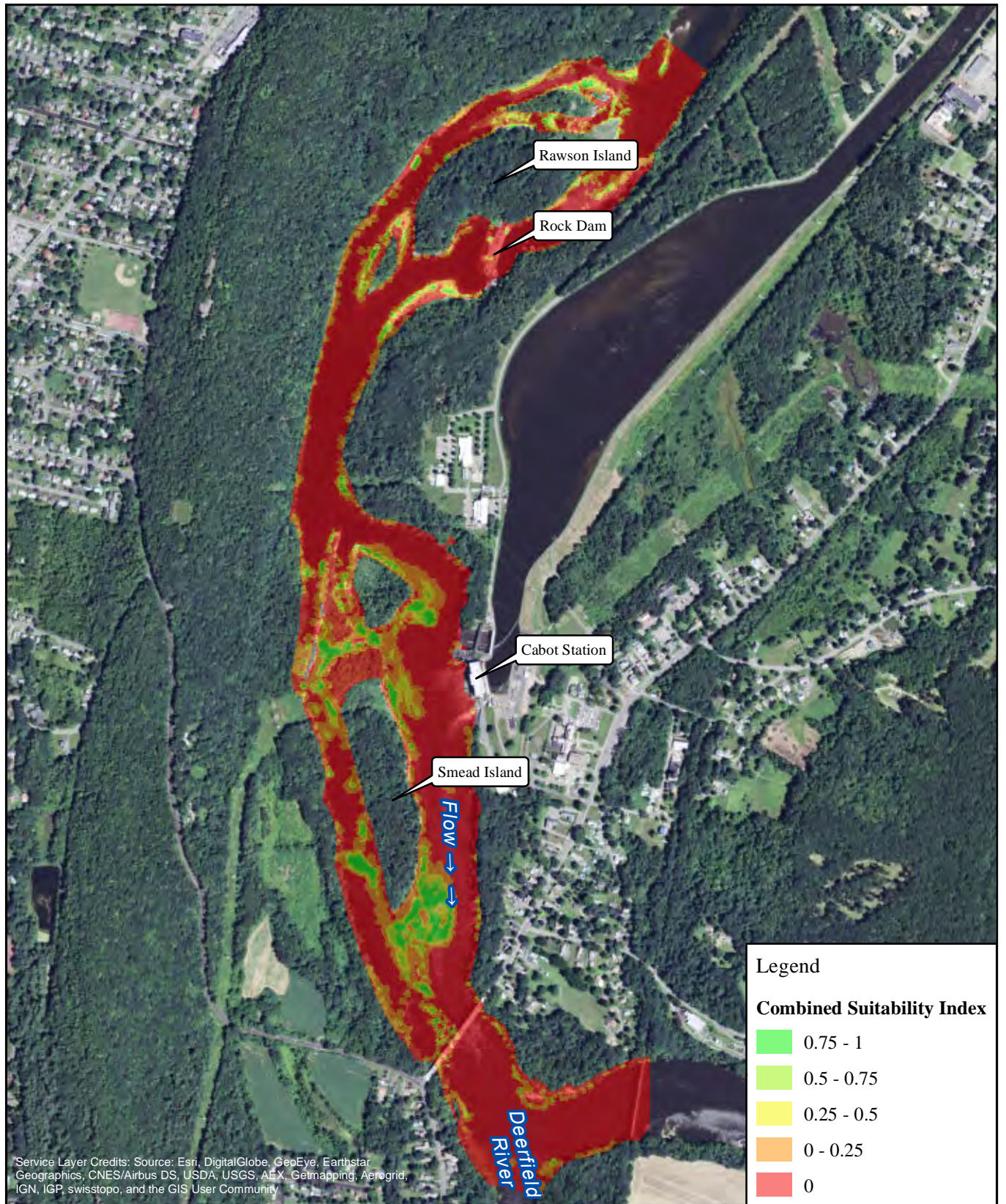
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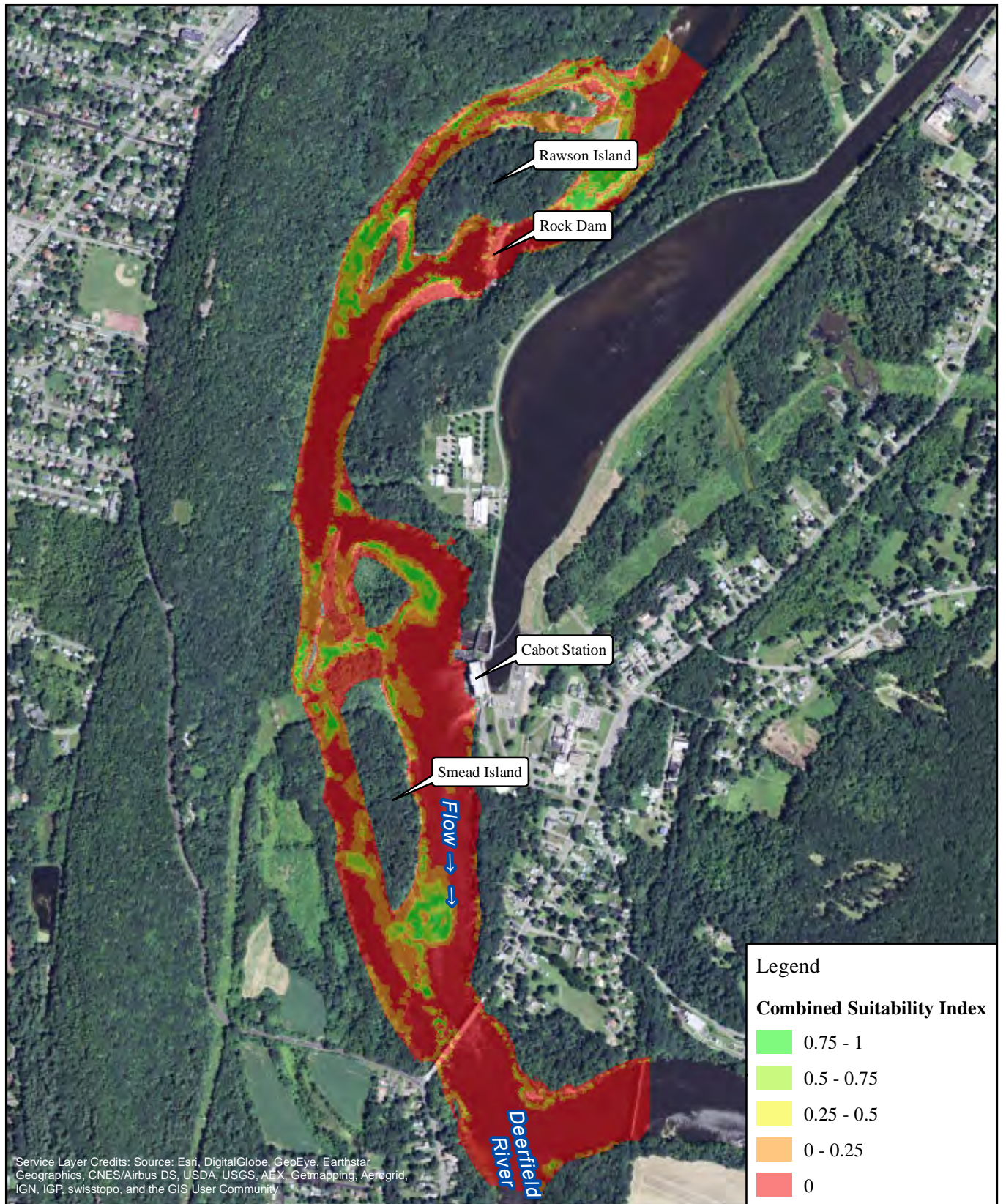
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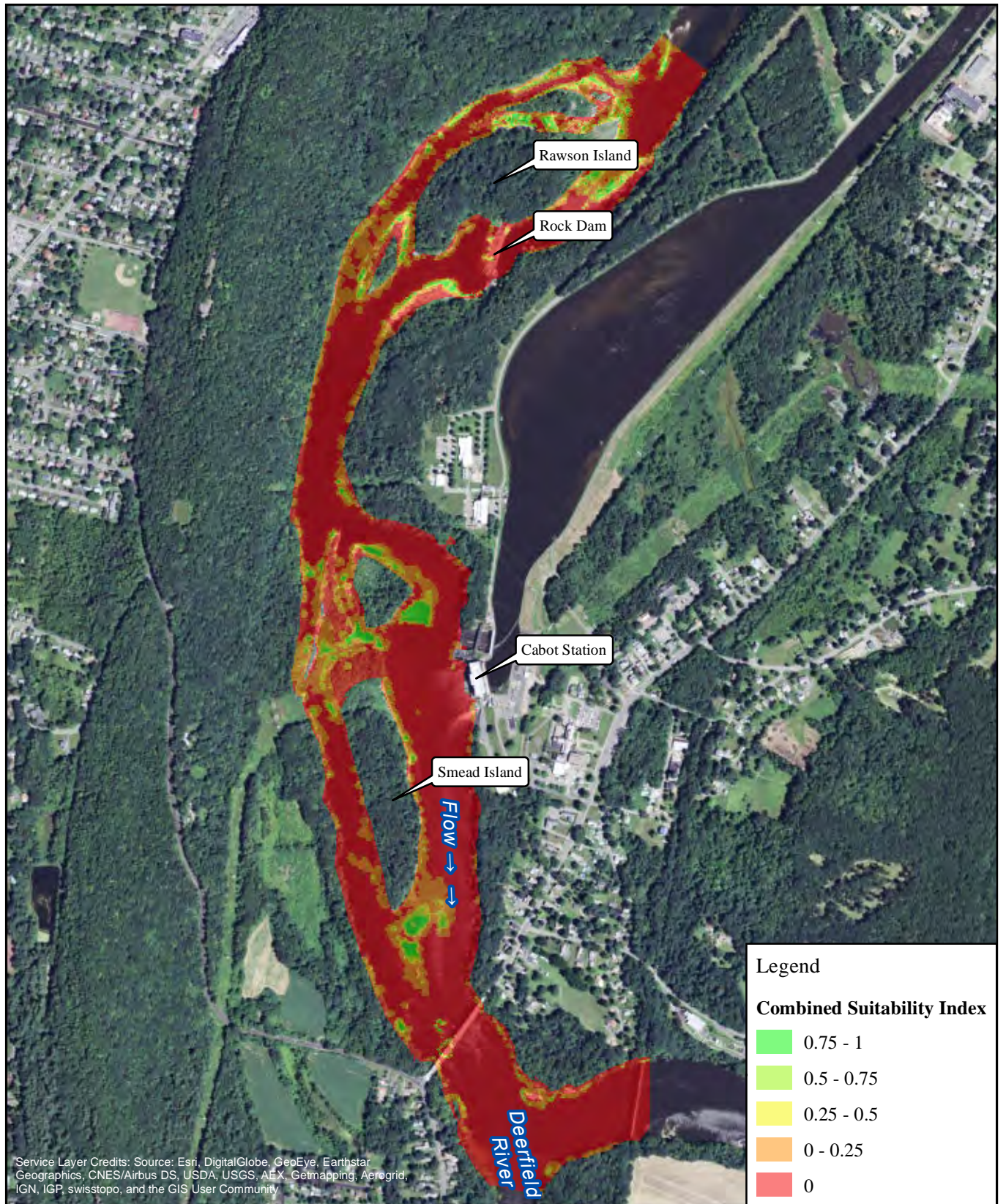
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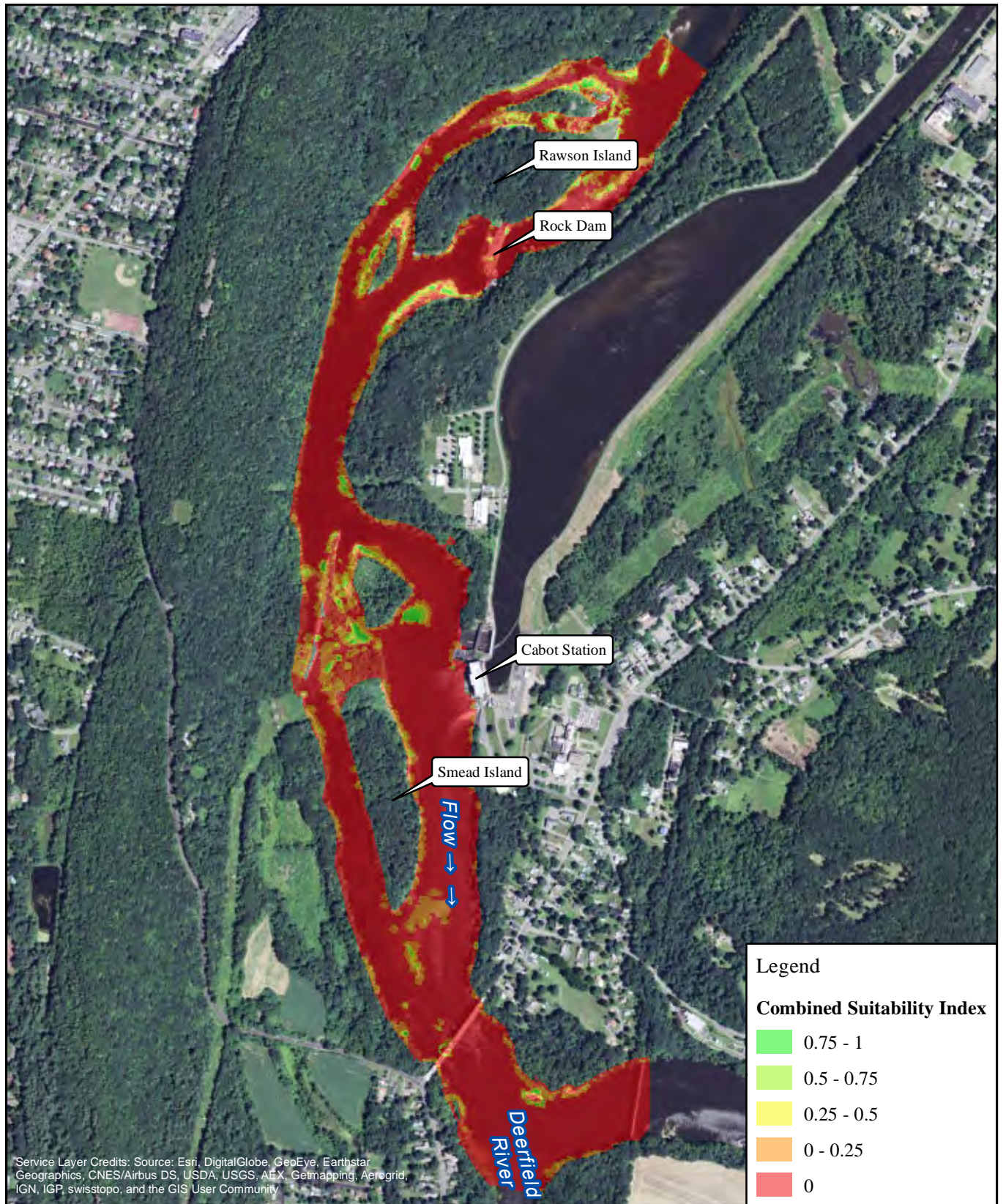
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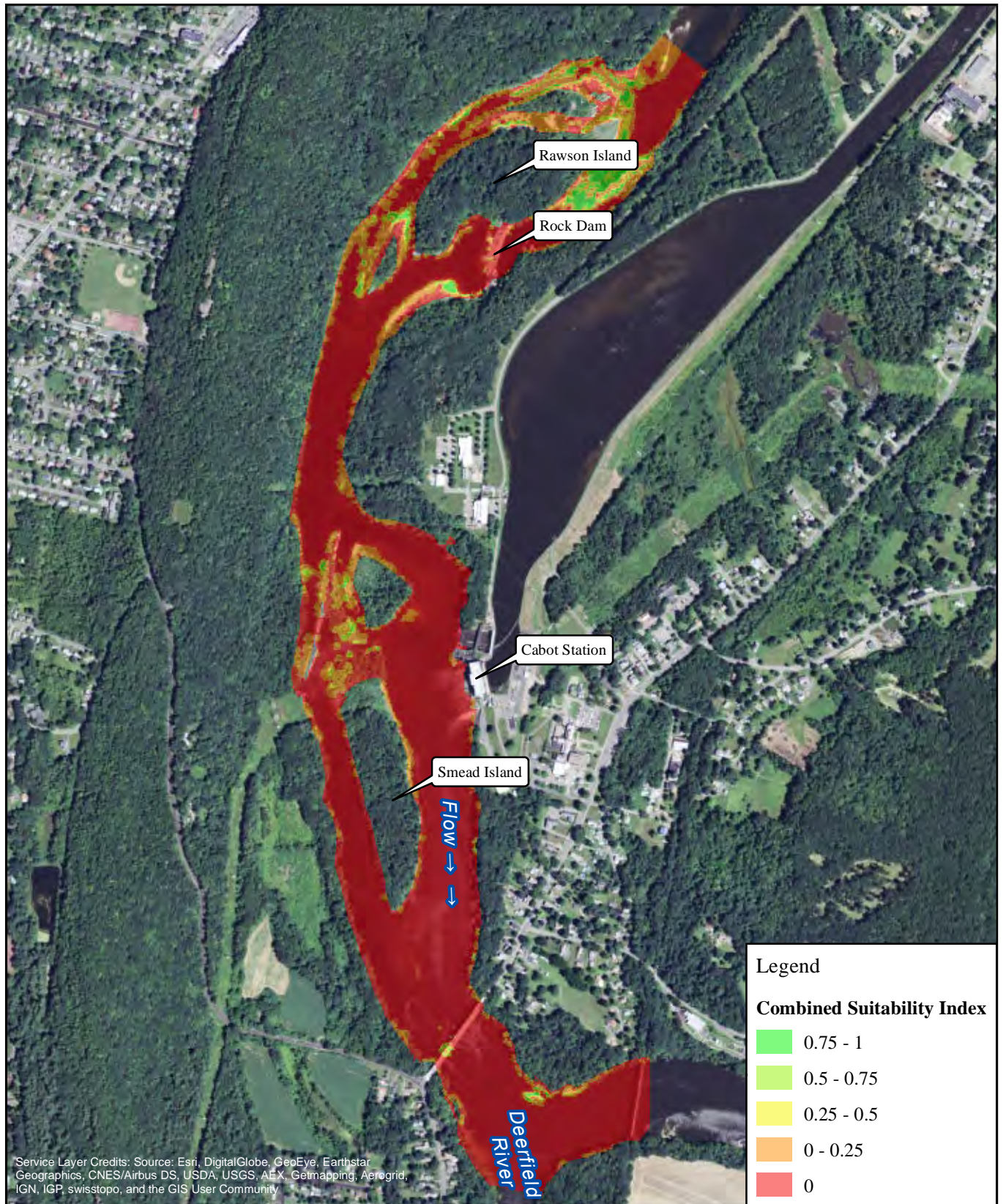
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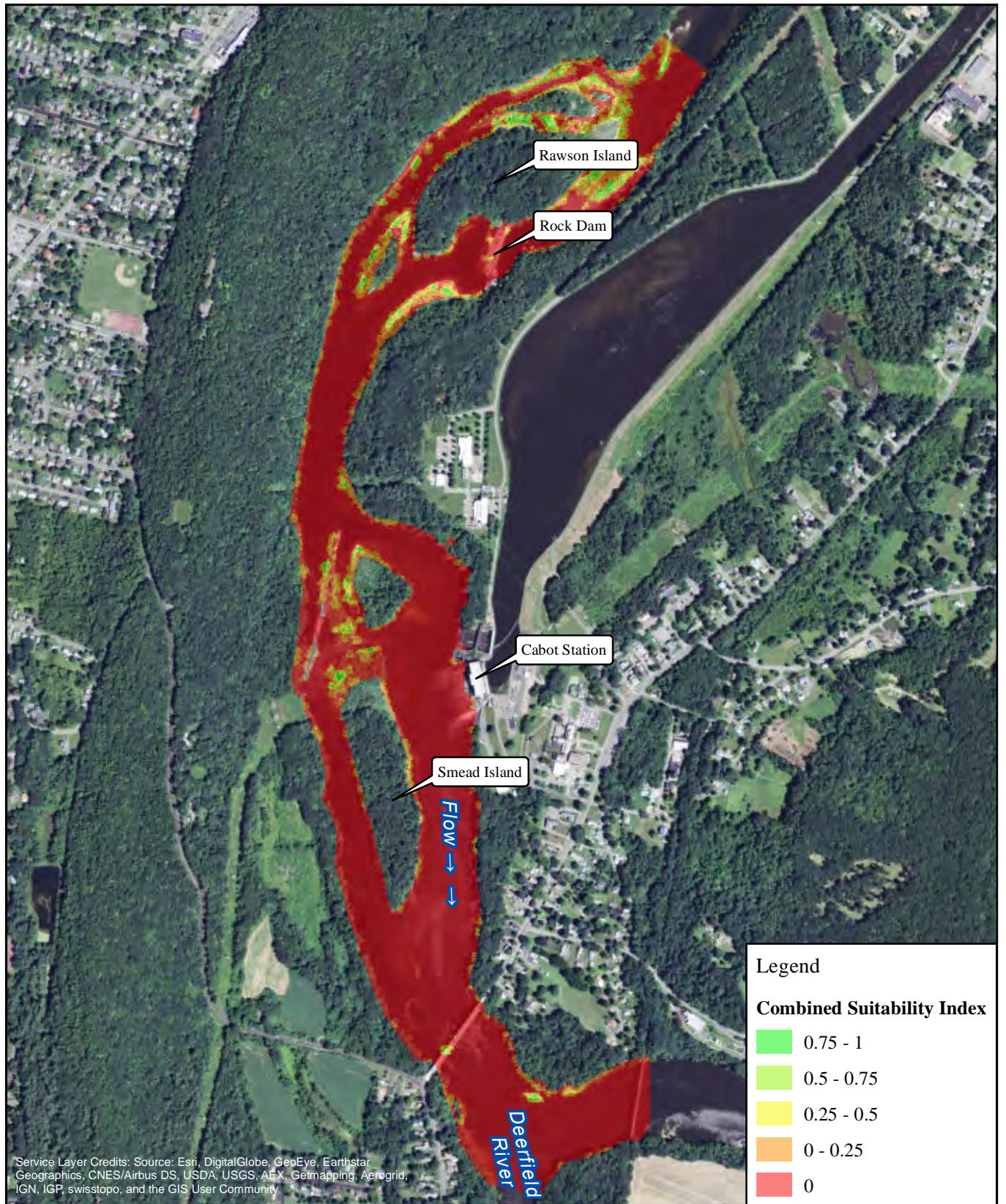
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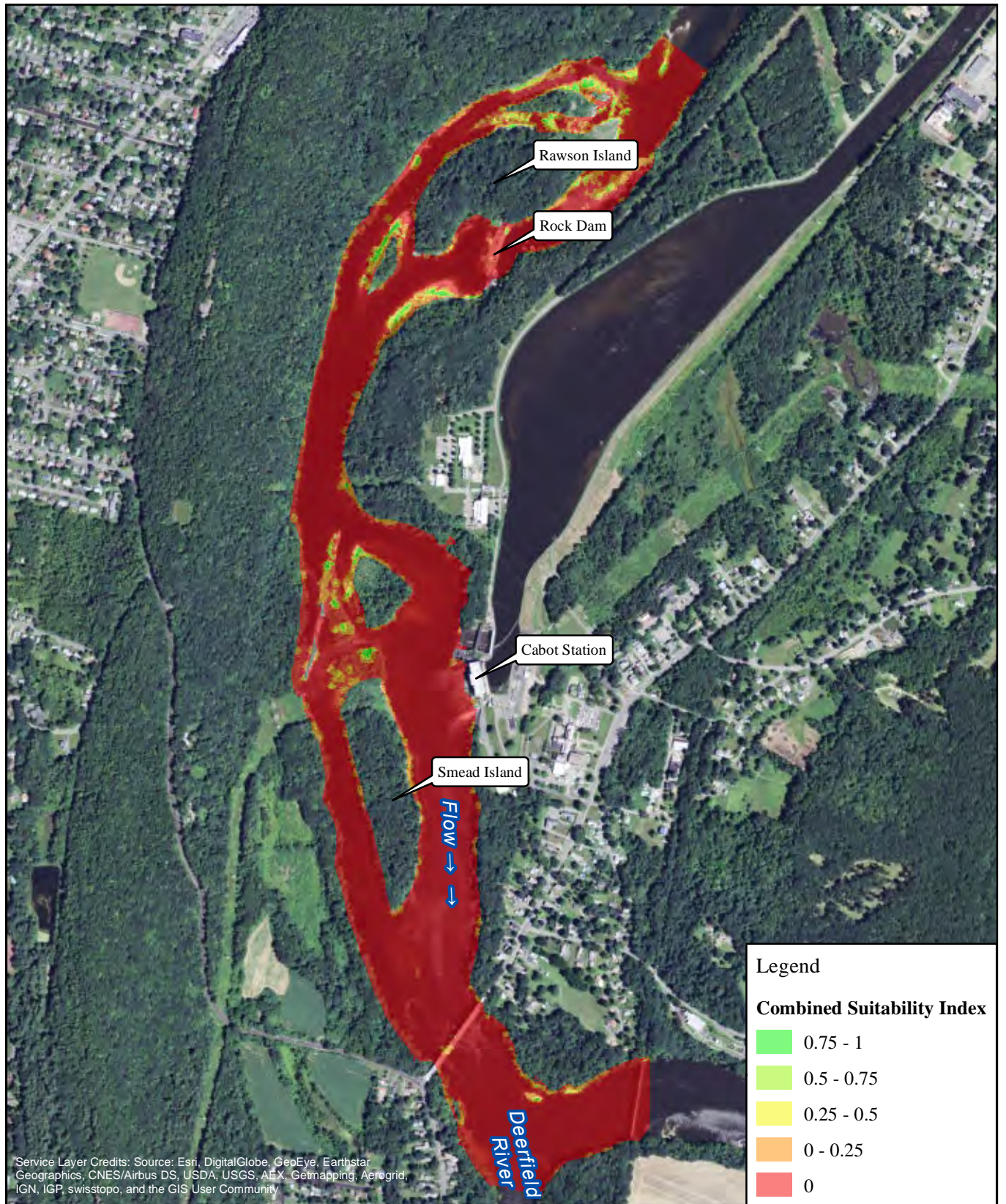
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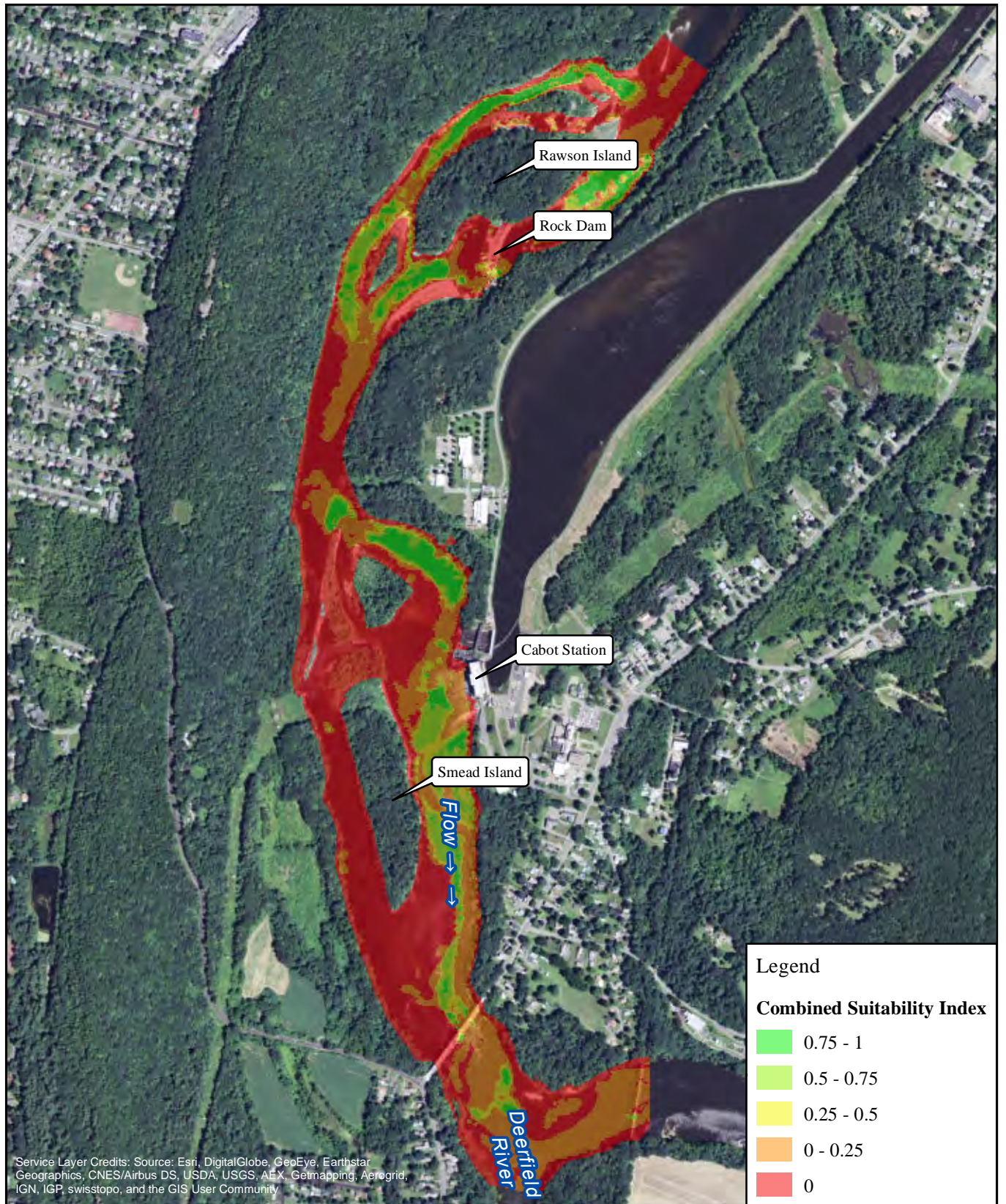
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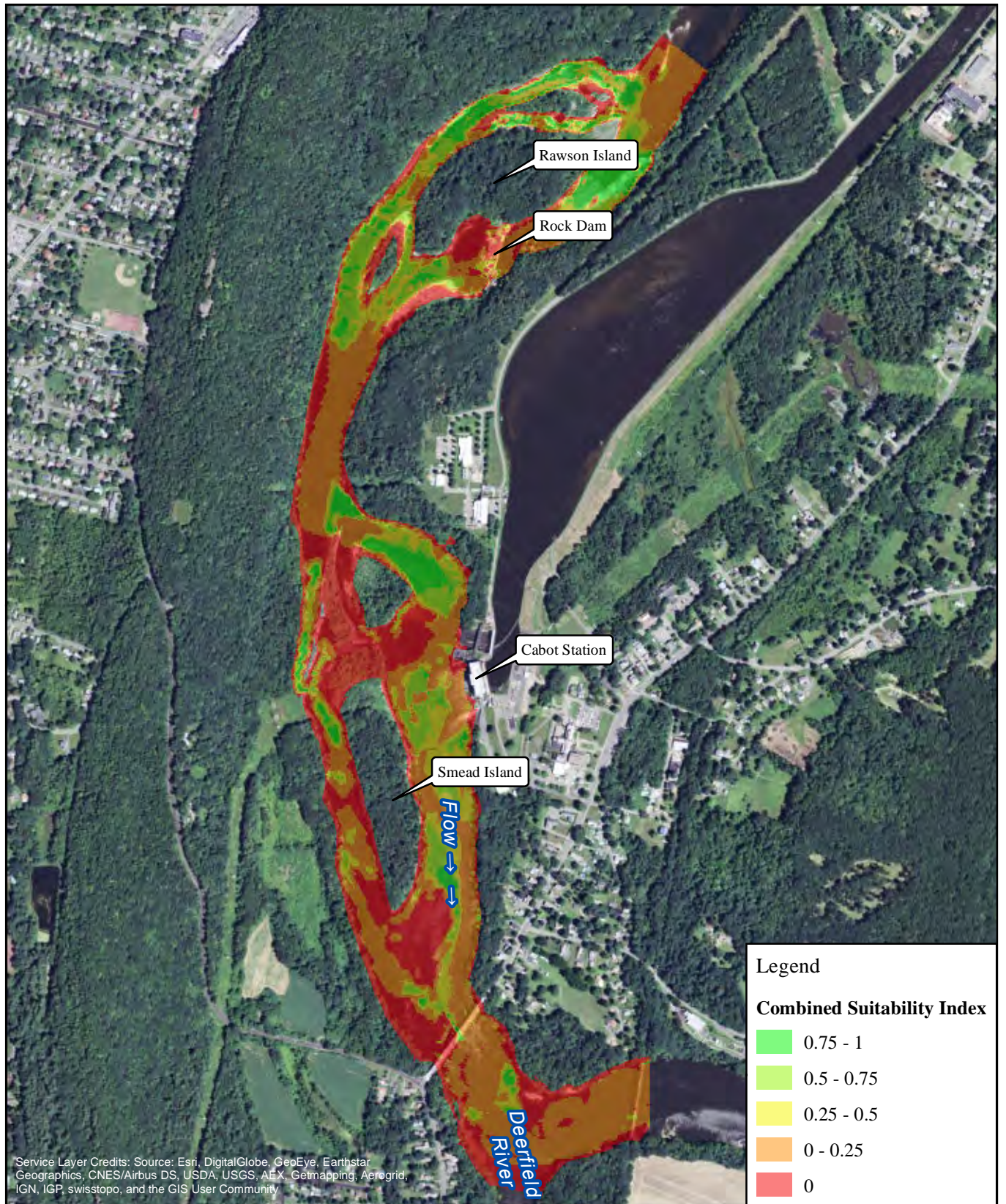
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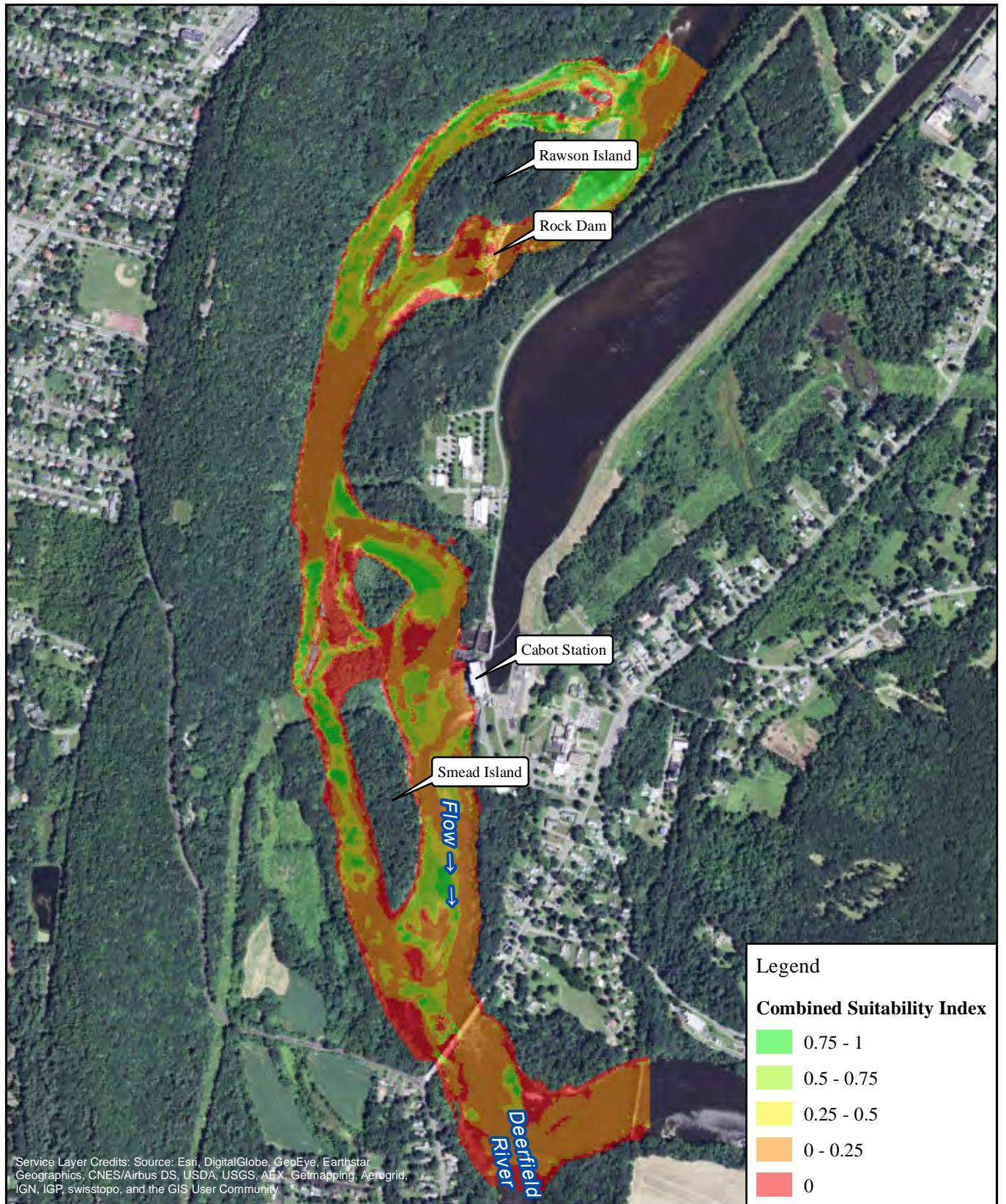
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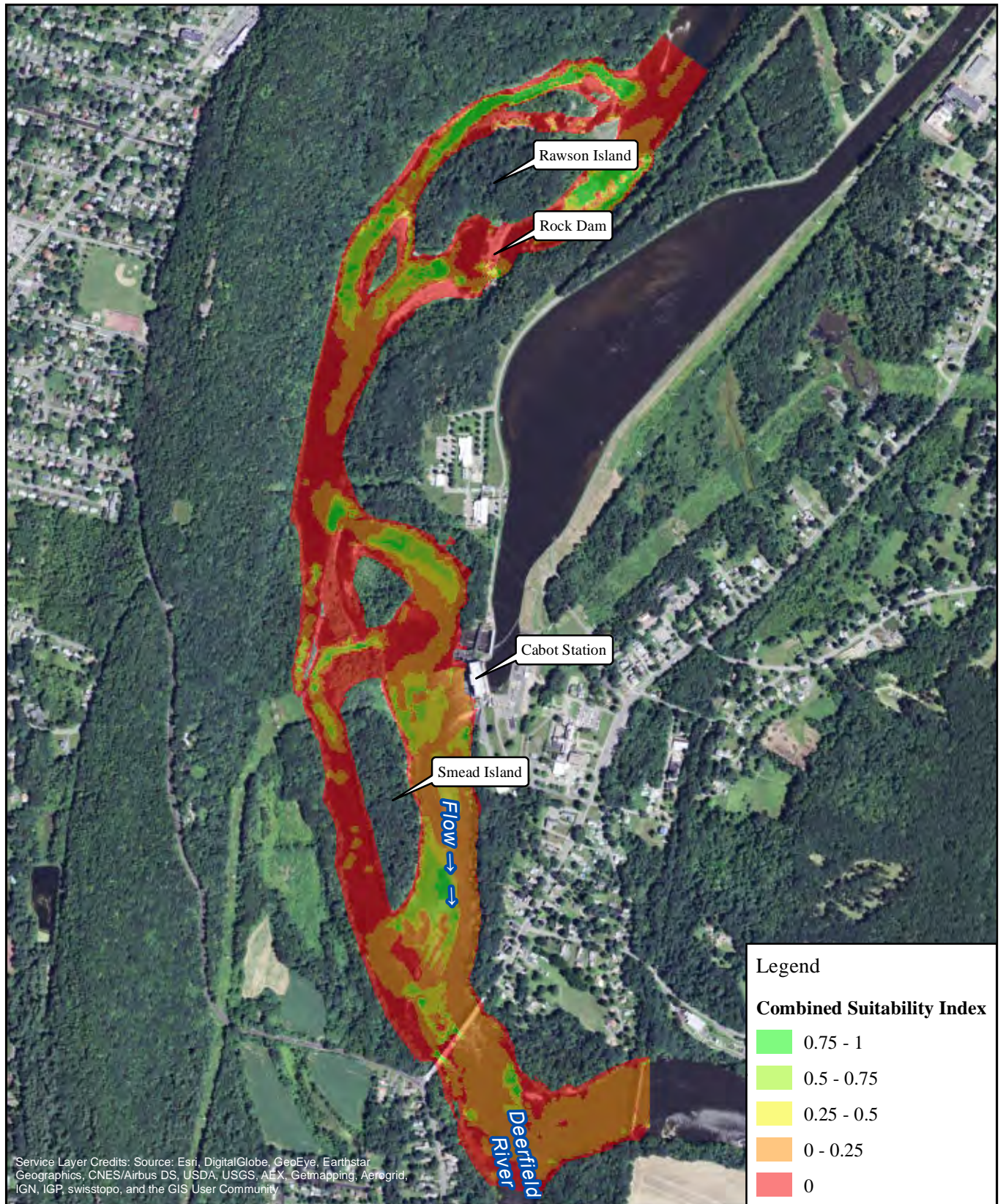
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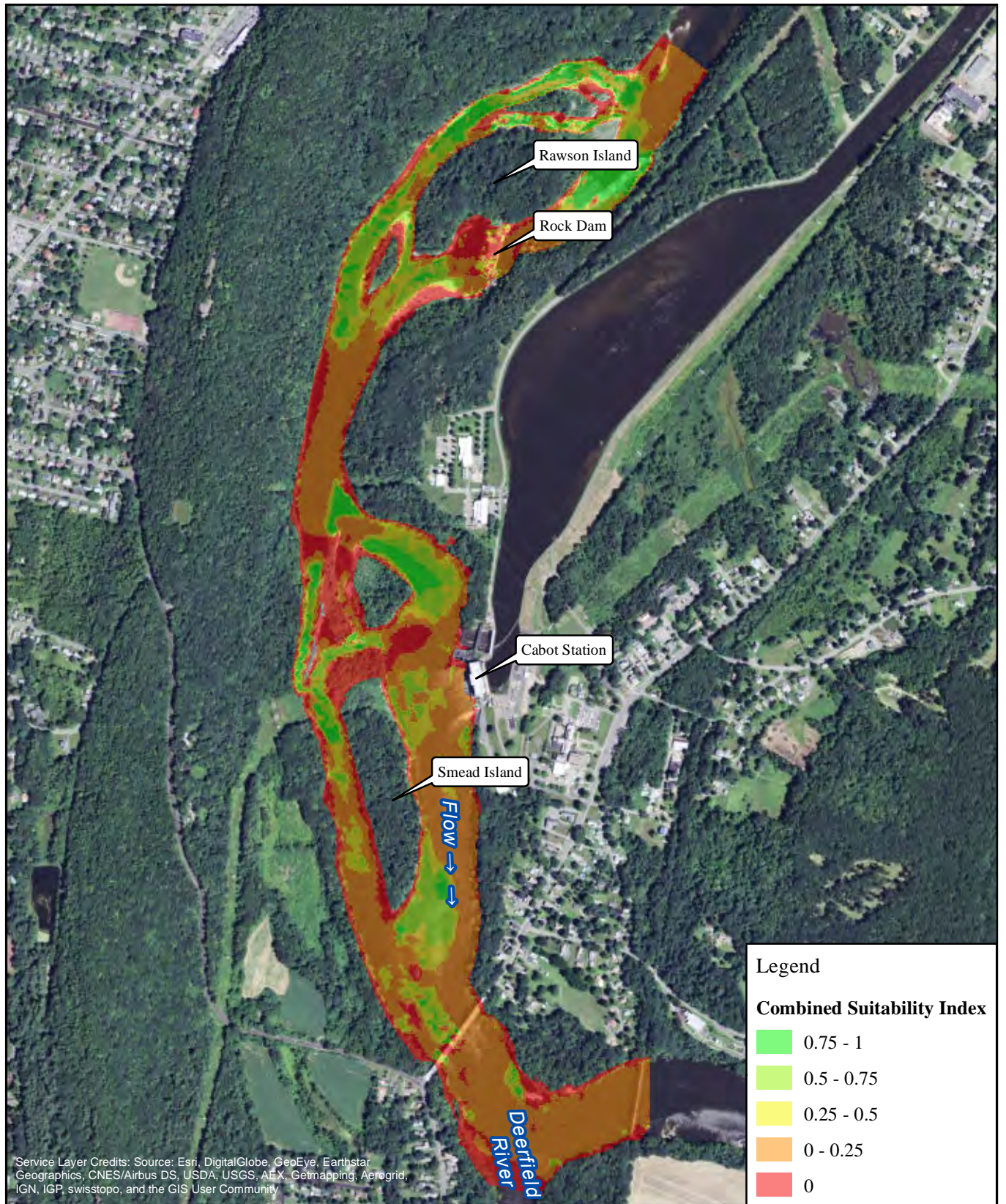
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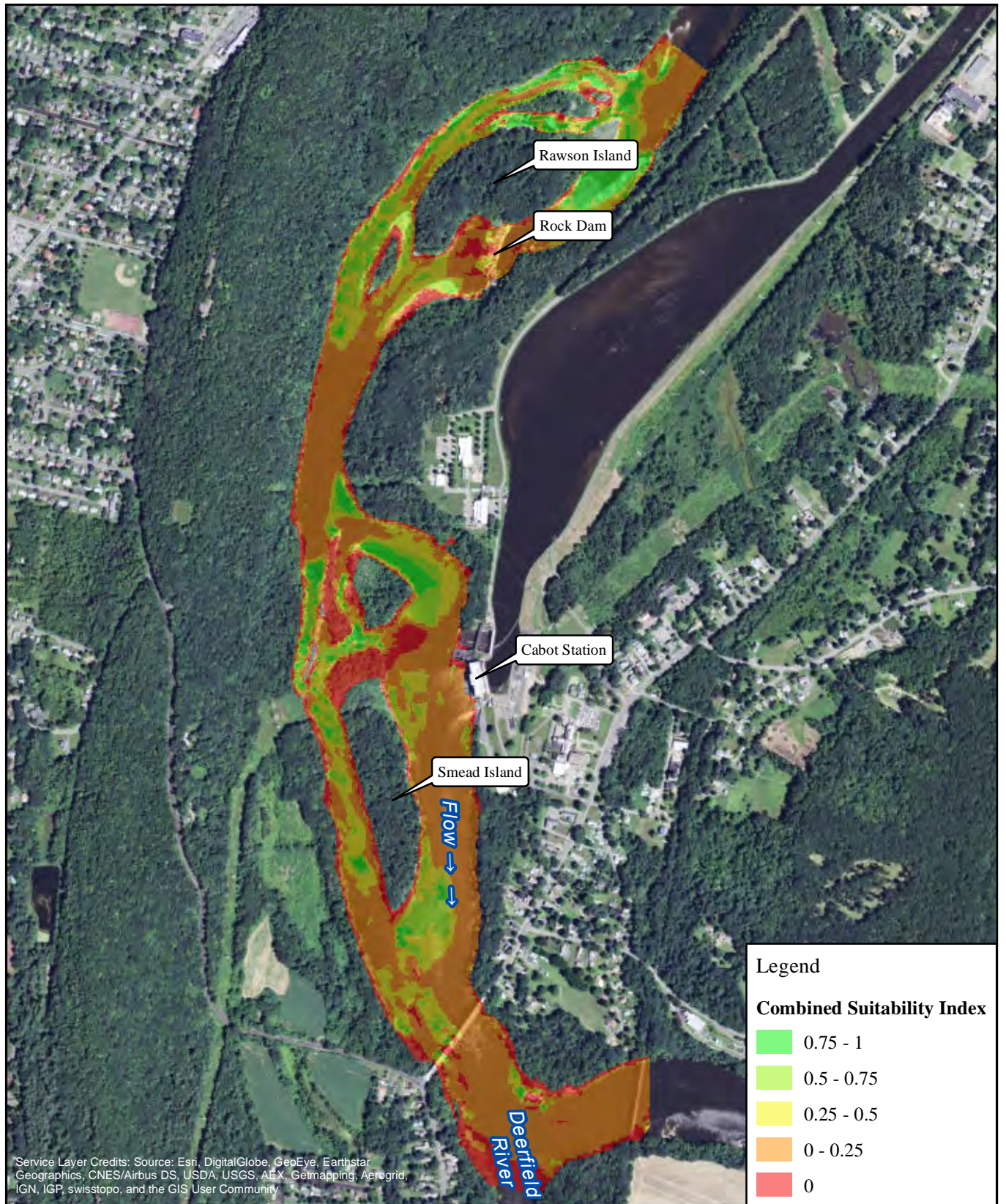
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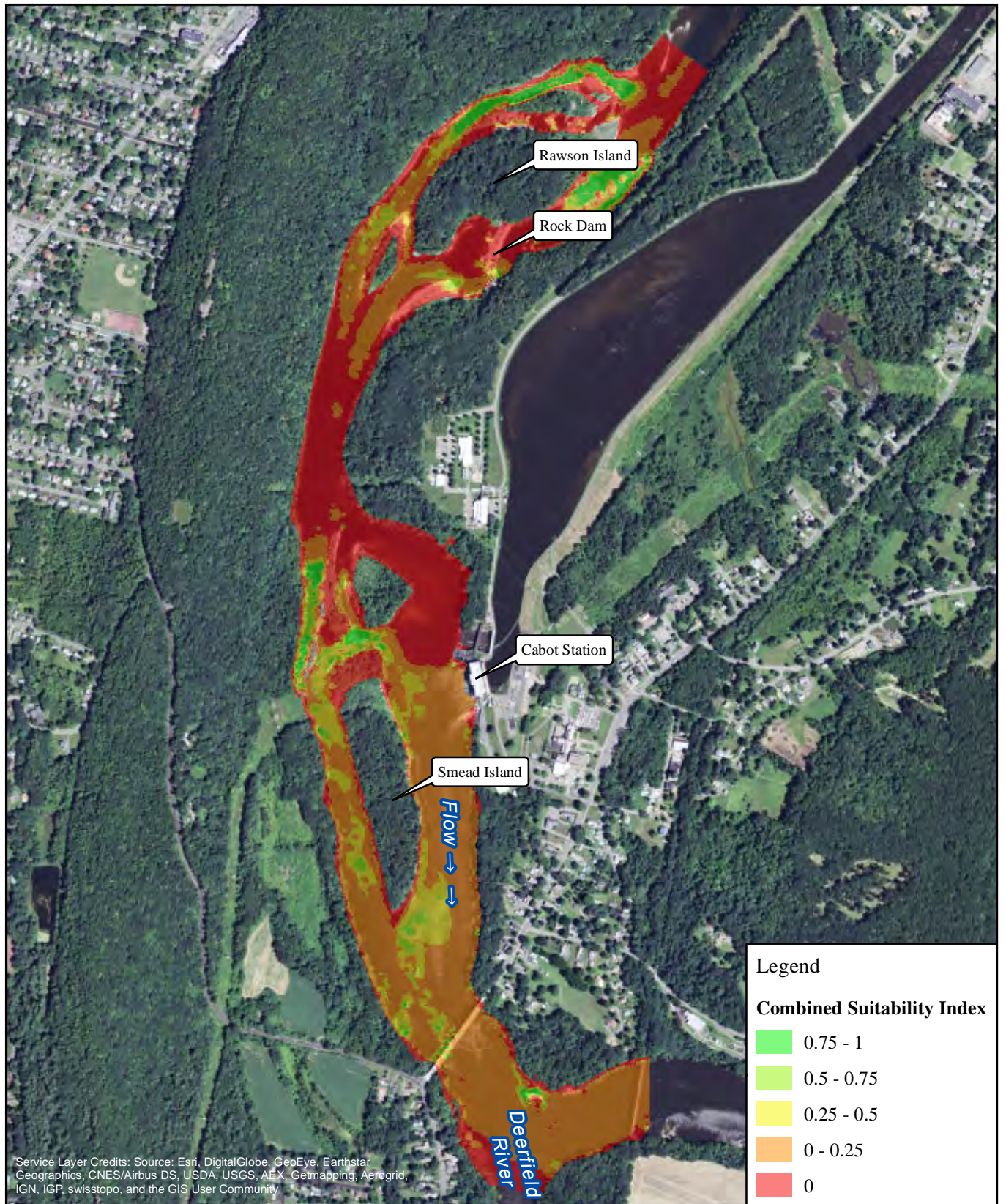
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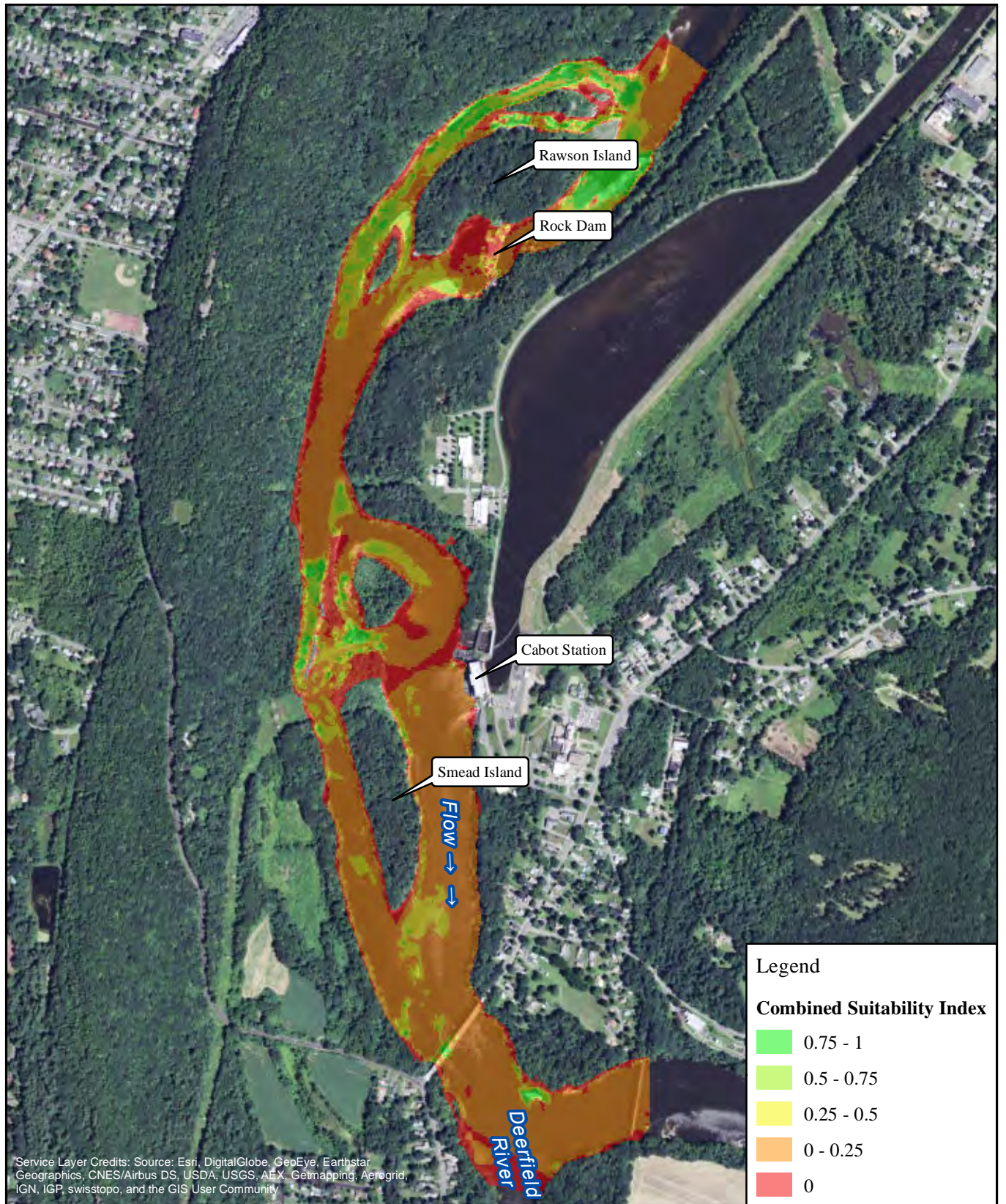
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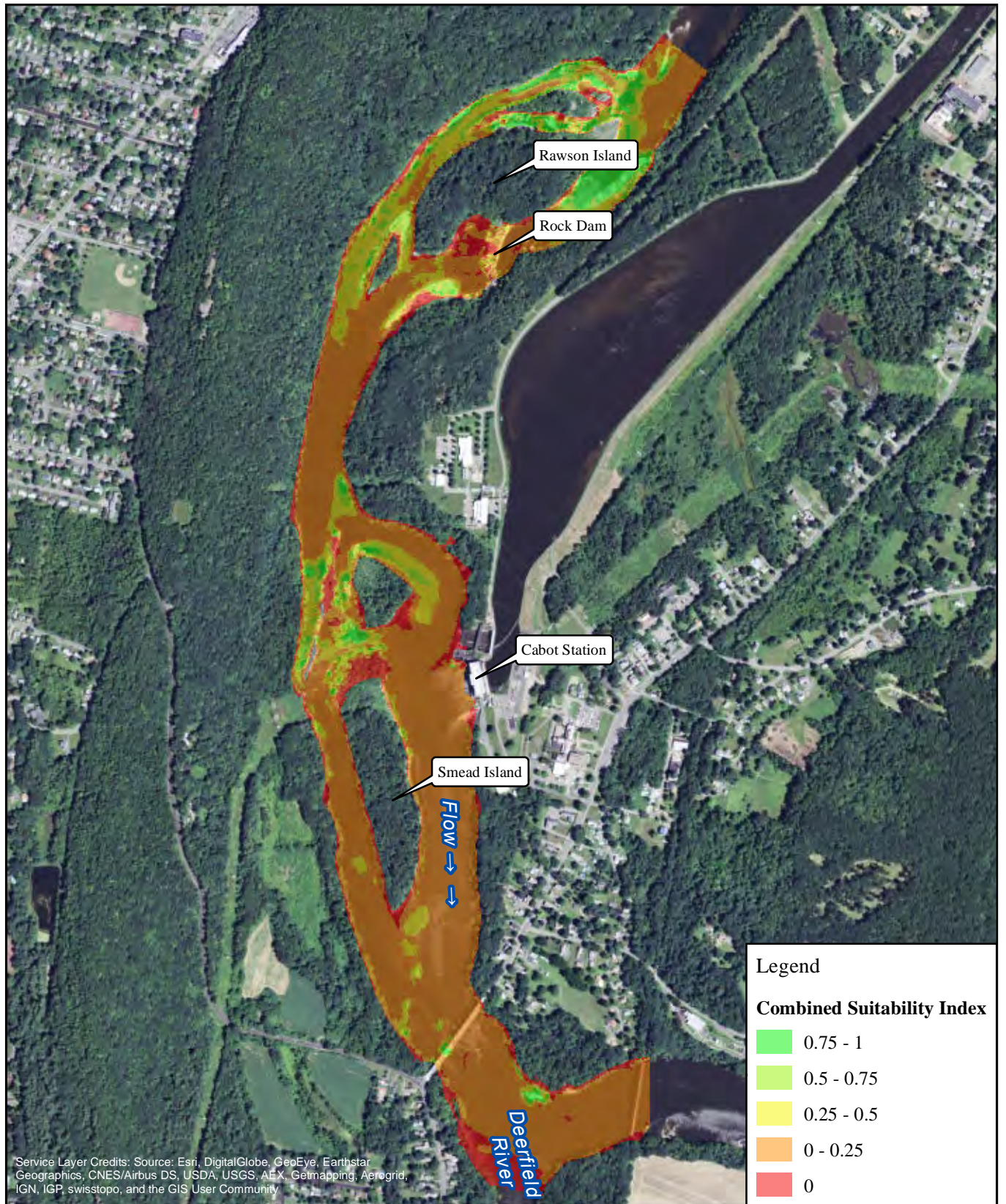
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Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Macroinvertebrates-
Cabot Flow: 14000 cfs
Bypass Flow: 3000 cfs
Deerfield Flow: 200 cfs

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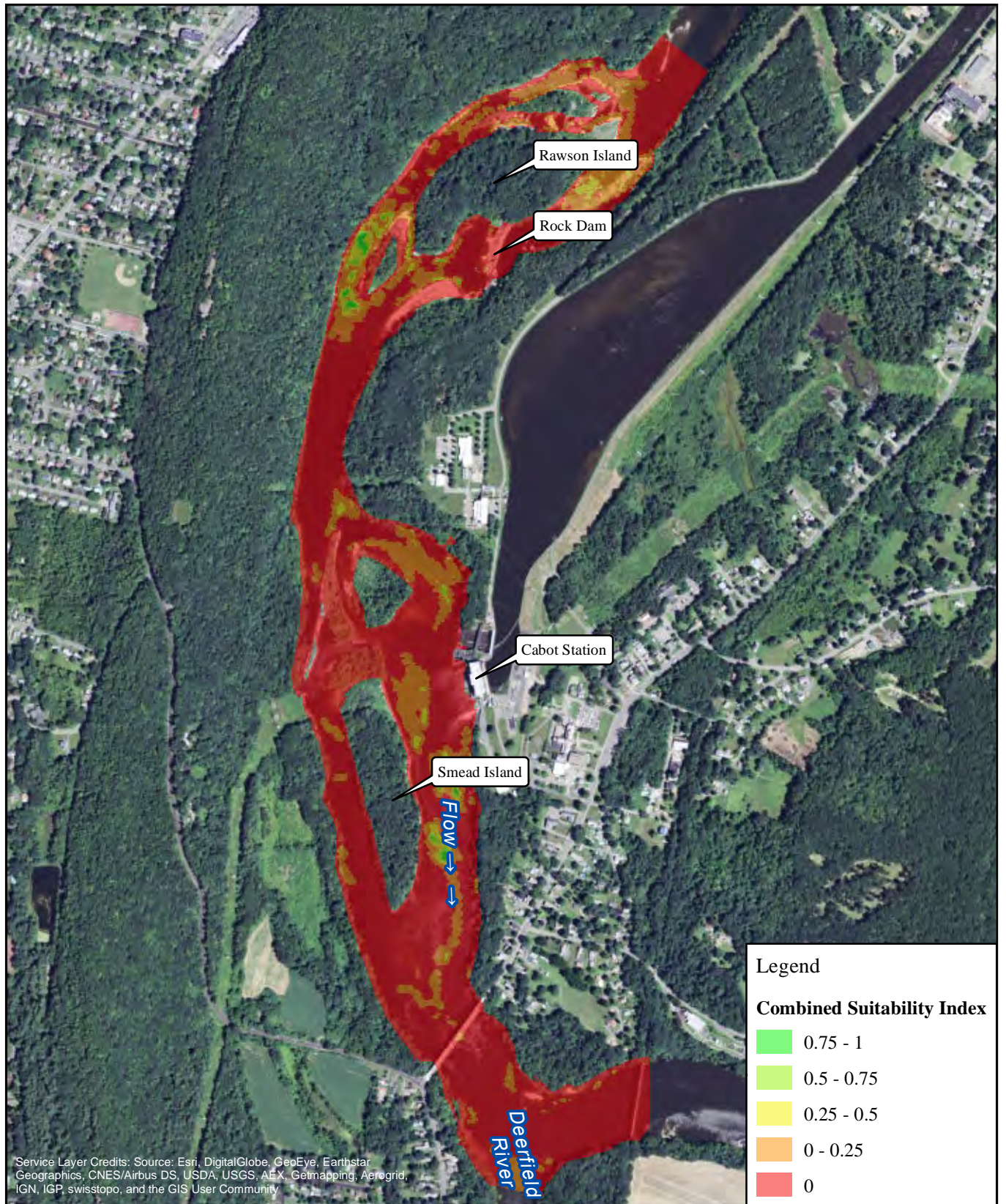
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Macroinvertebrates-
Cabot Flow: 14000 cfs
Bypass Flow: 5000 cfs
Deerfield Flow: 200 cfs

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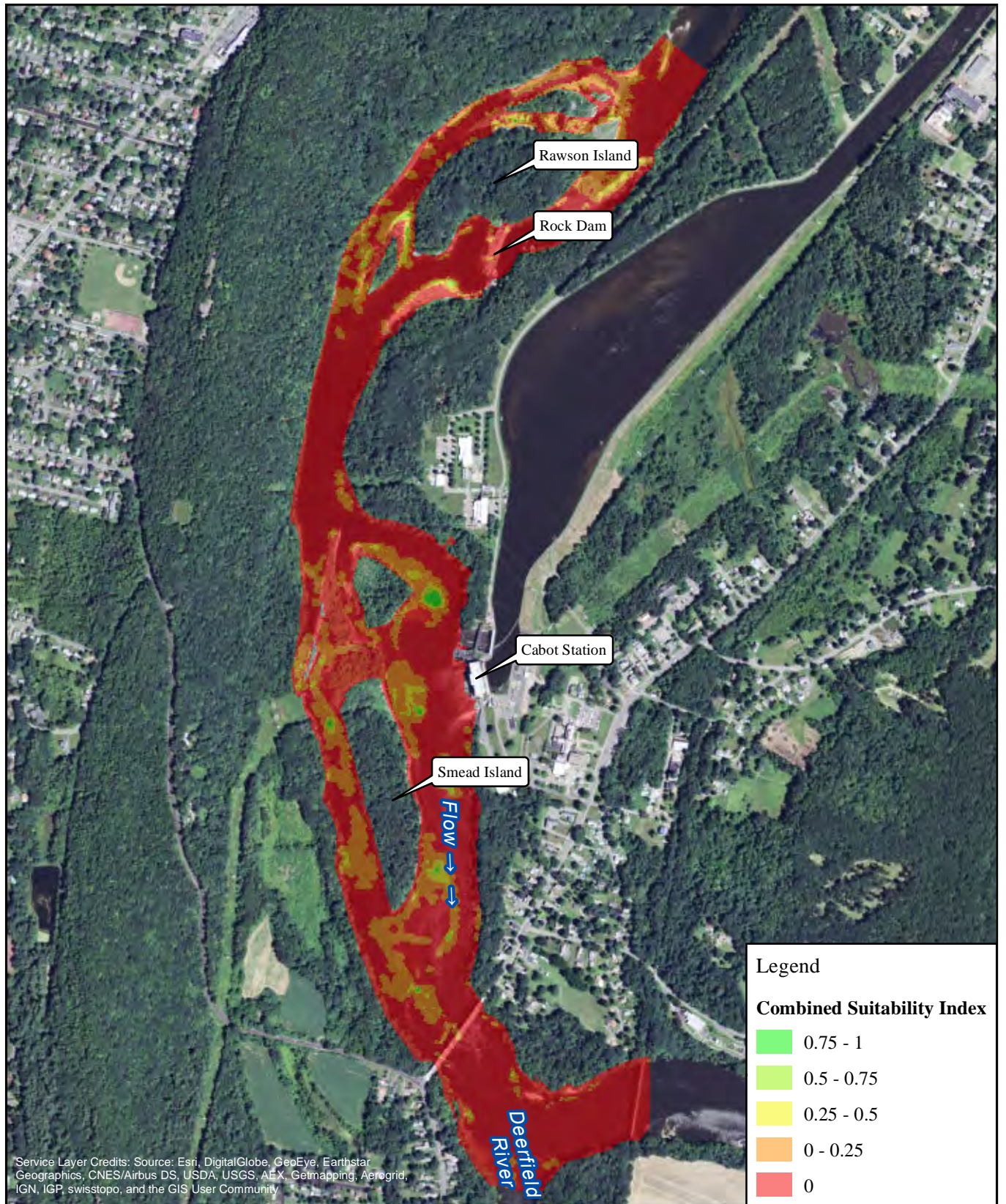
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Sea Lamprey-
Cabot Flow: 2500 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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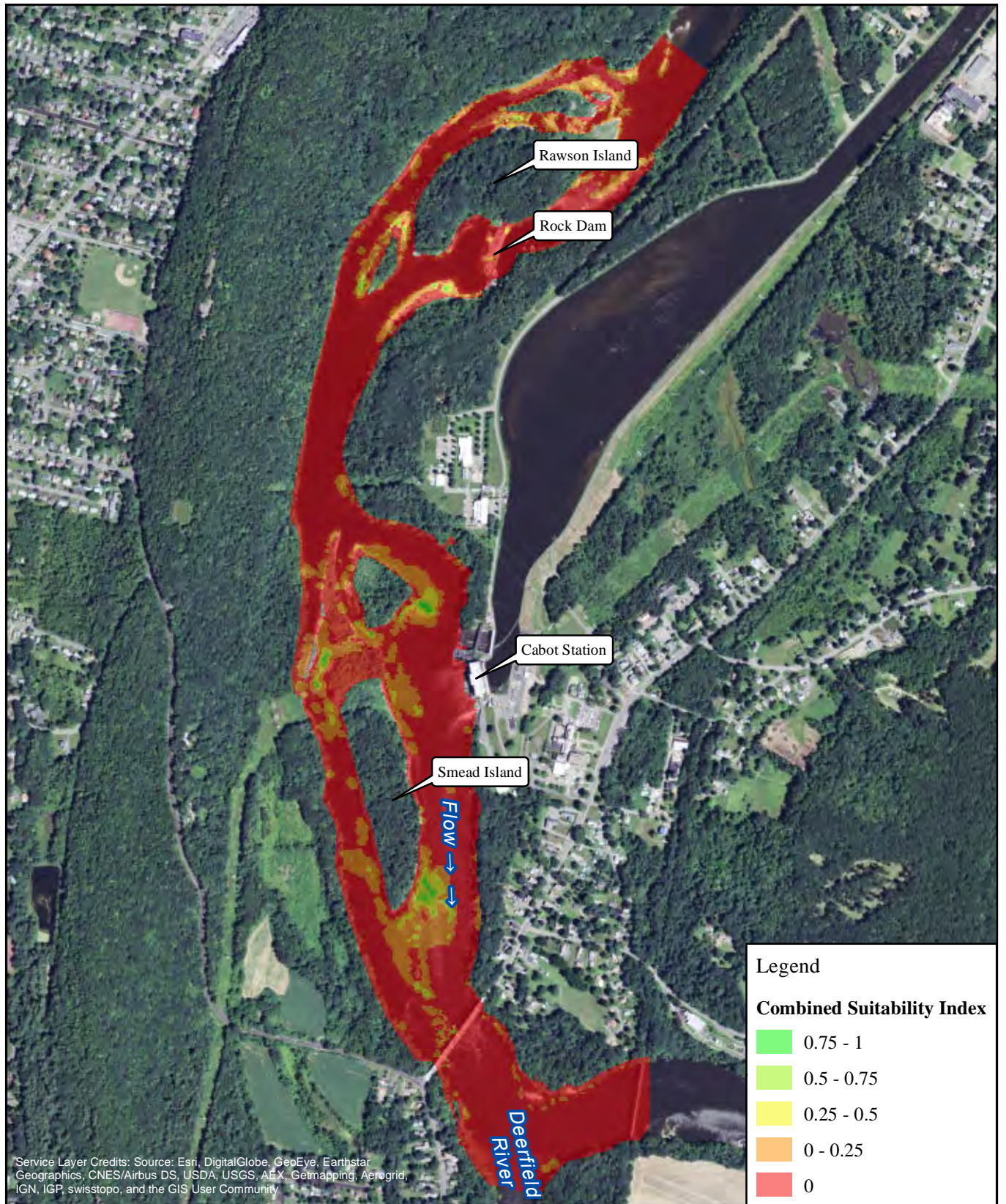
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0 500 1,000 2,000
Feet

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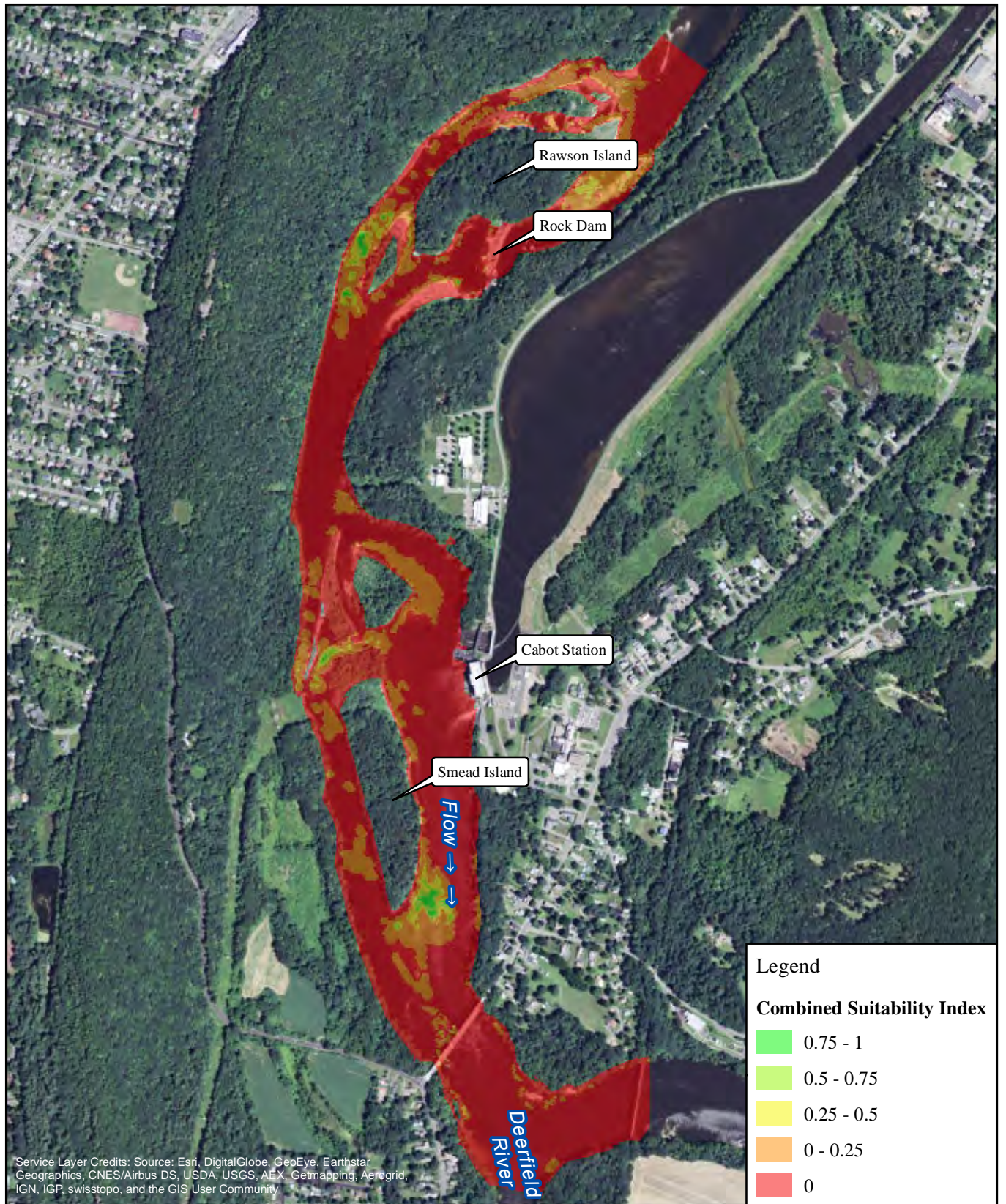
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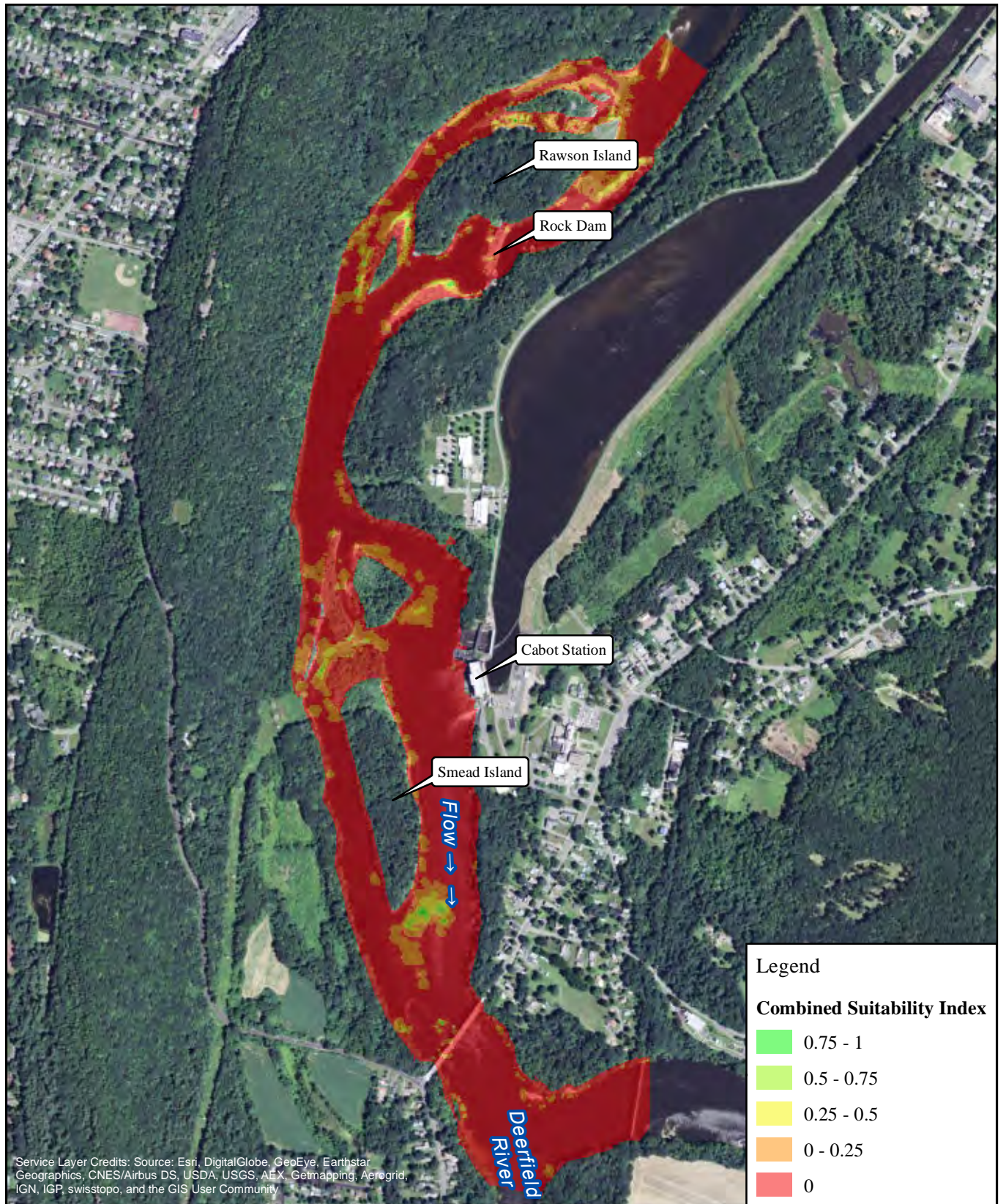
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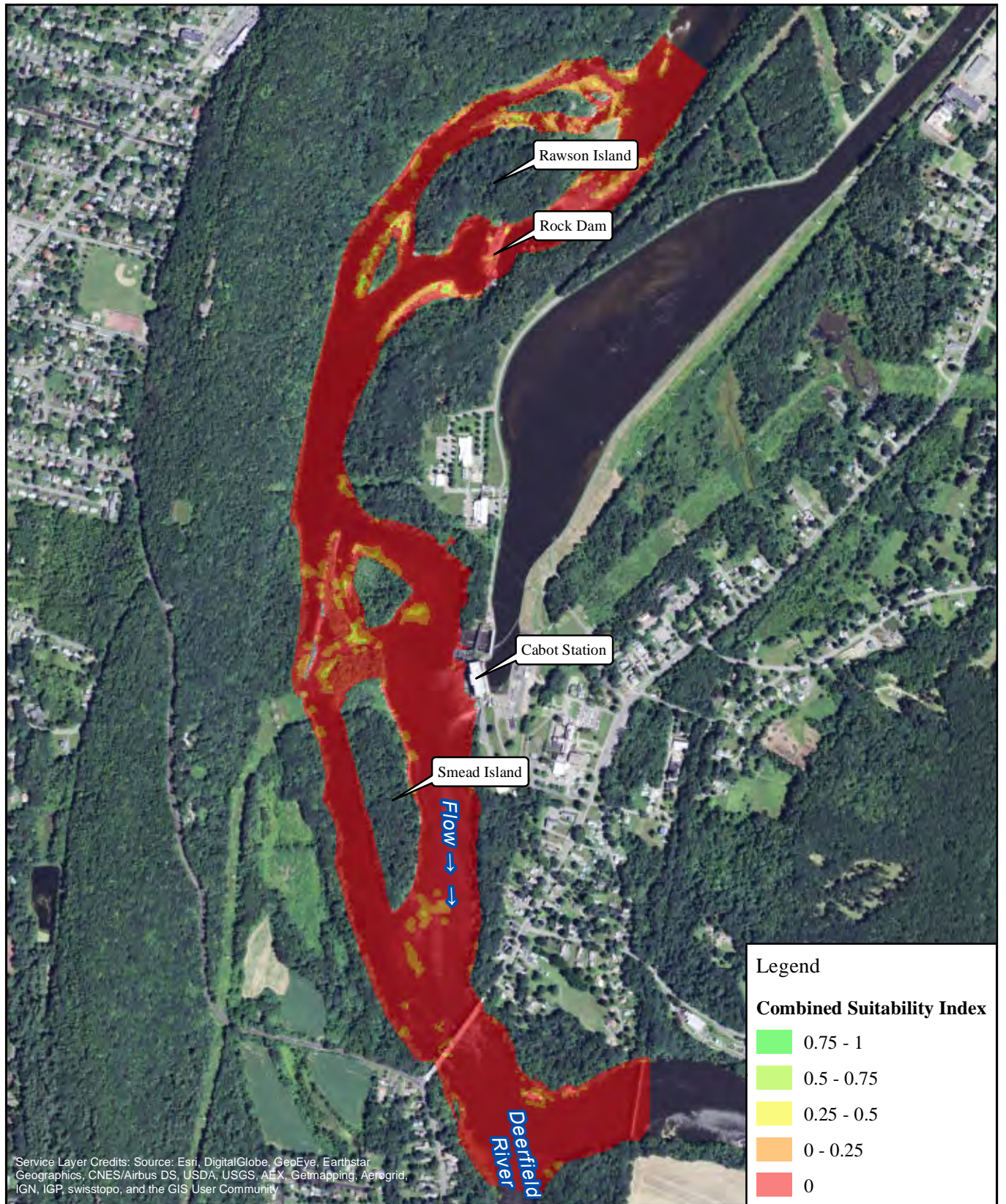
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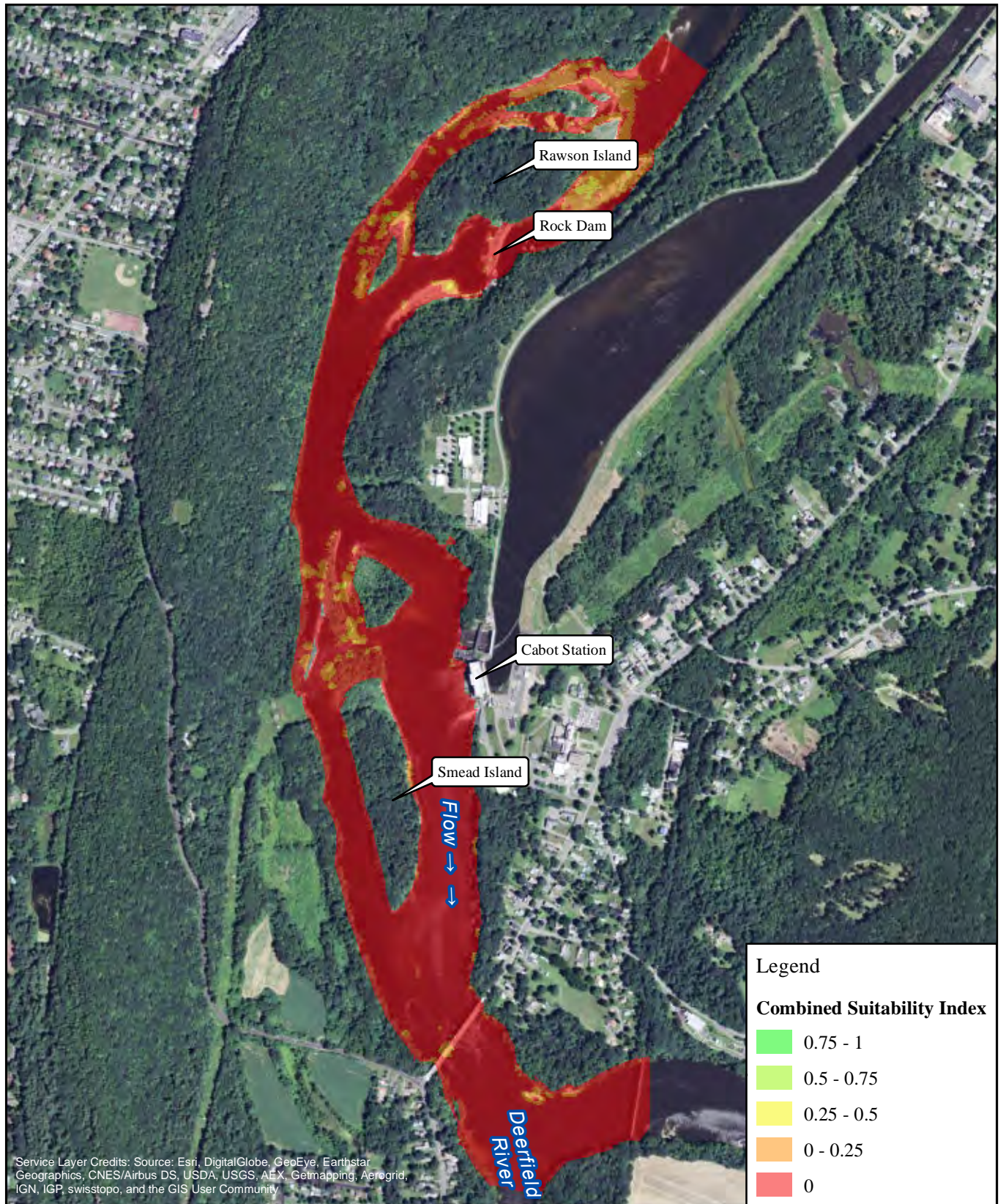
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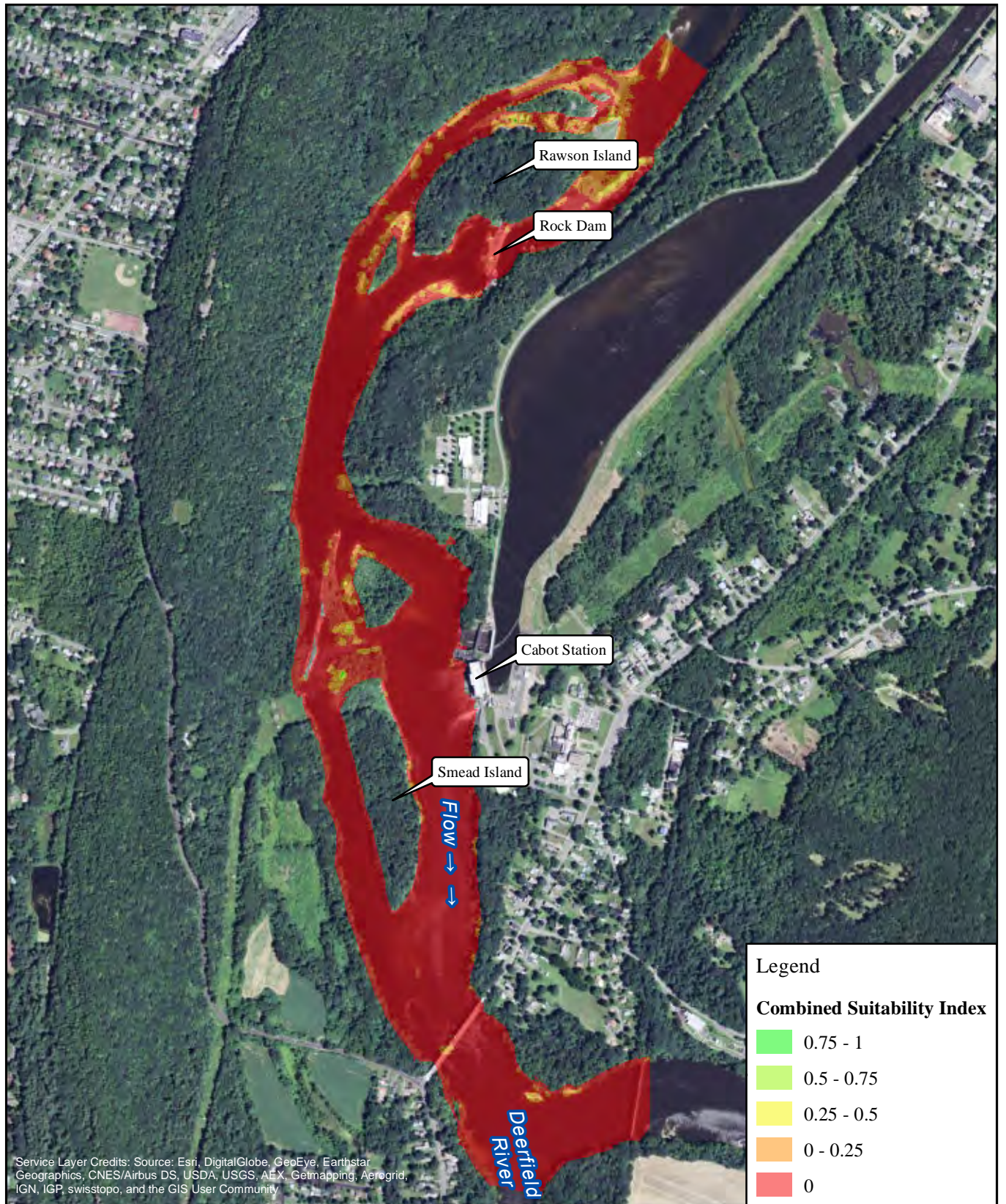
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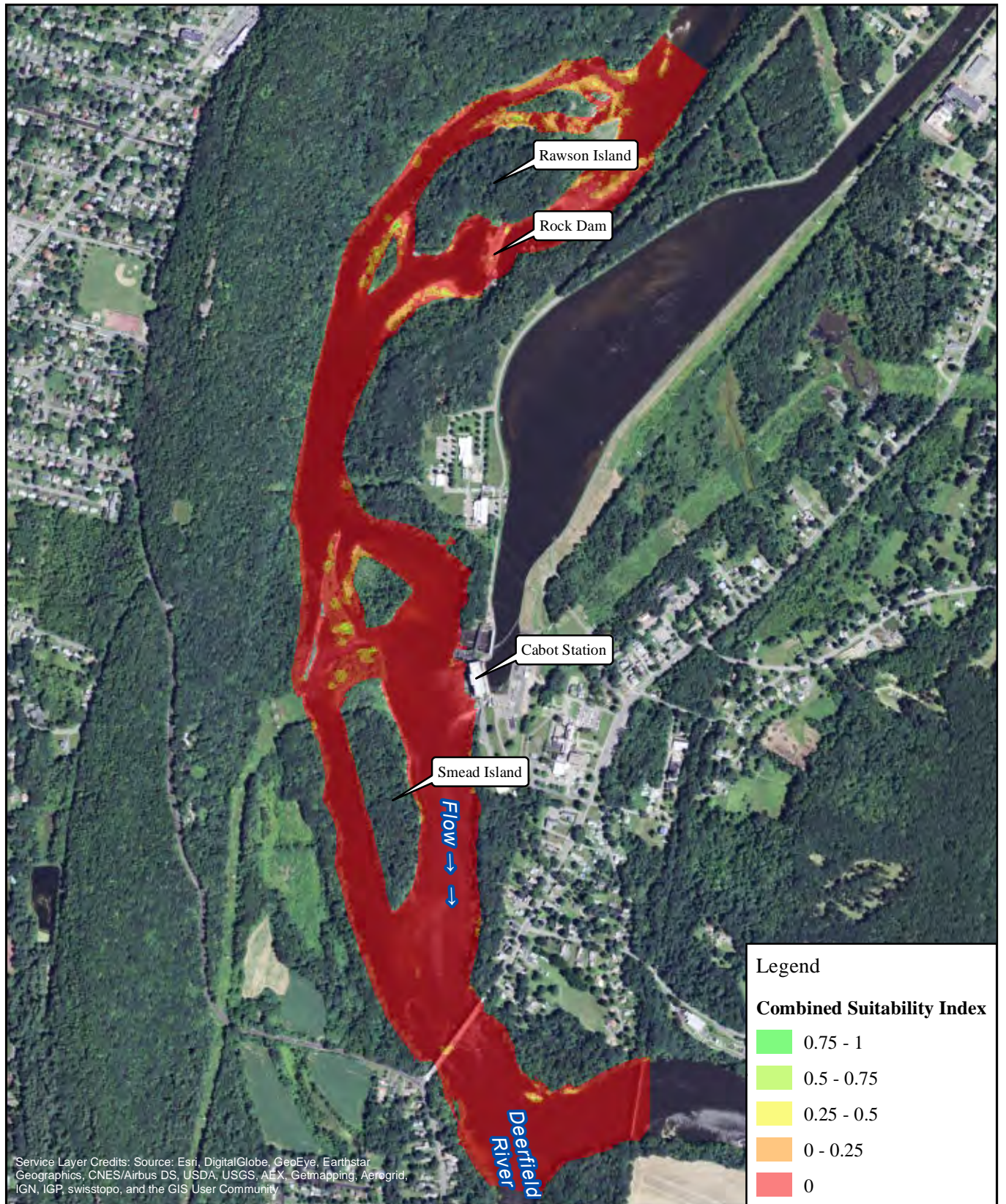
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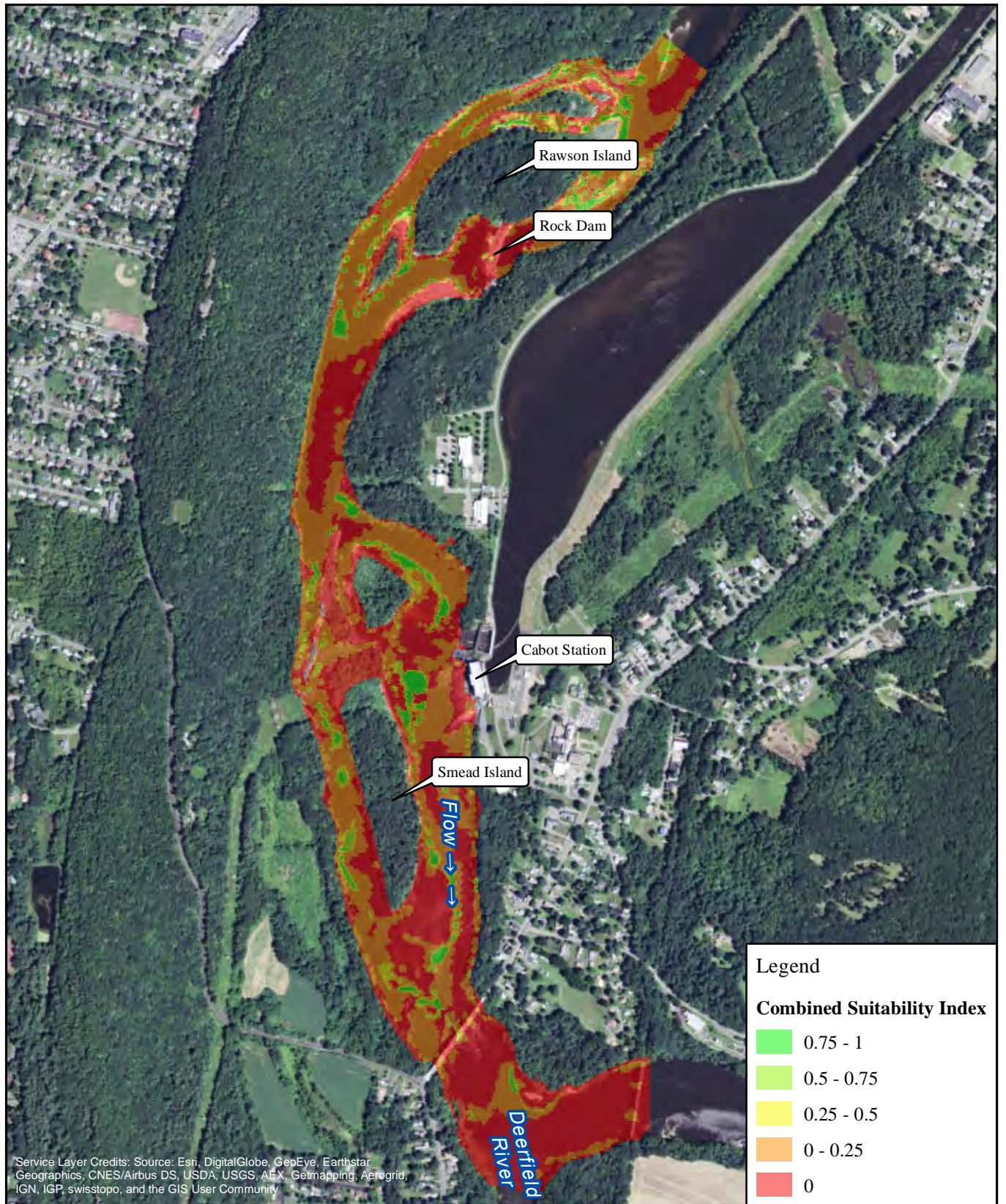
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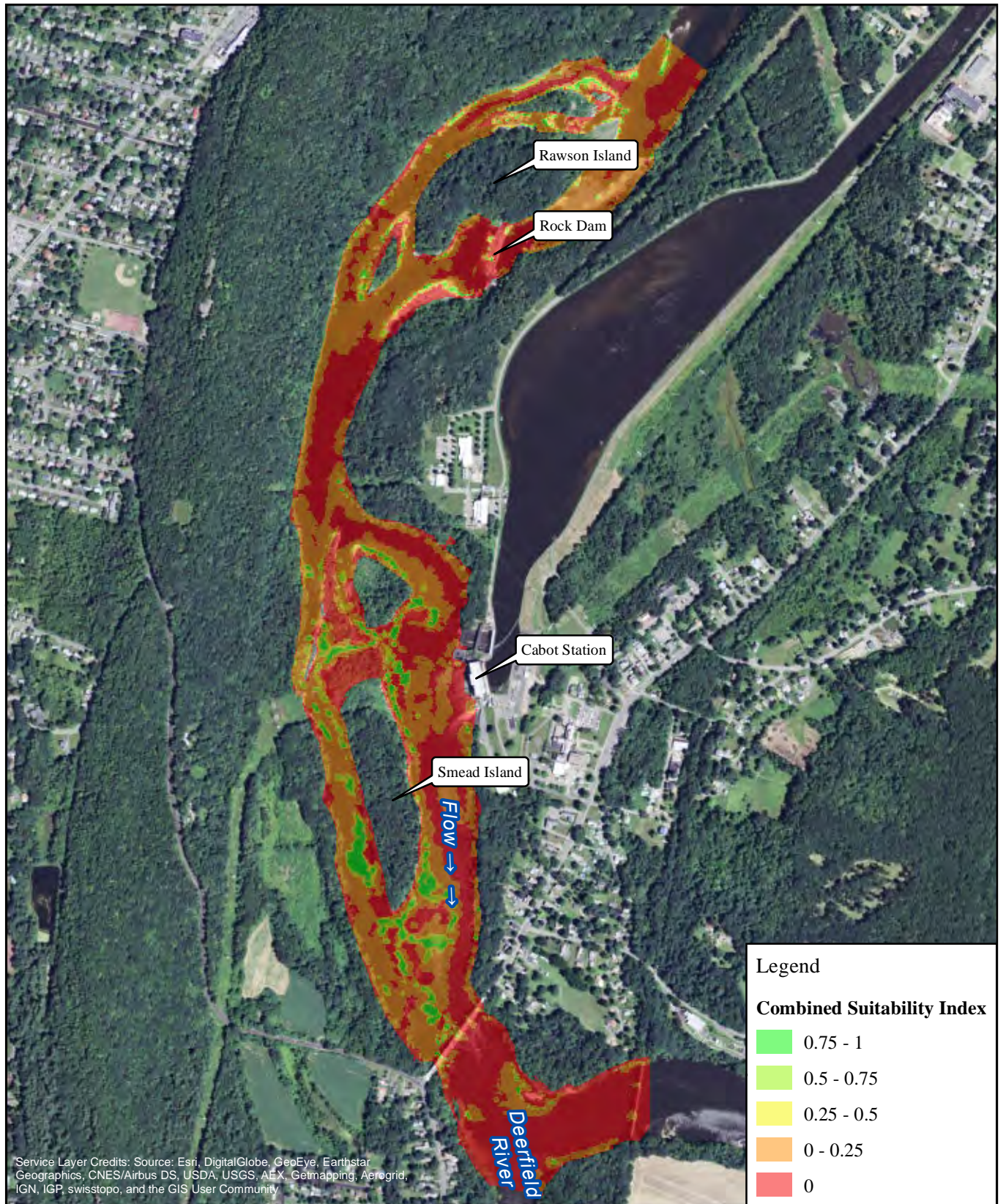
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Feet

Shallow Fast Guild-
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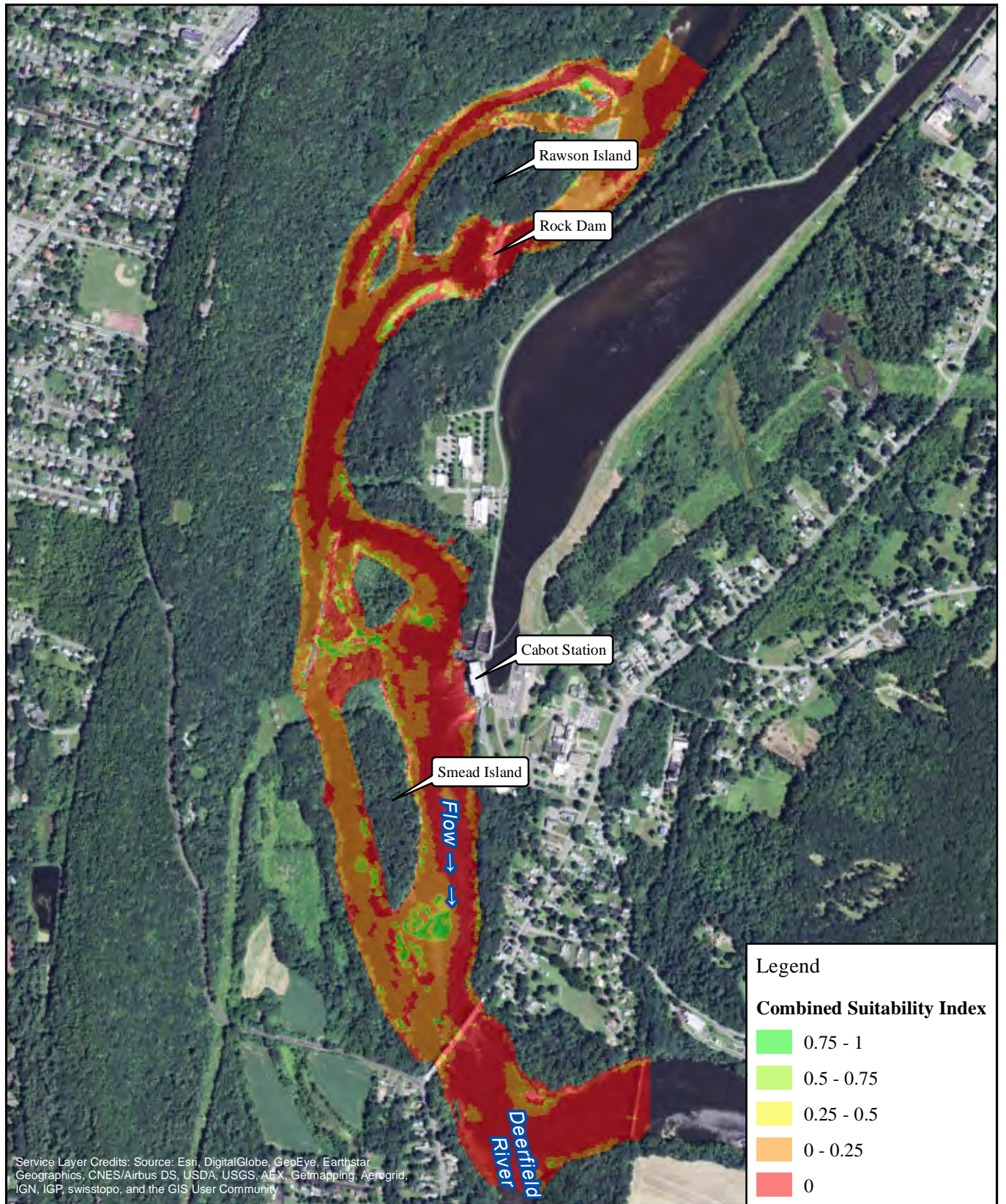


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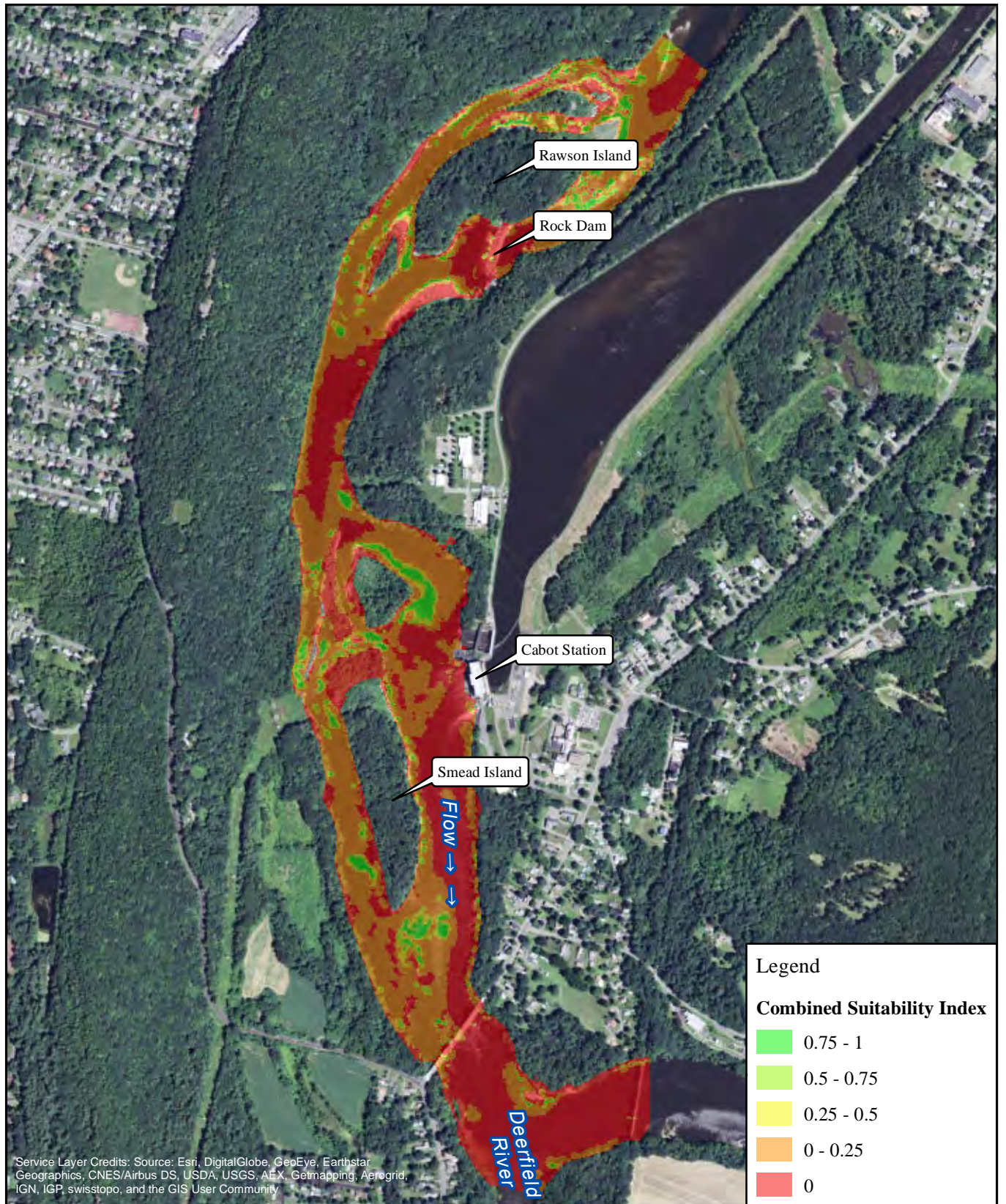
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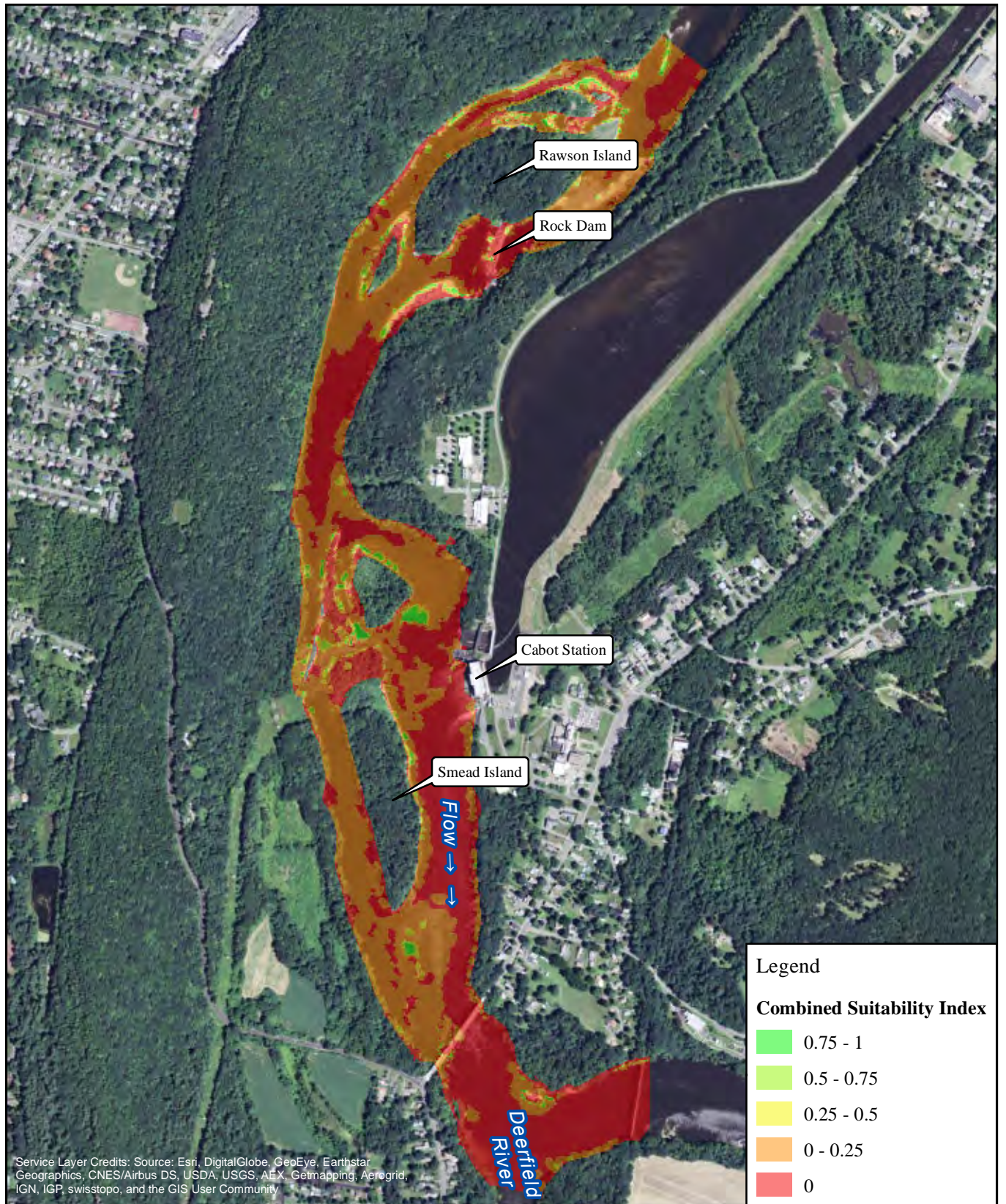
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0 500 1,000 2,000
Feet

Shallow Fast Guild-
Cabot Flow: 7000 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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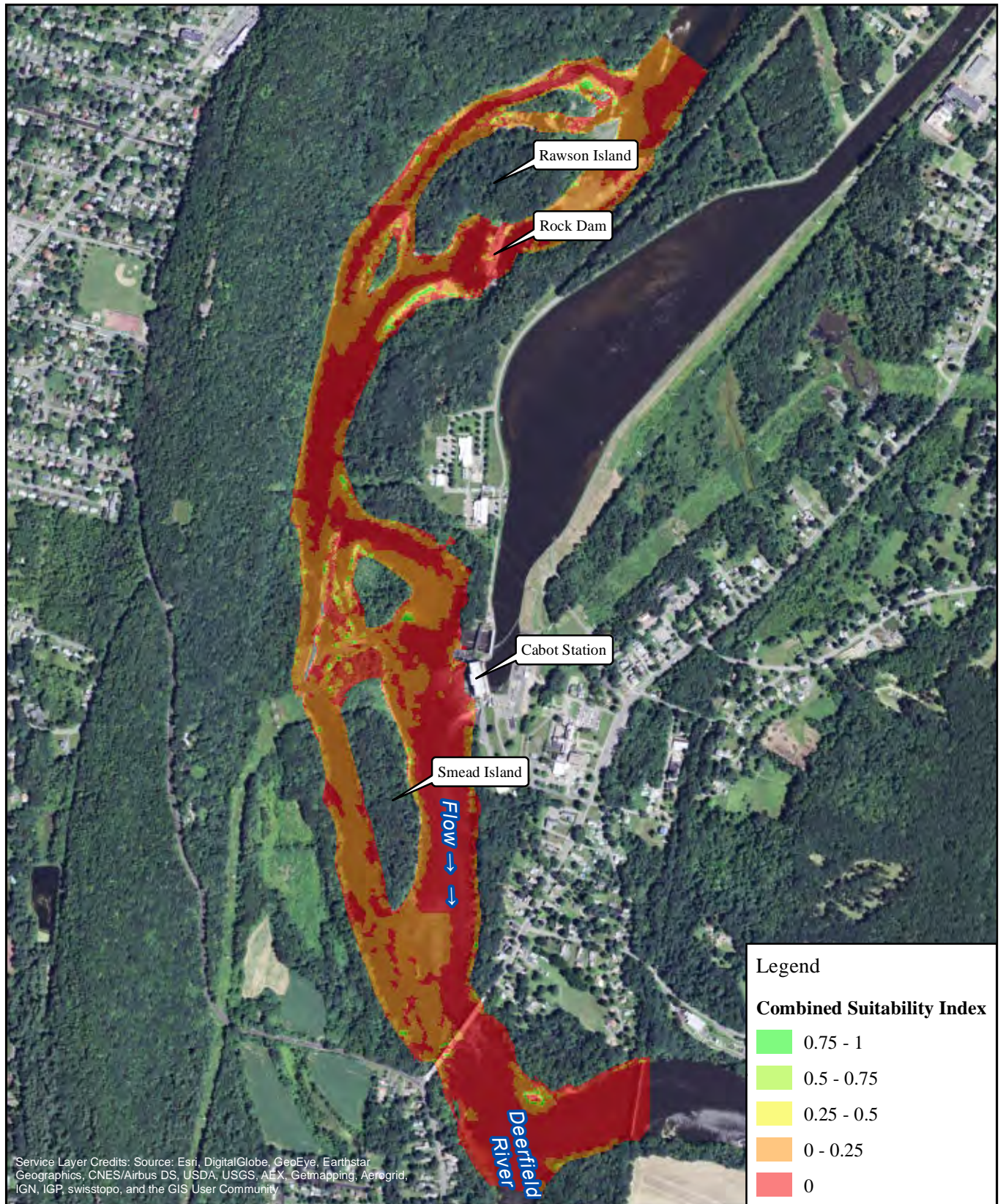


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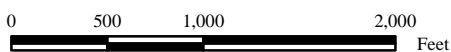
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Shallow Fast Guild-
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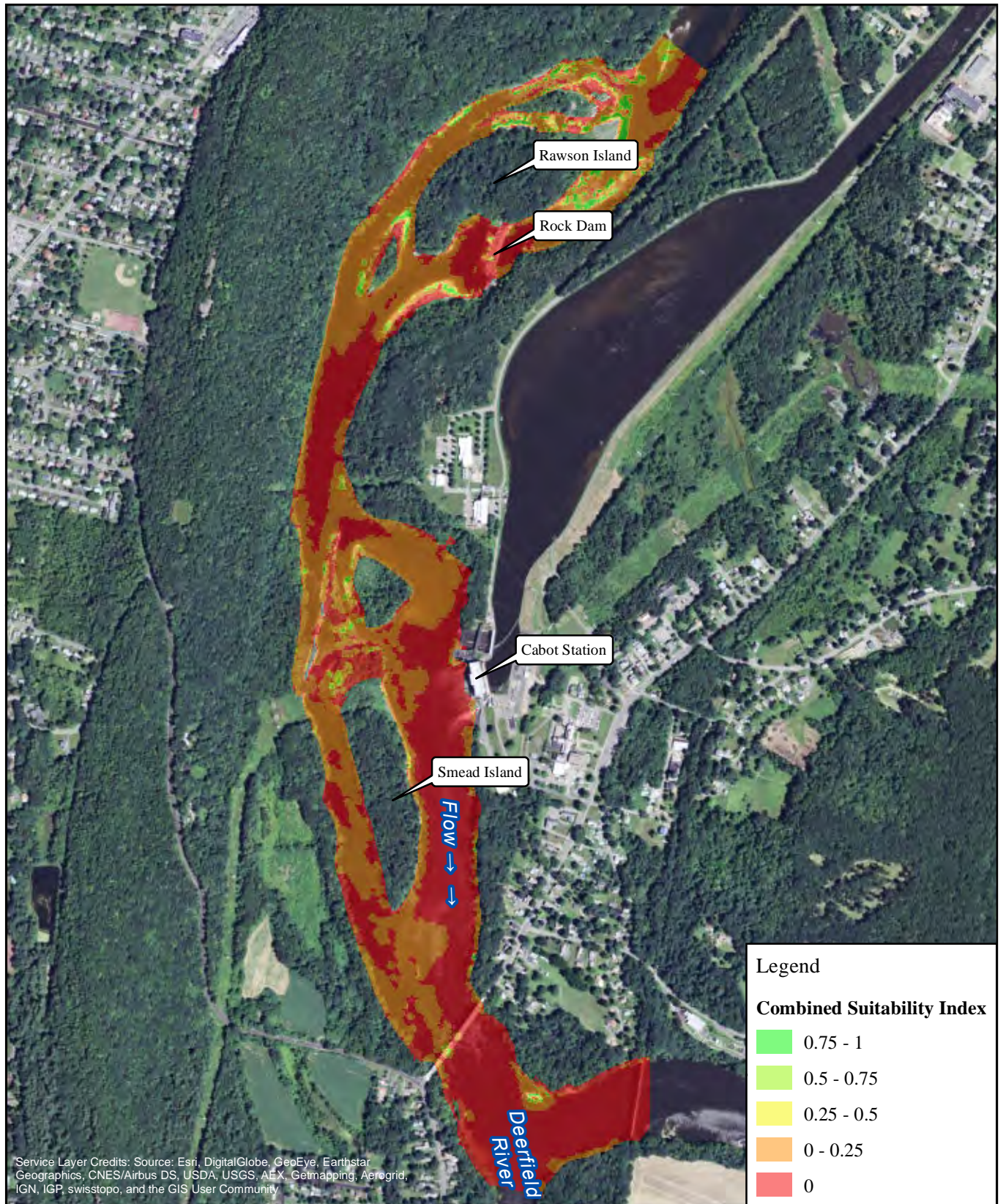


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Shallow Fast Guild-
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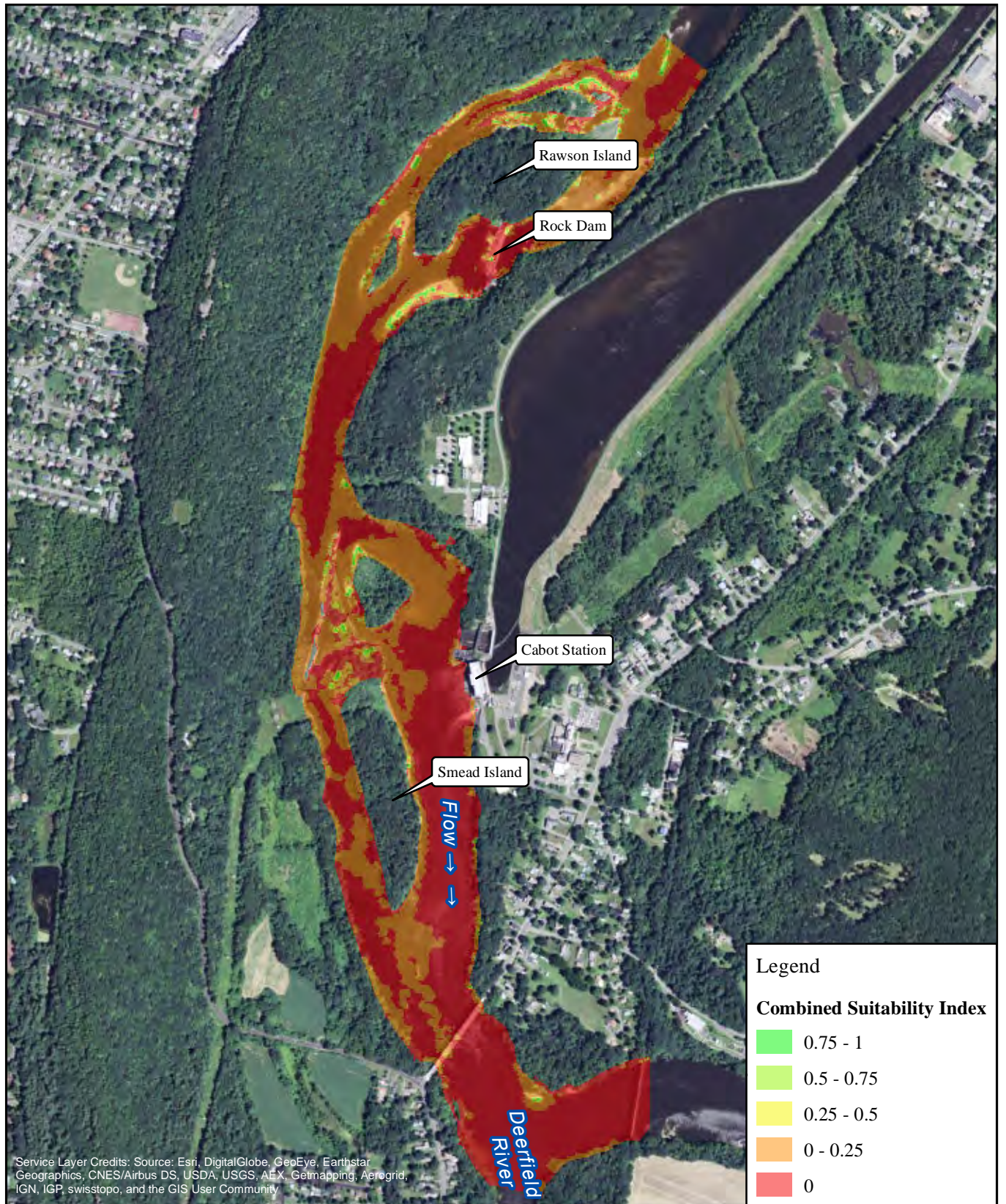
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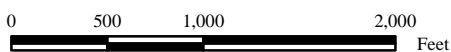
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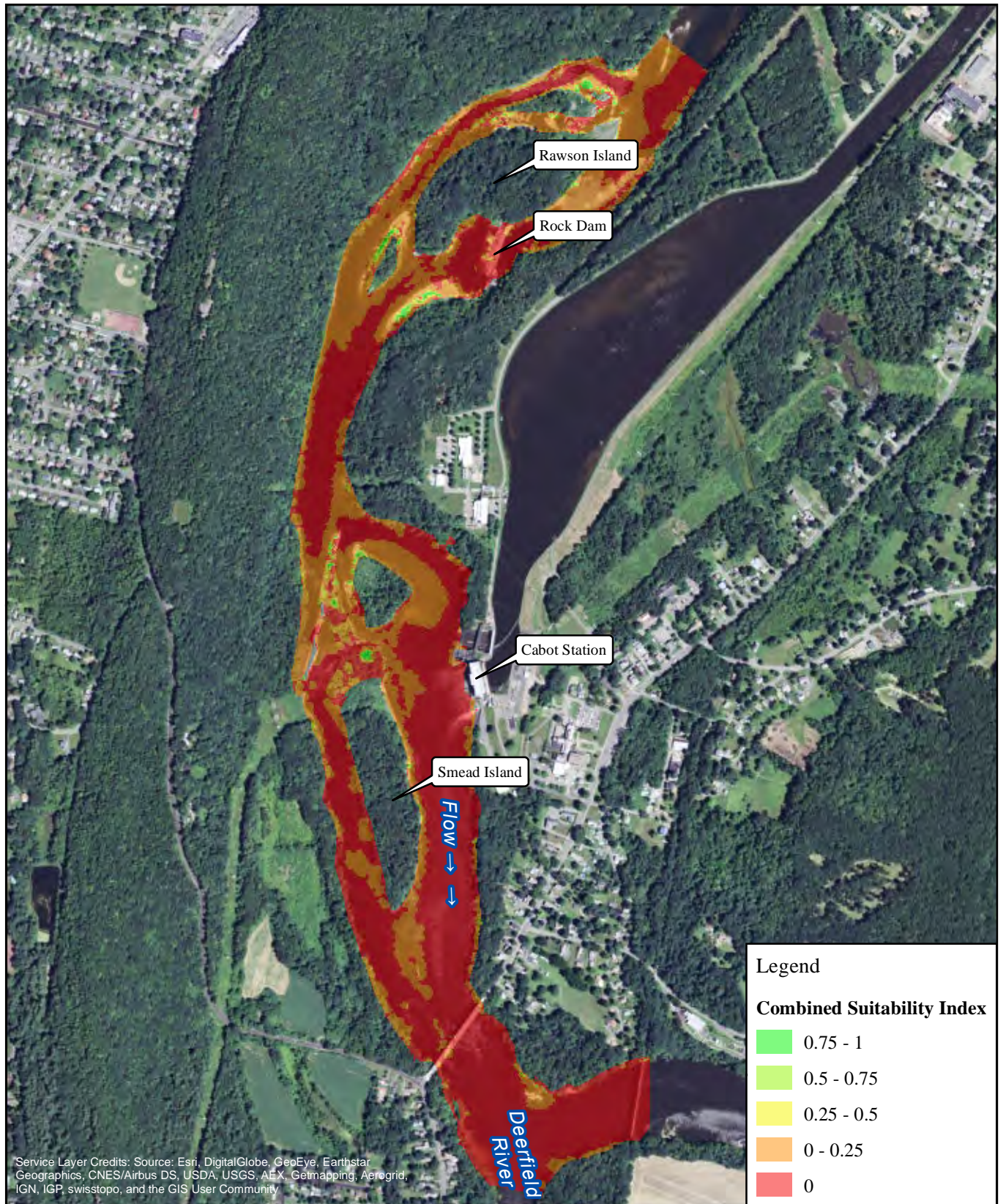


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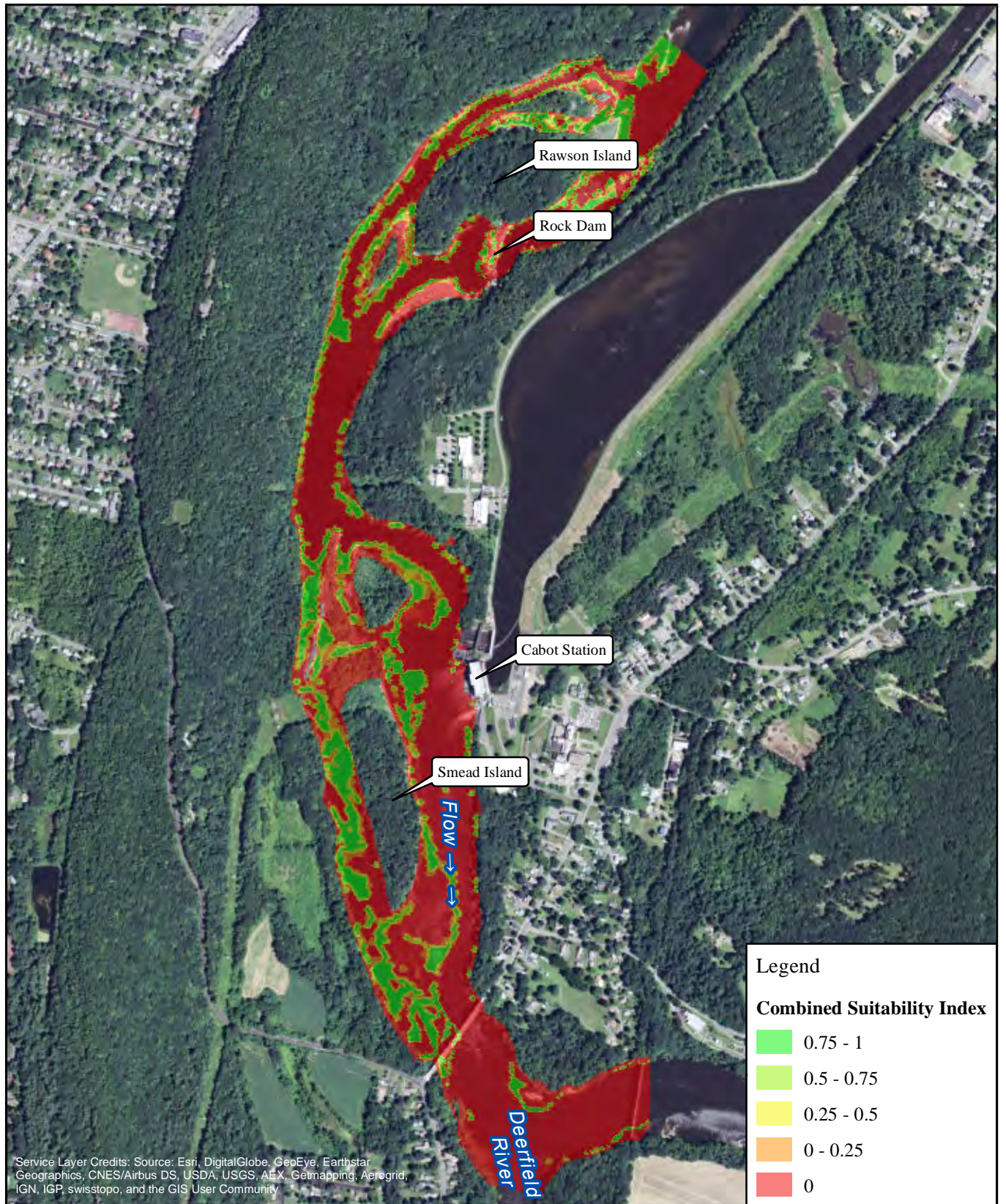
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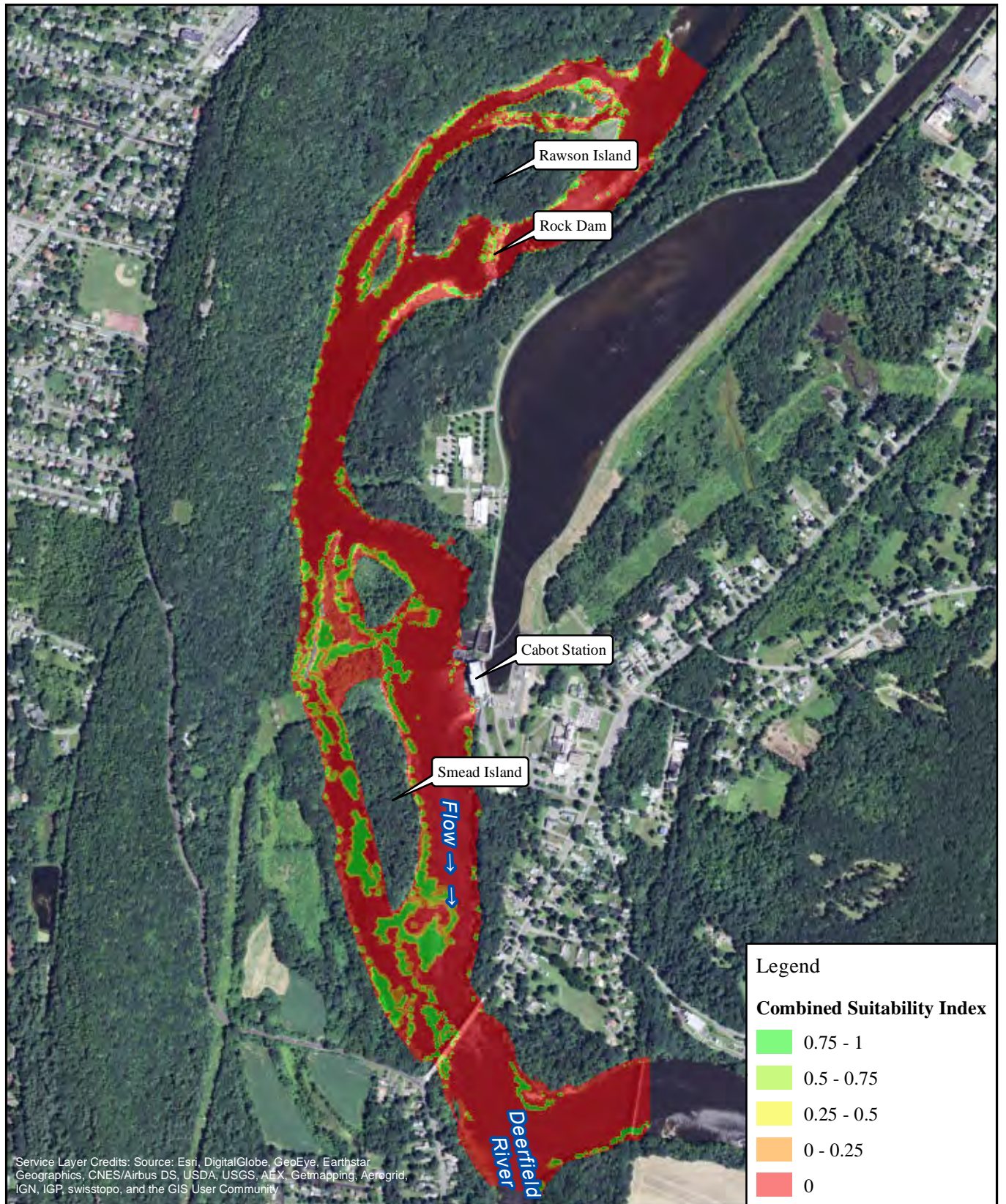
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RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Shallow Slow Guild-
Cabot Flow: 2500 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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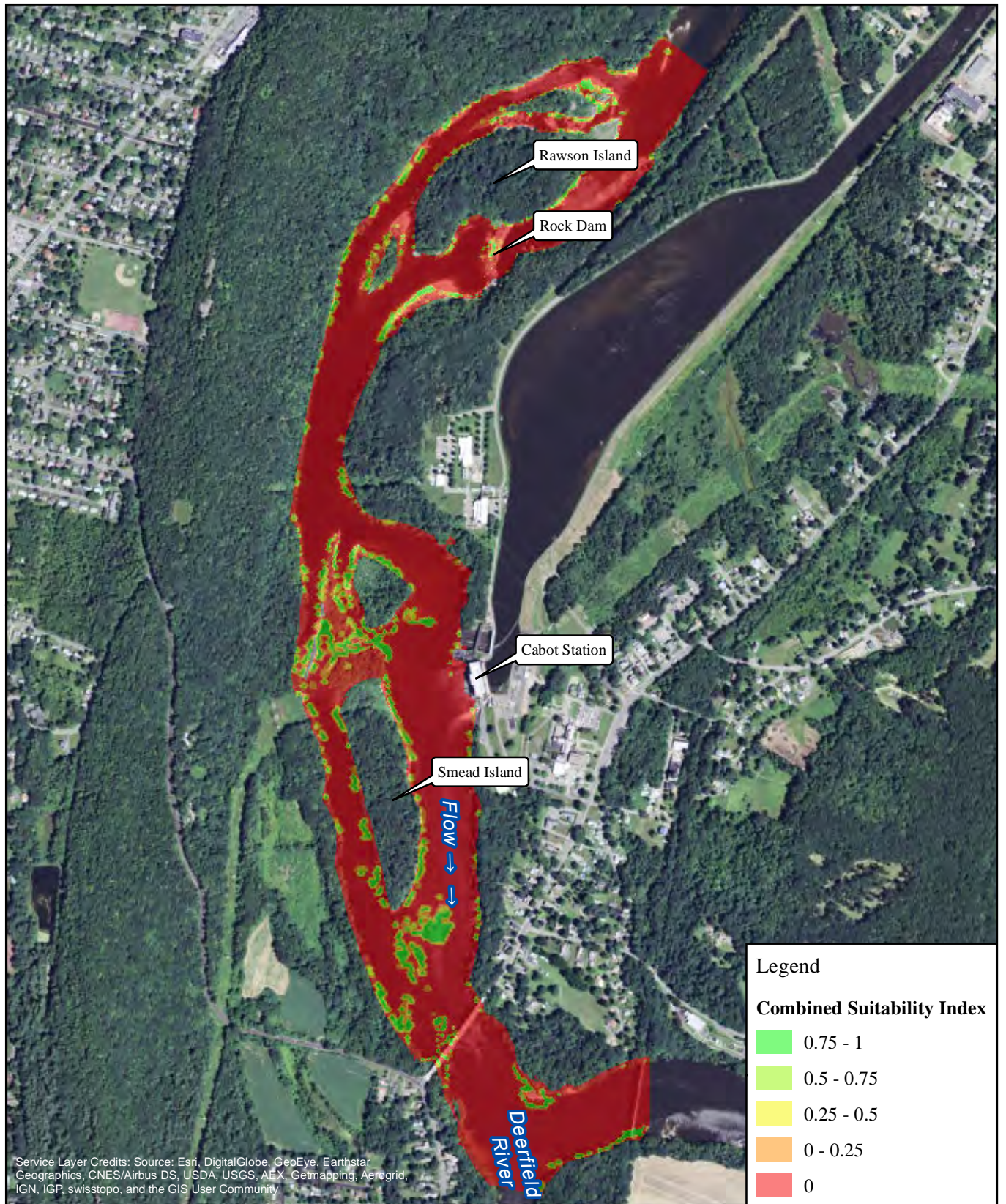
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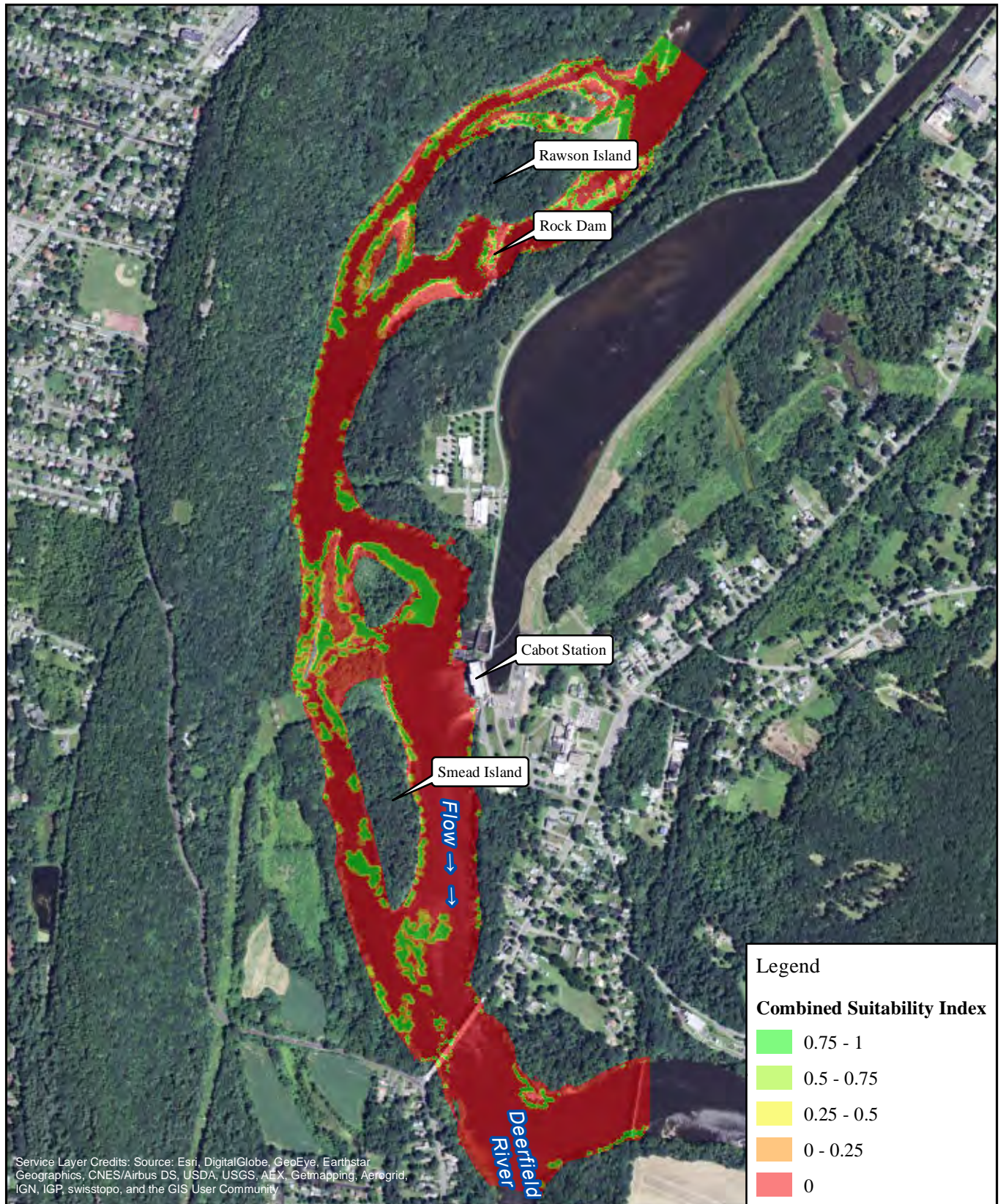
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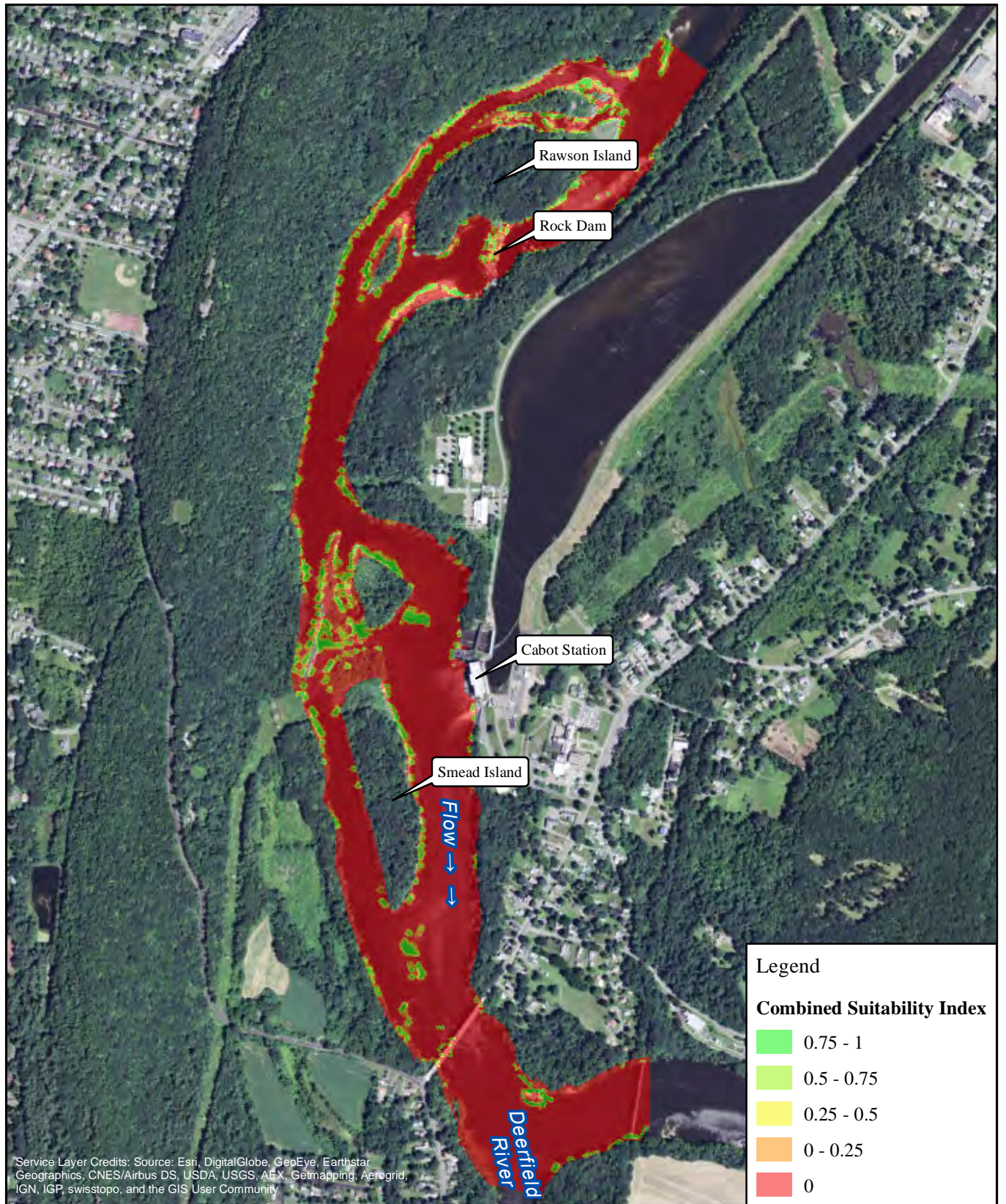
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RELICENSING STUDY 3.3.1

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Feet

Shallow Slow Guild-
Cabot Flow: 7000 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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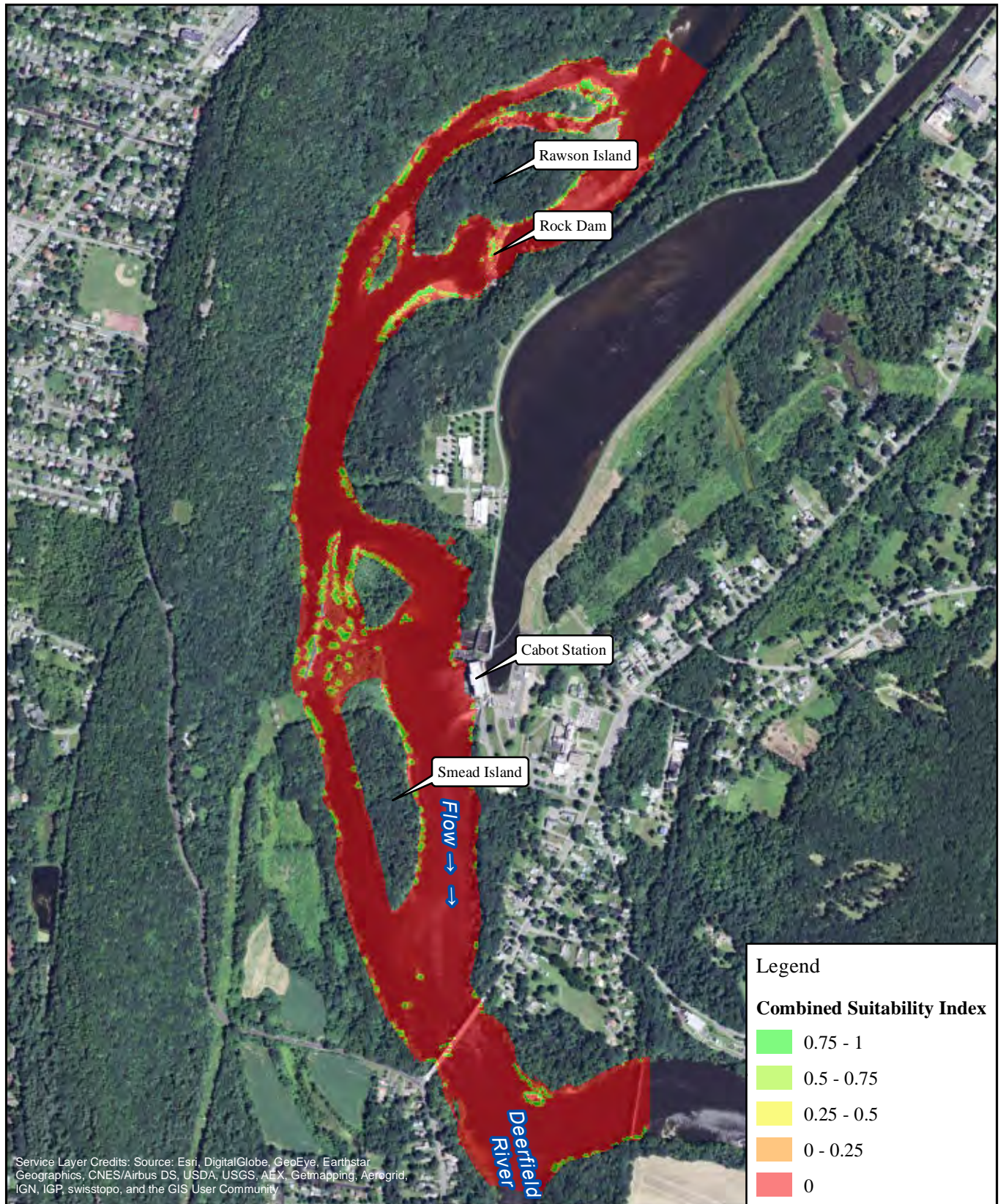
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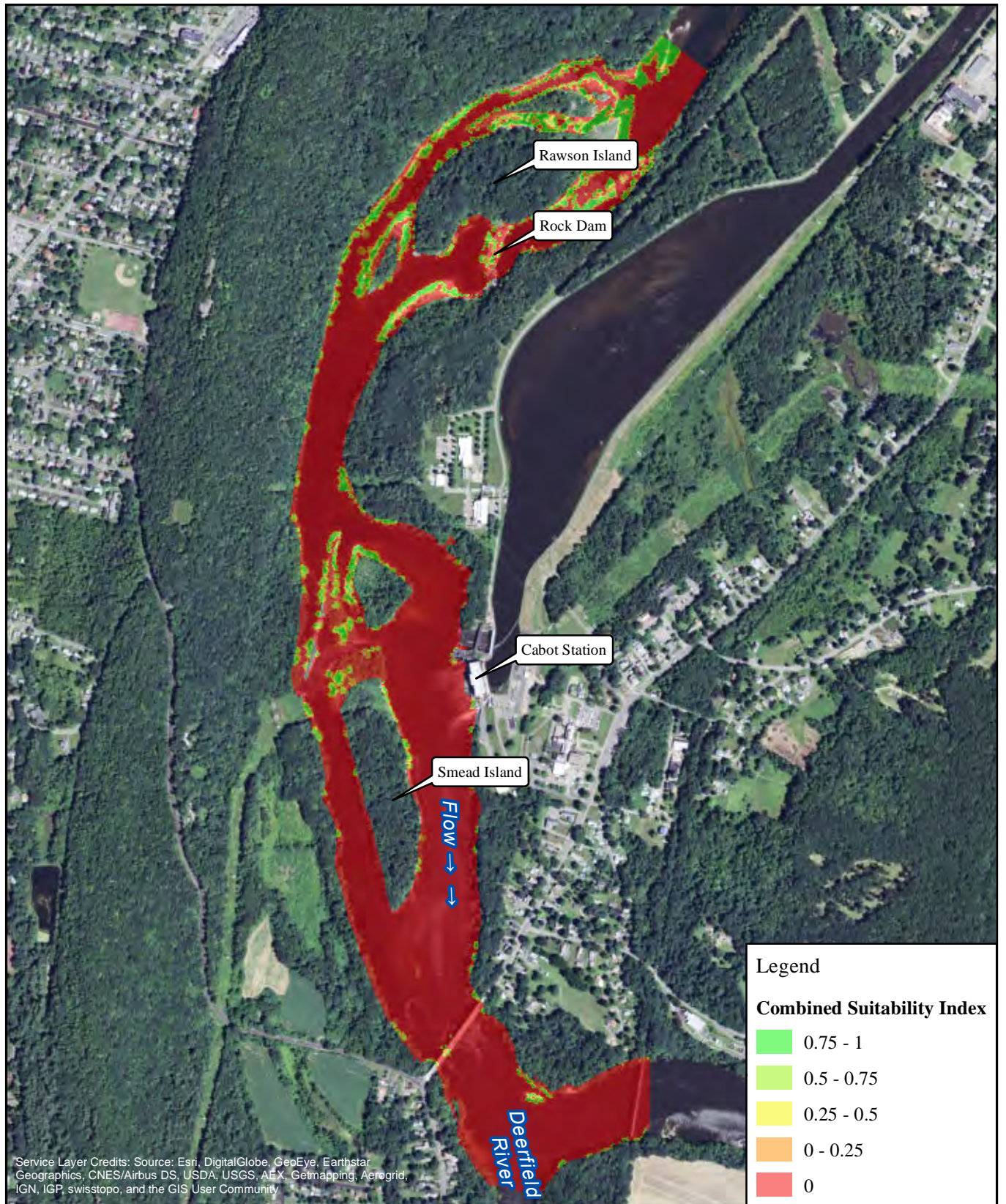
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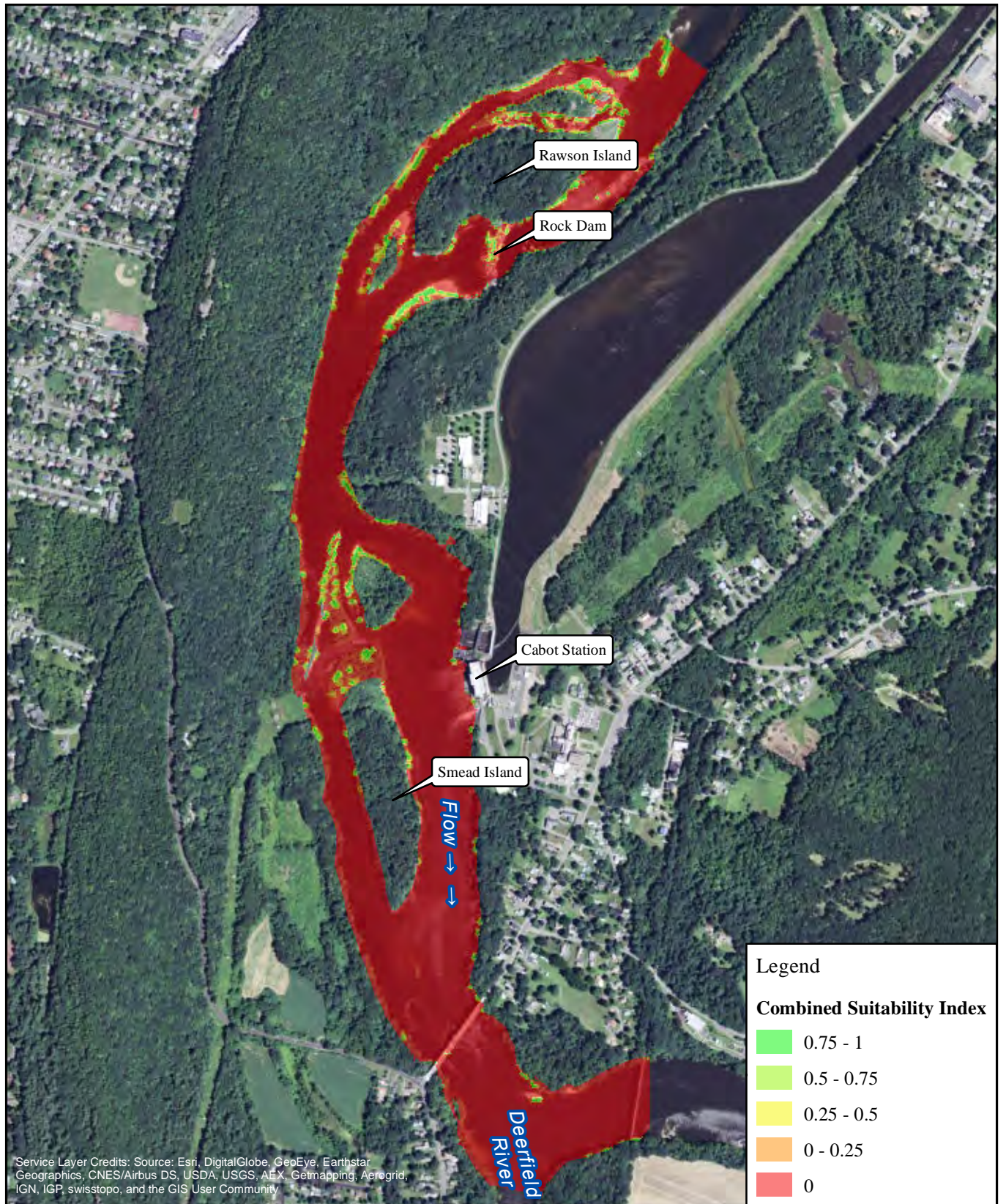
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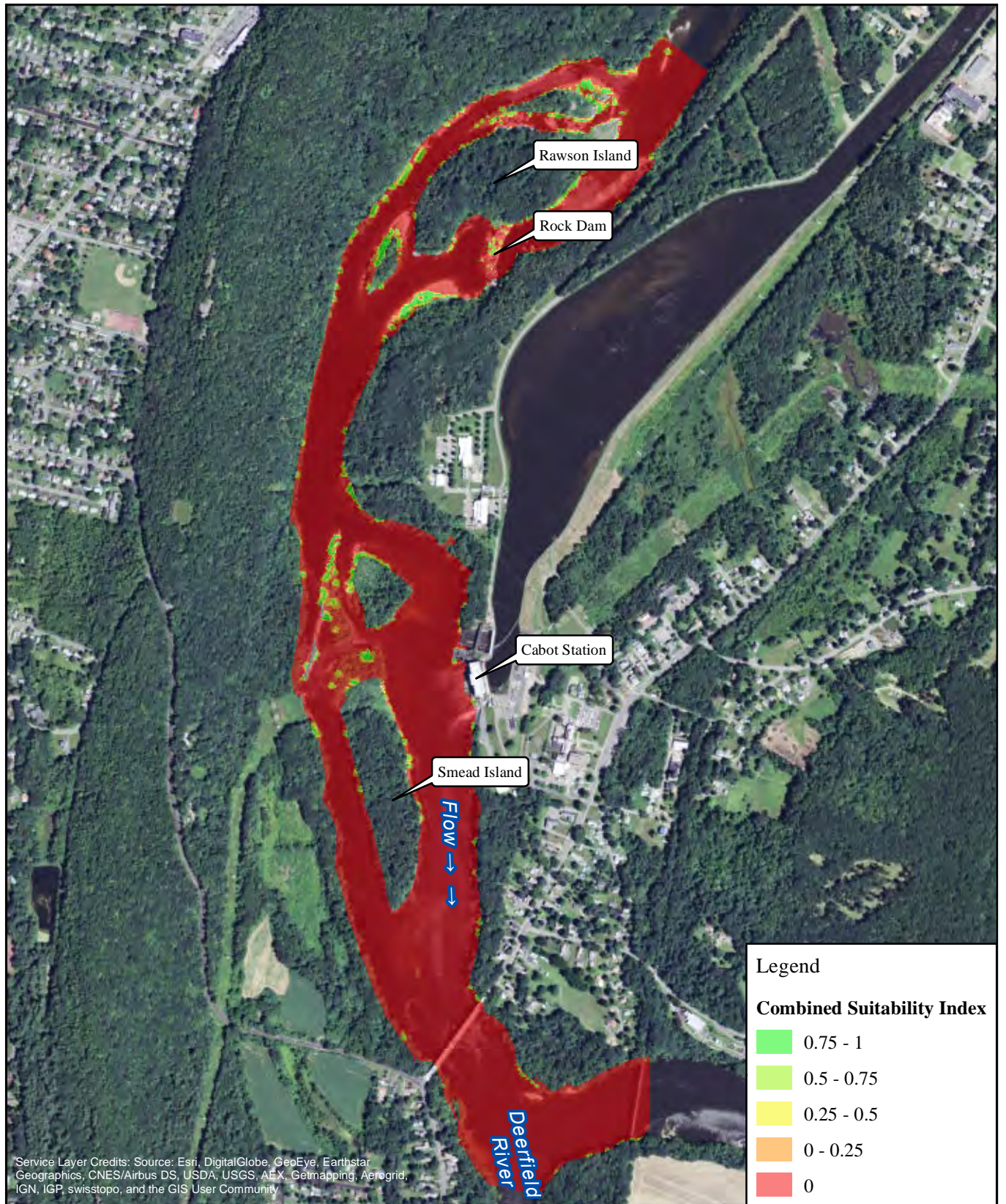
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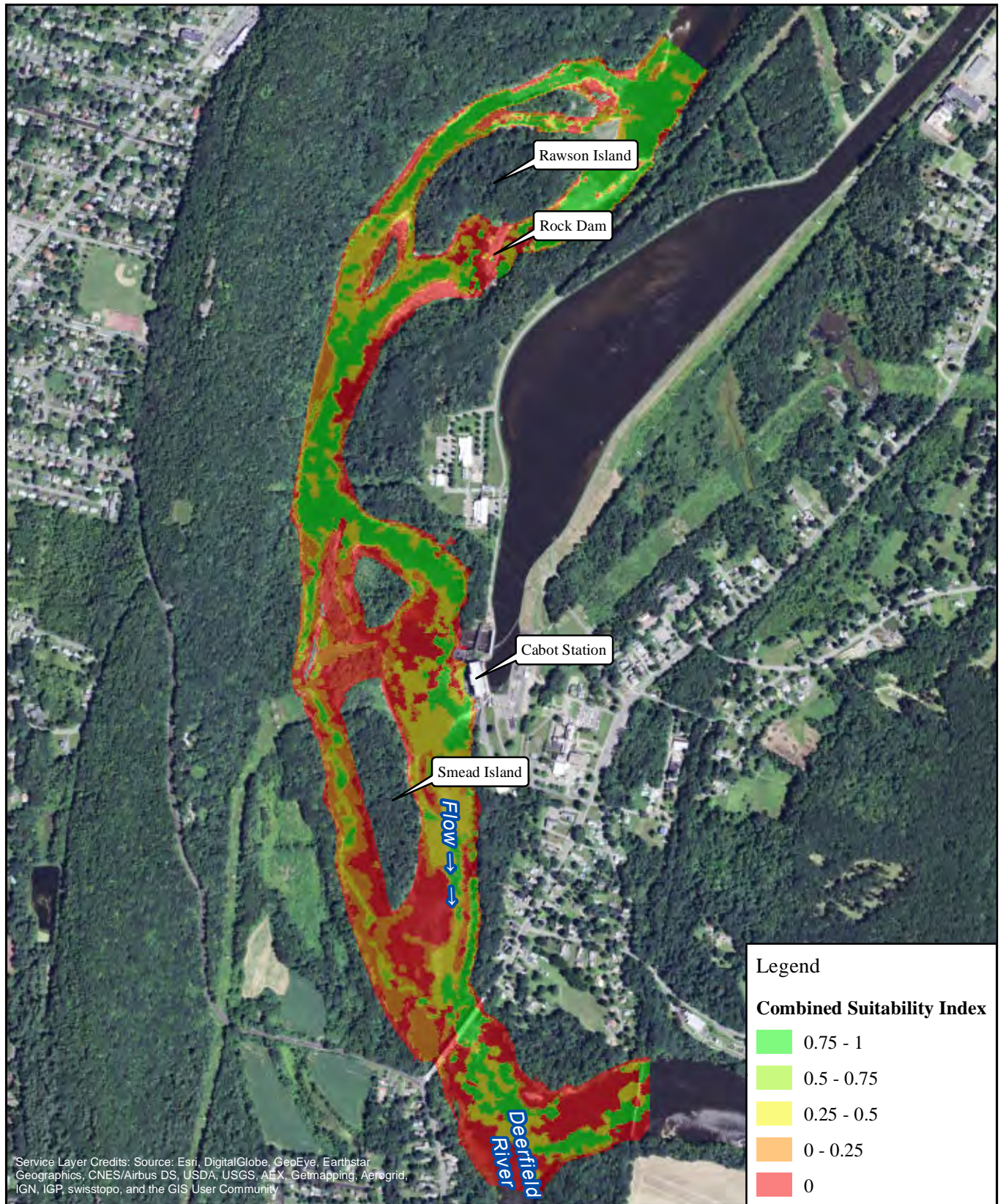
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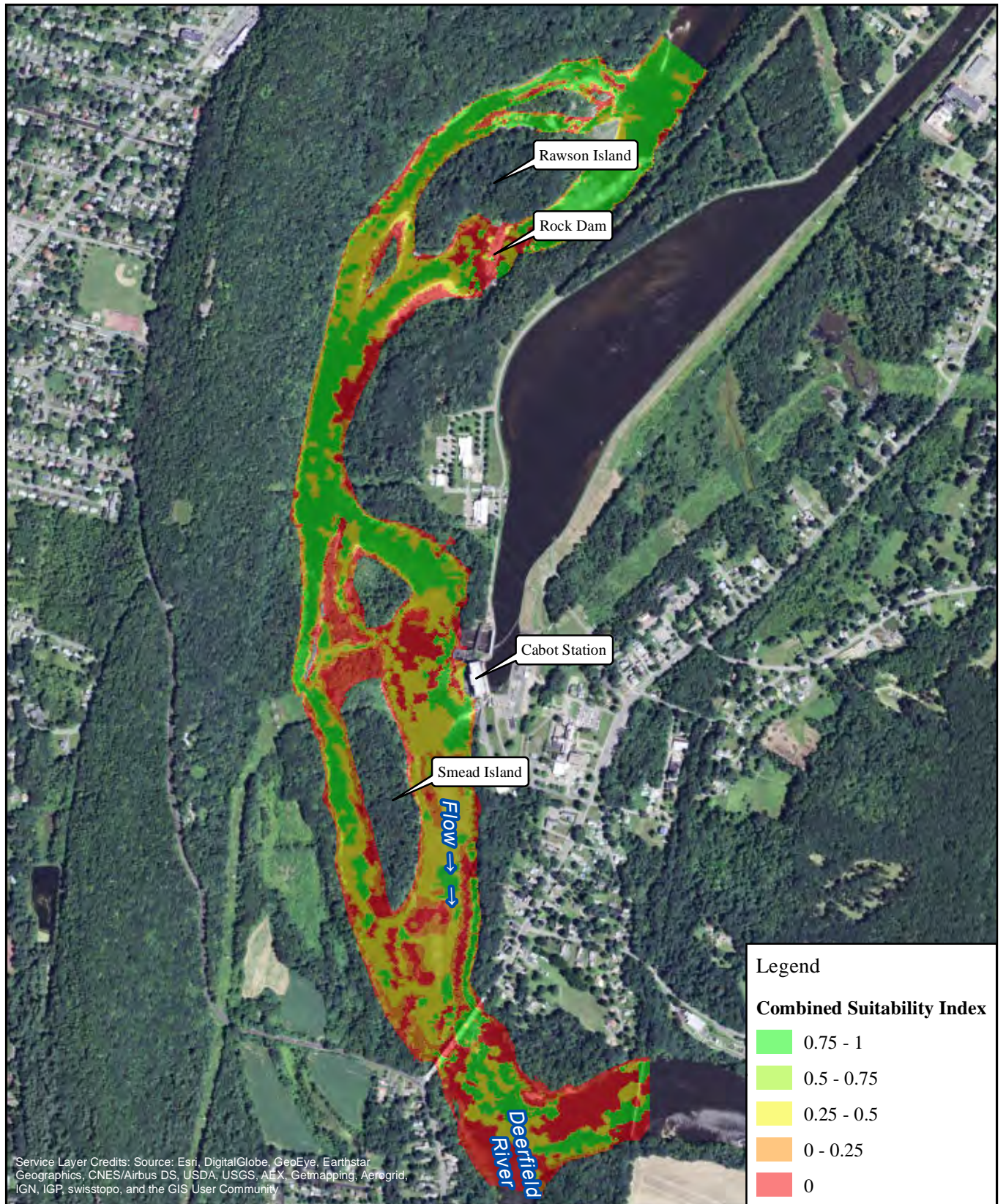
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Feet

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

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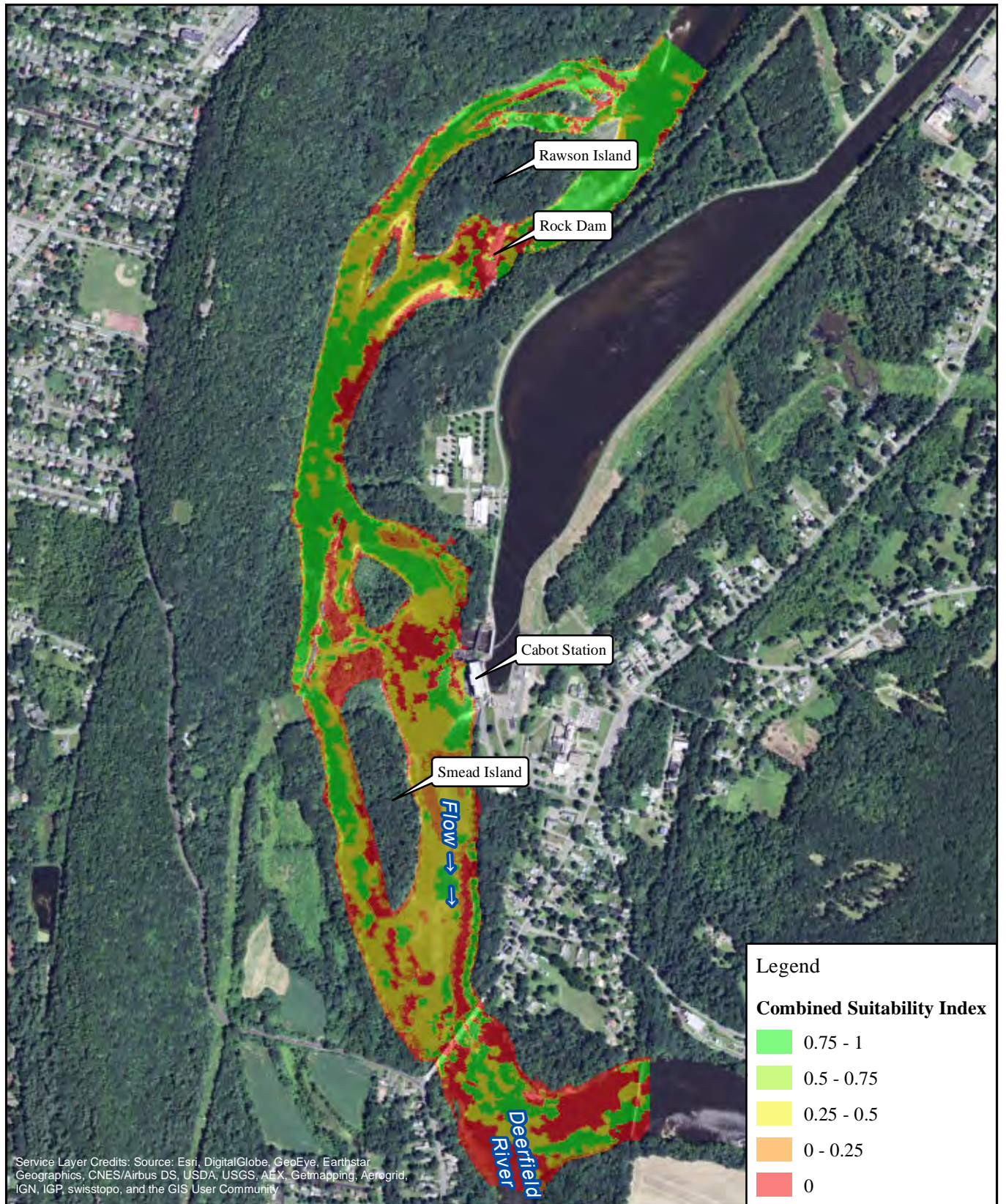
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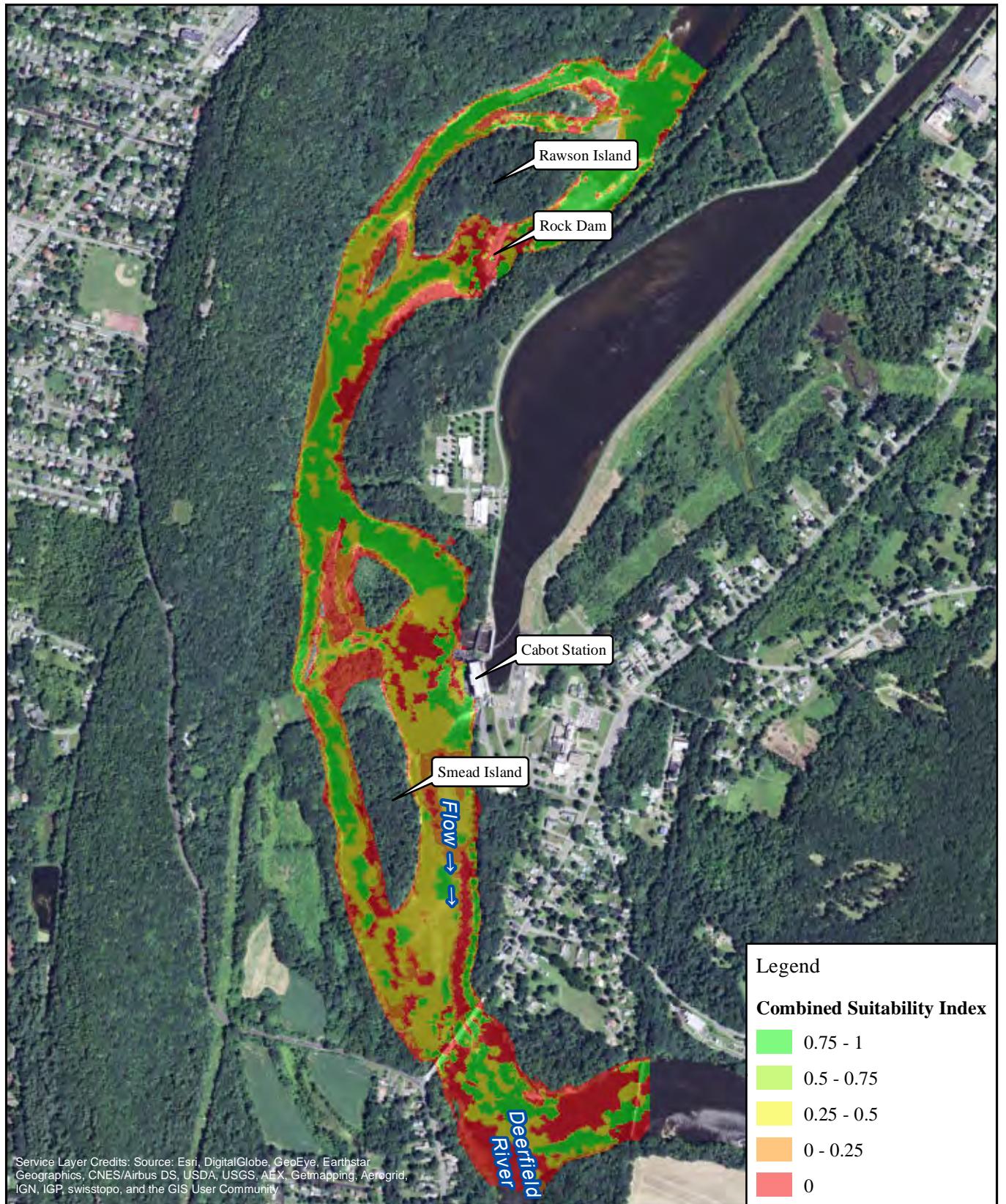
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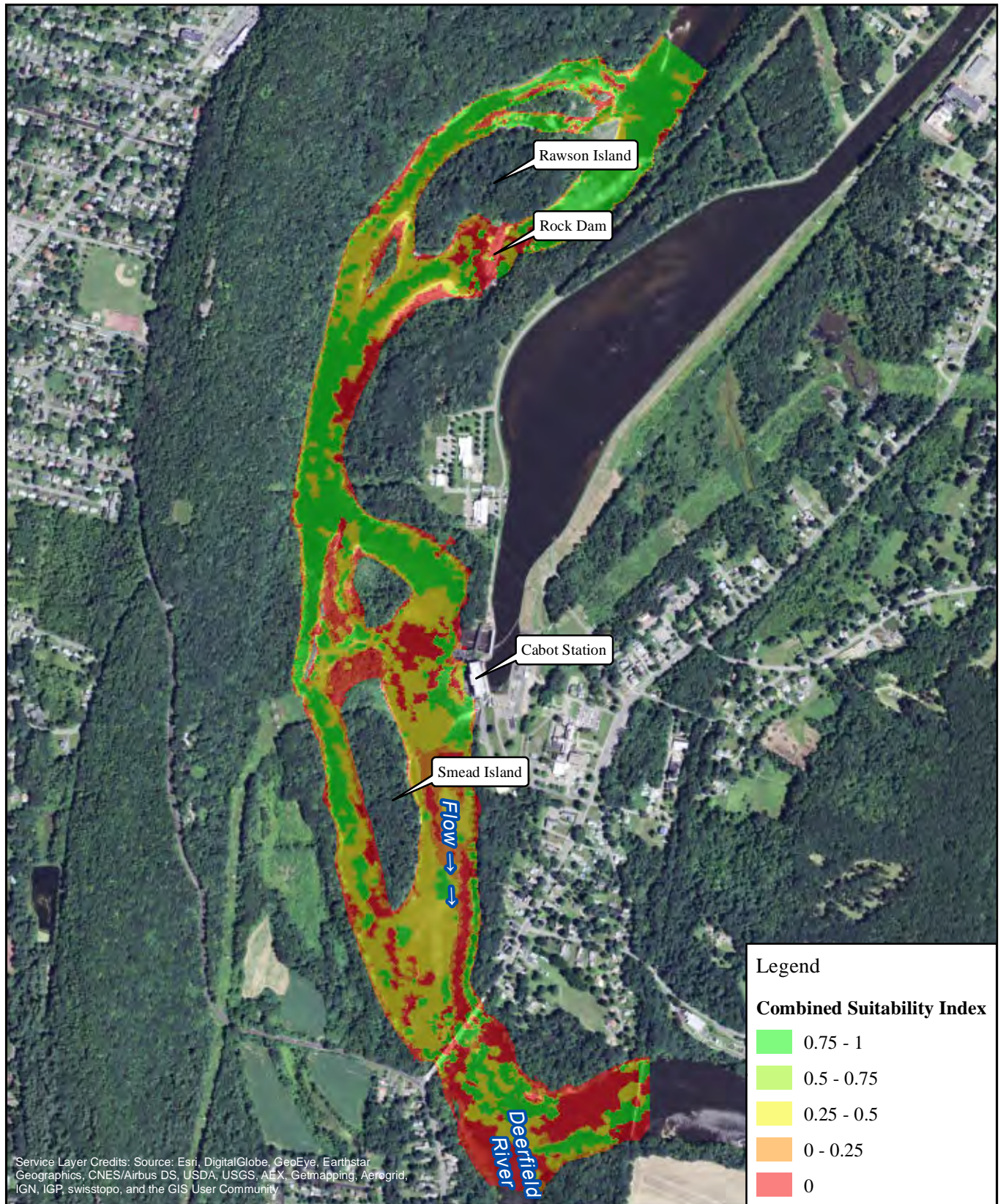
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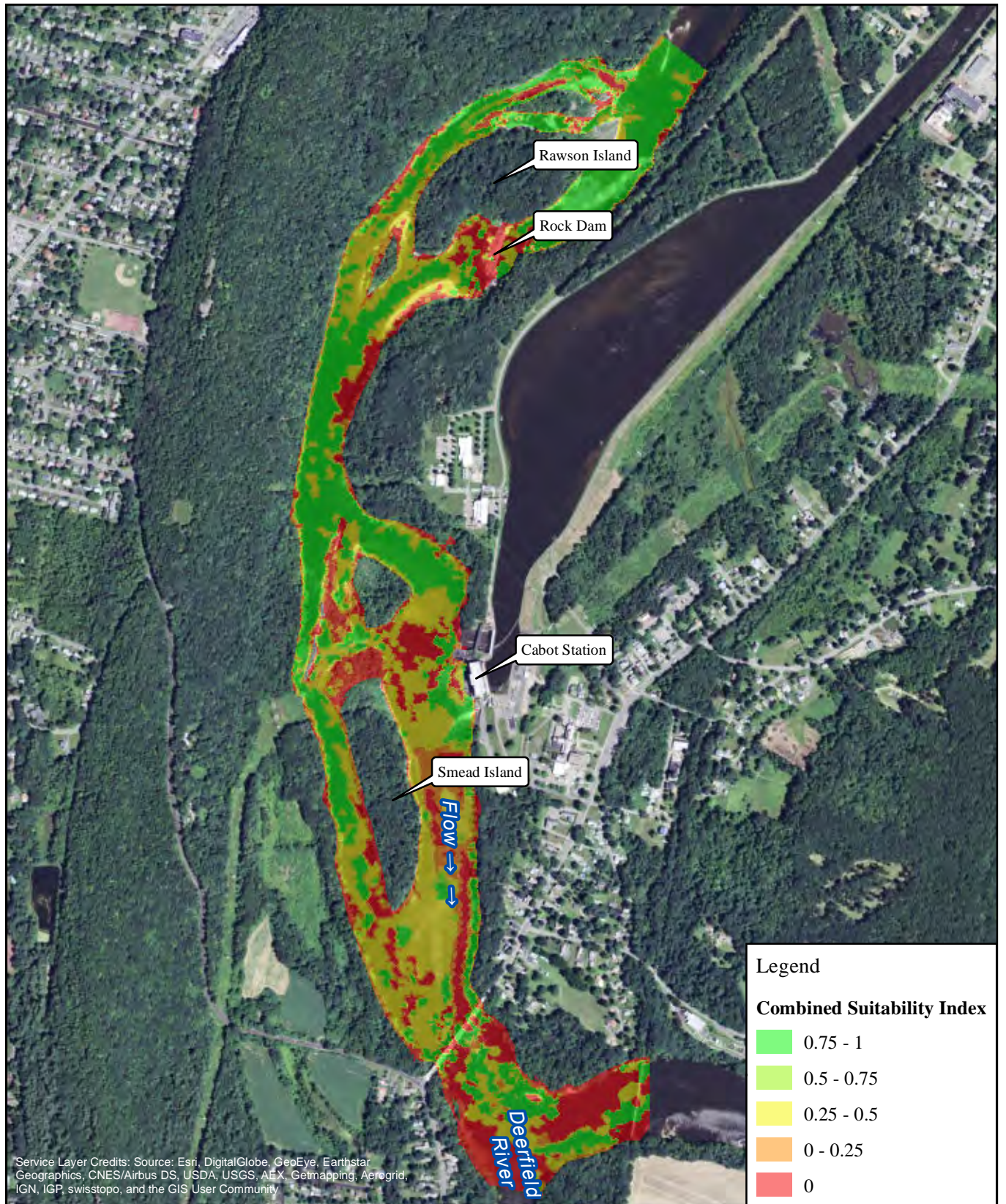
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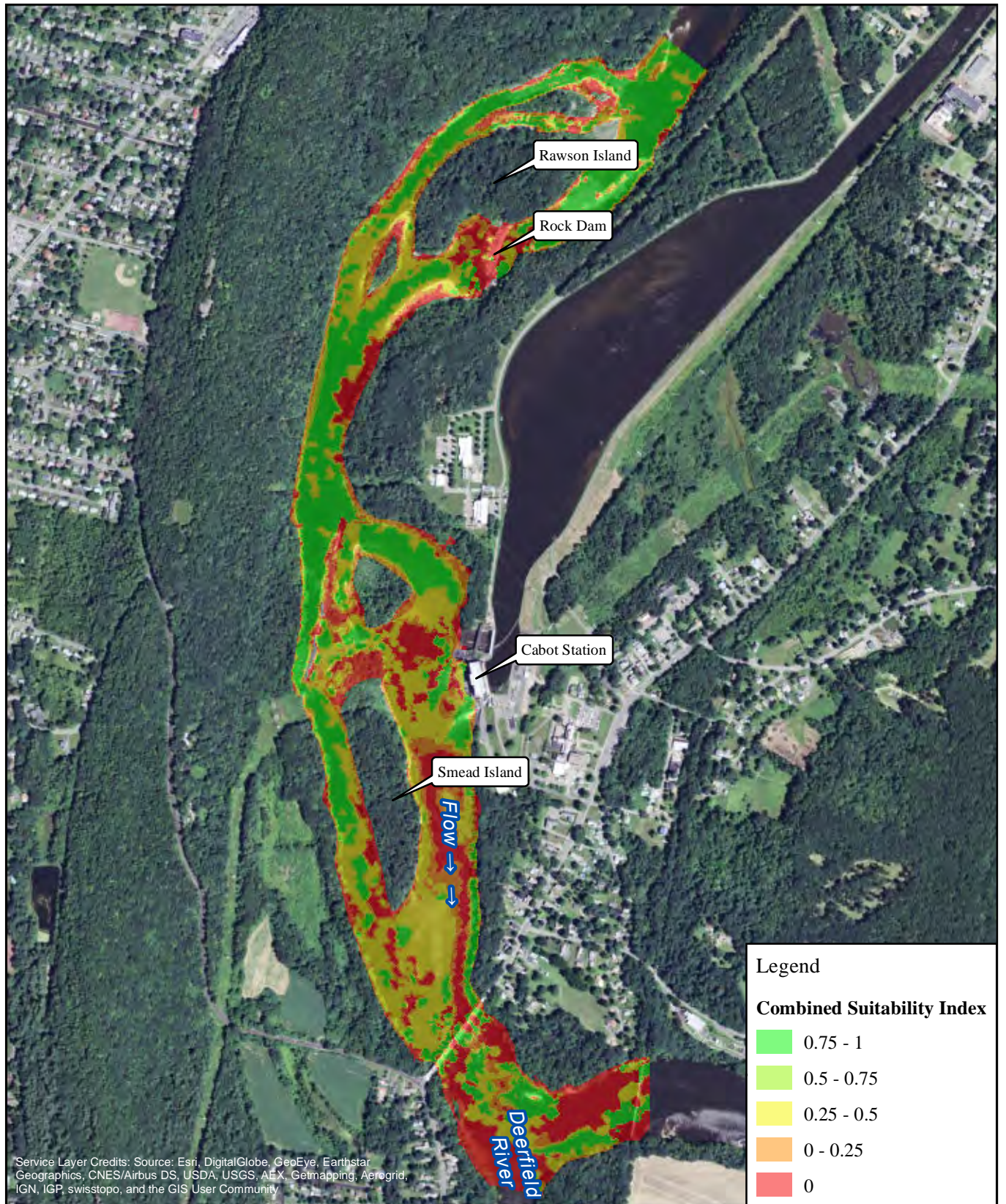
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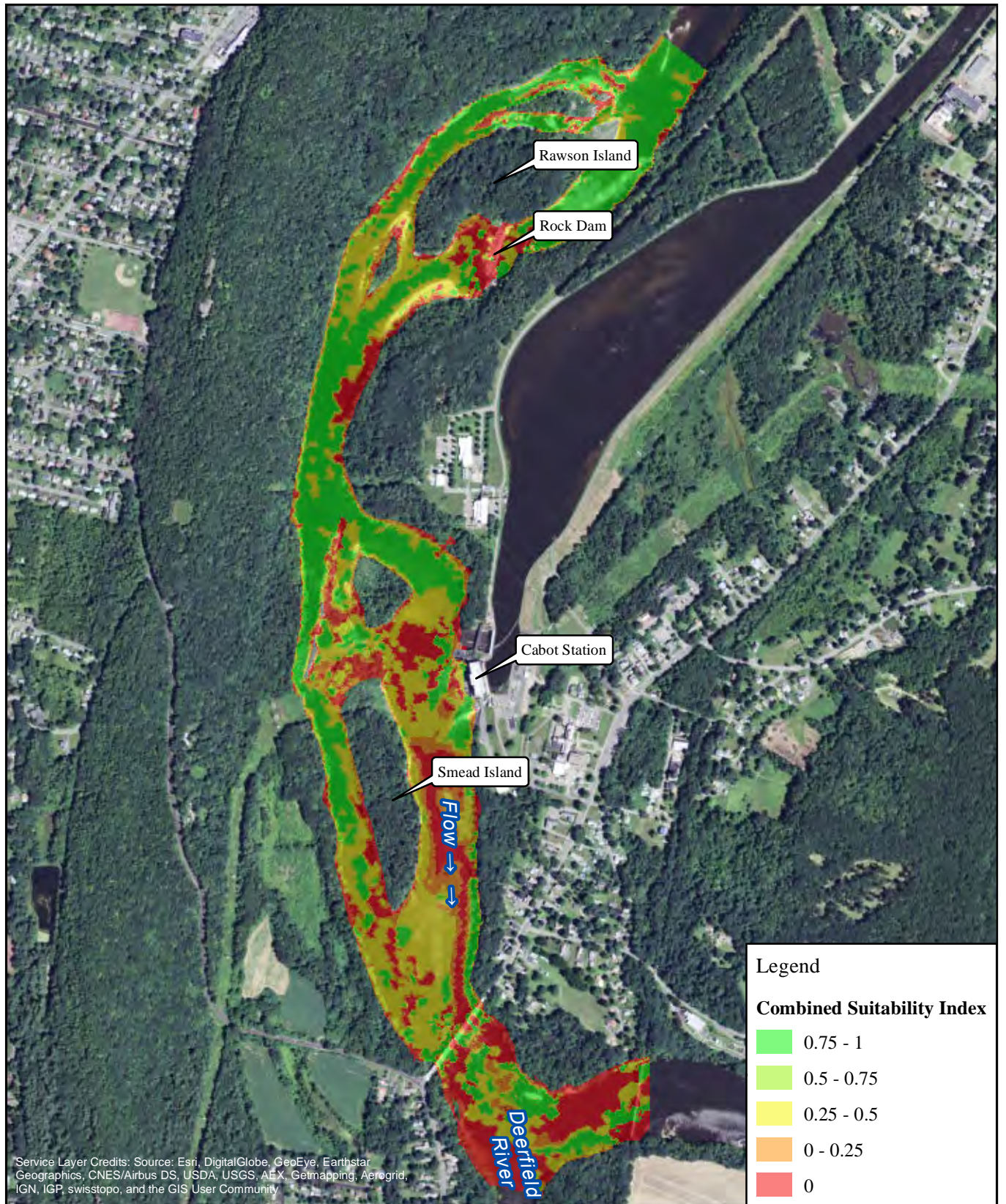
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Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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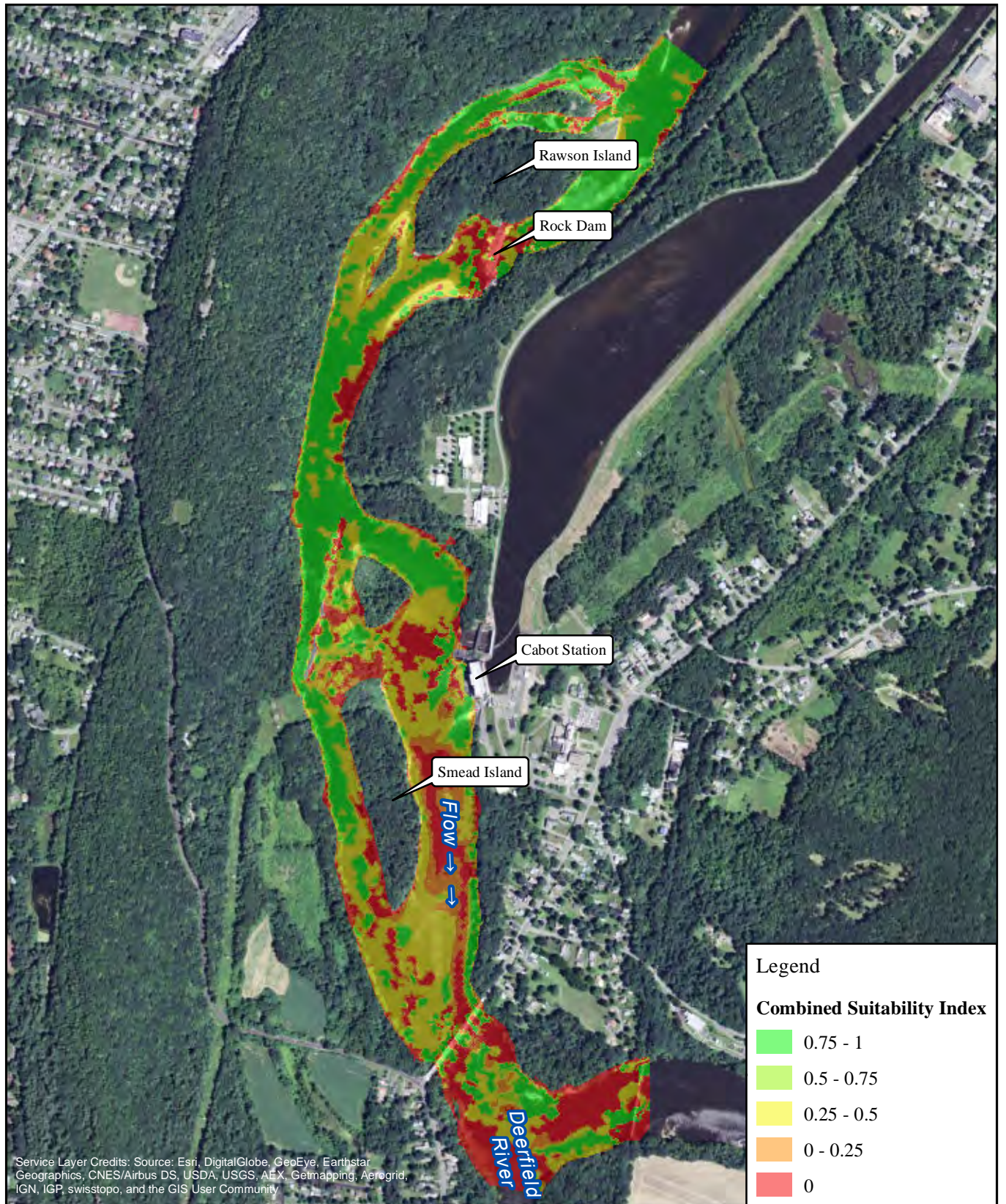
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Shortnose Sturgeon-Egg-Embryo
Cabot Flow: 14000 cfs
Bypass Flow: 3000 cfs
Deerfield Flow: 200 cfs

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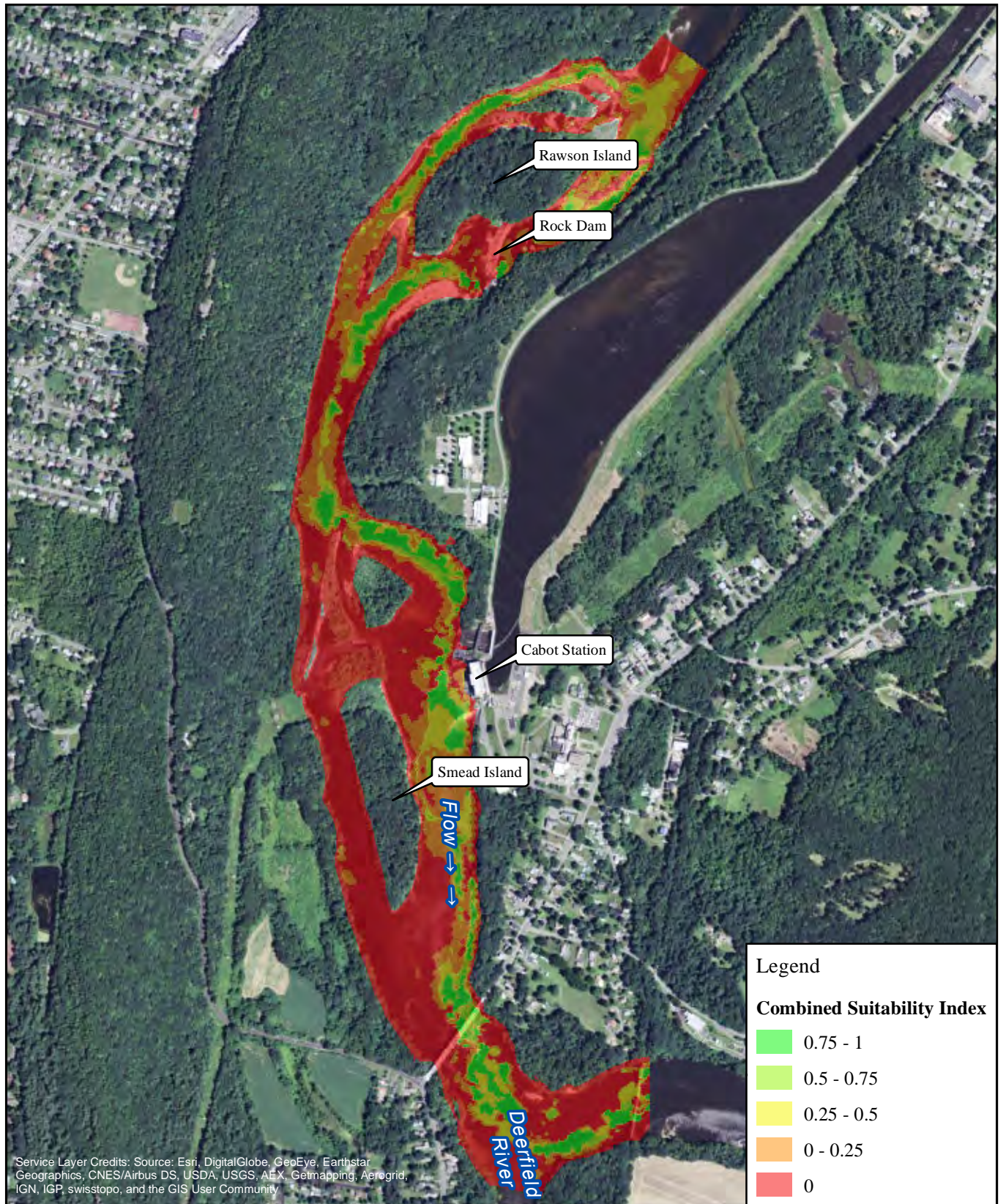
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0 500 1,000 2,000
Feet

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

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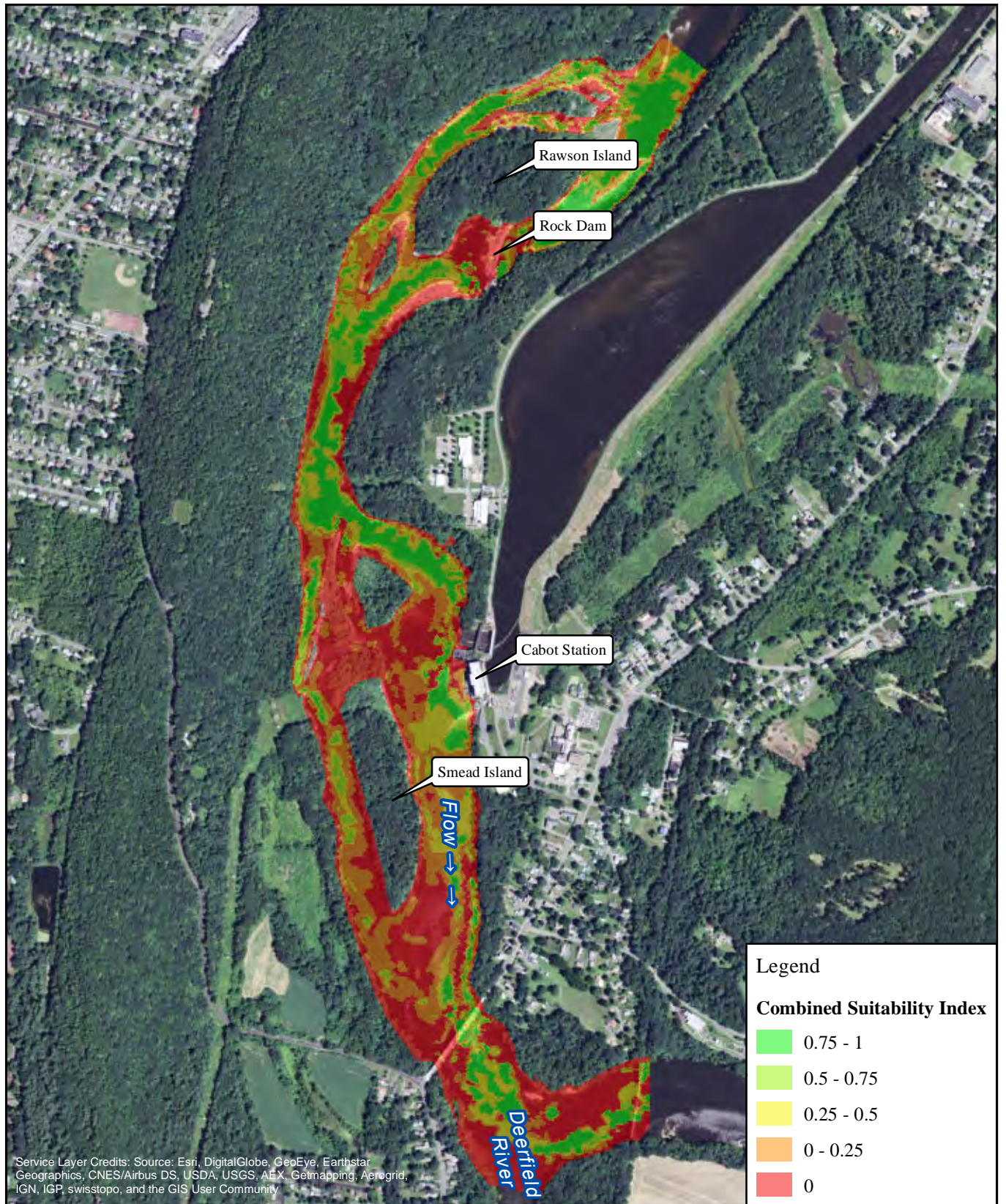
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Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

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

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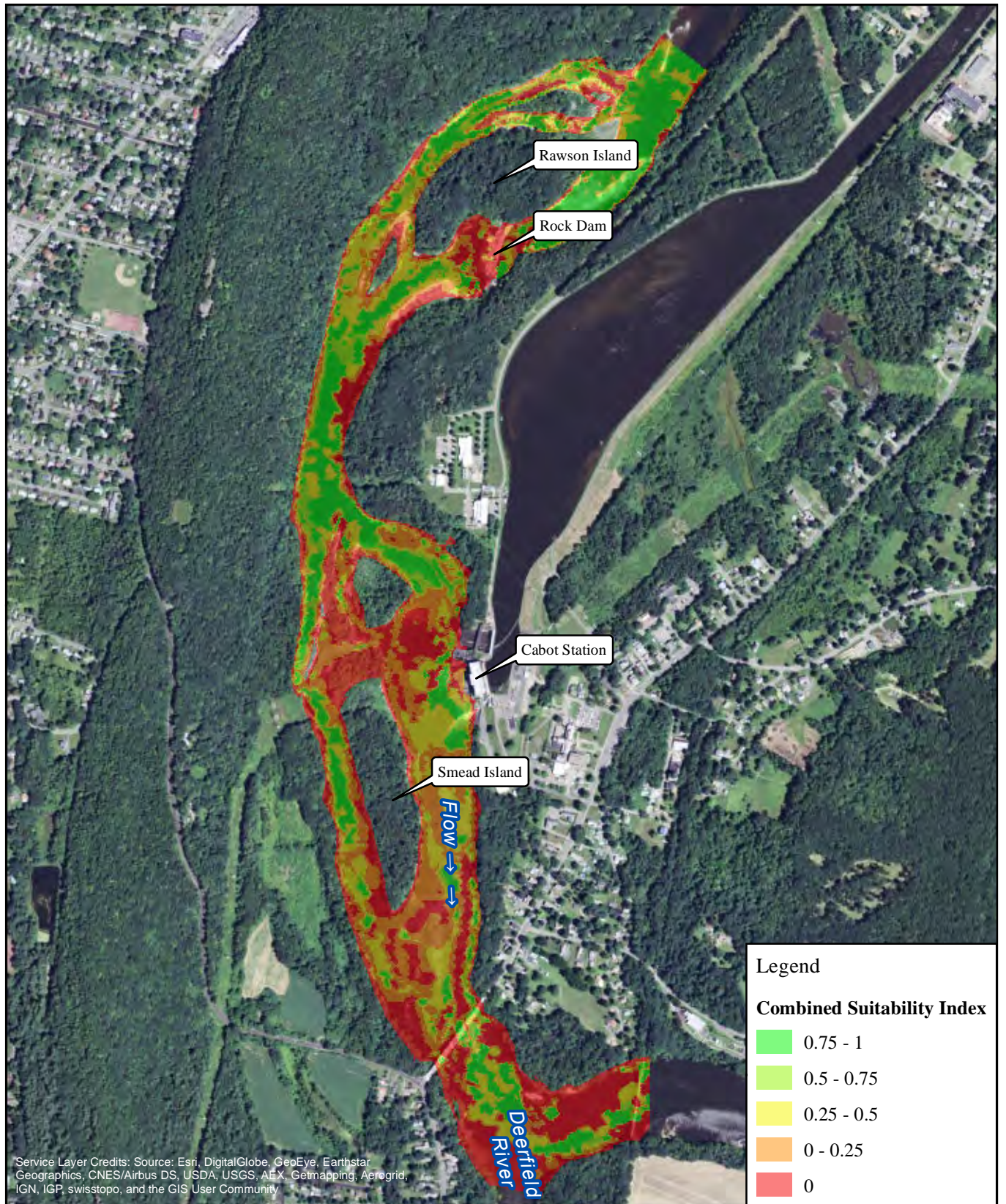
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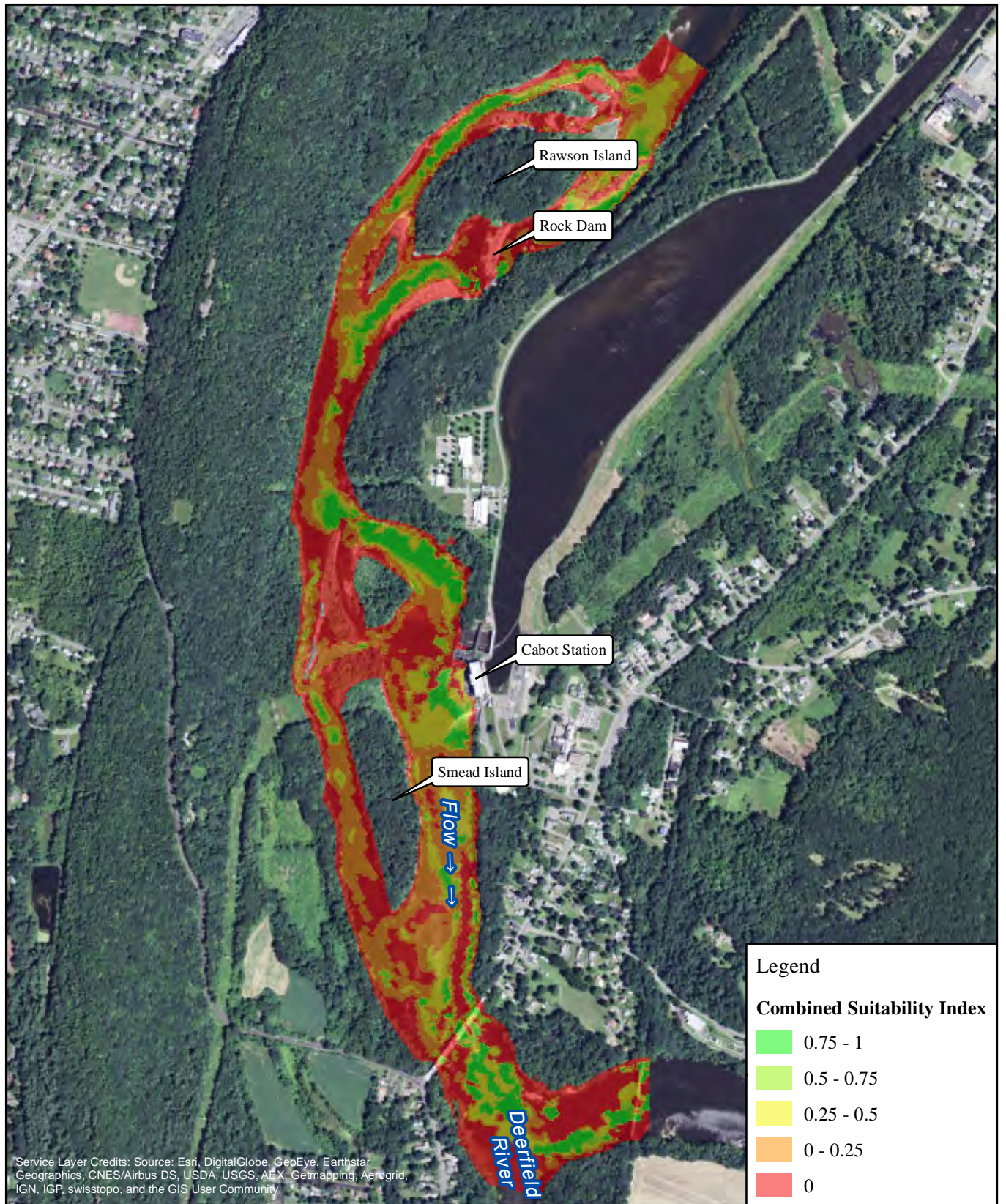
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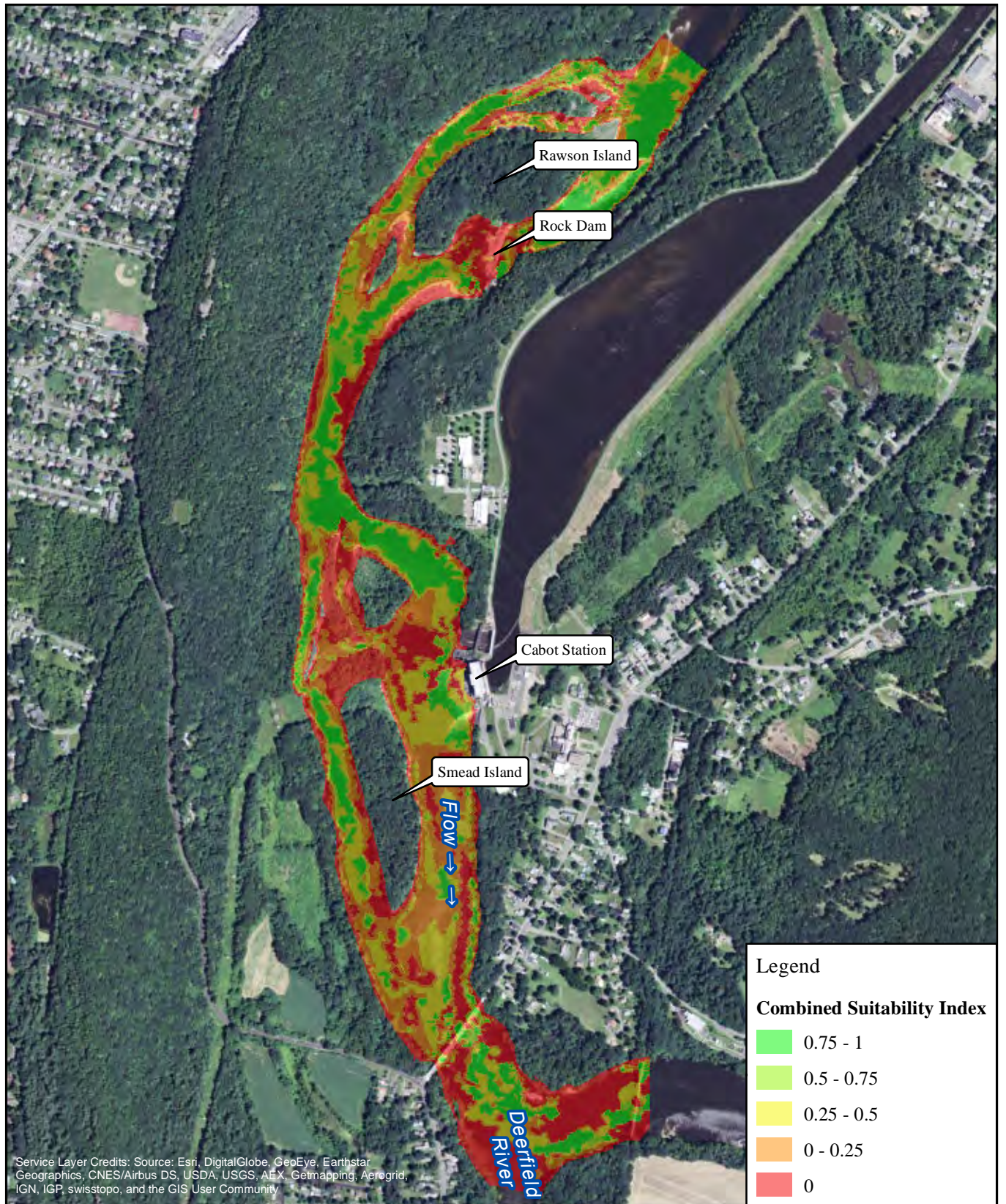
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Feet

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

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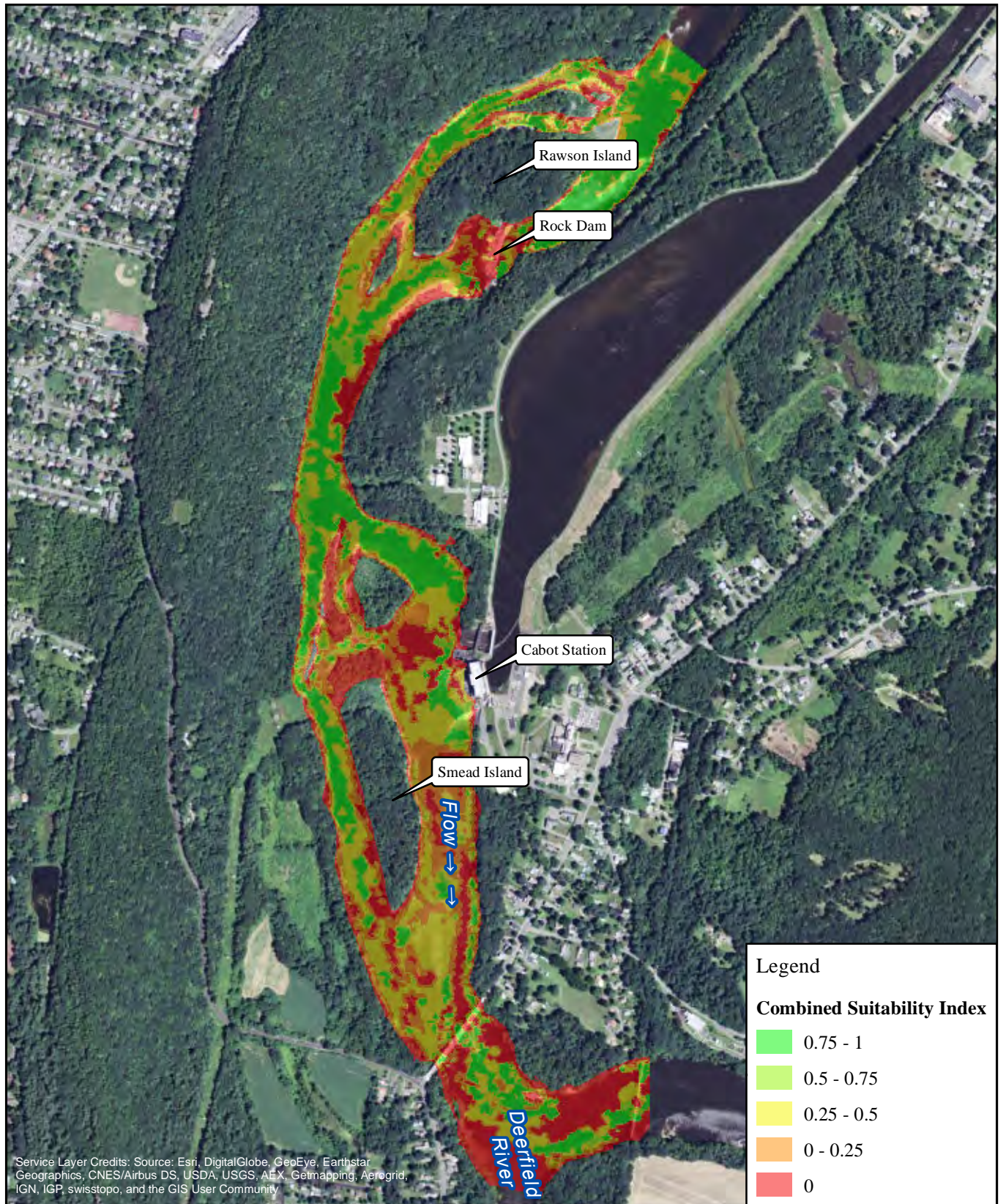
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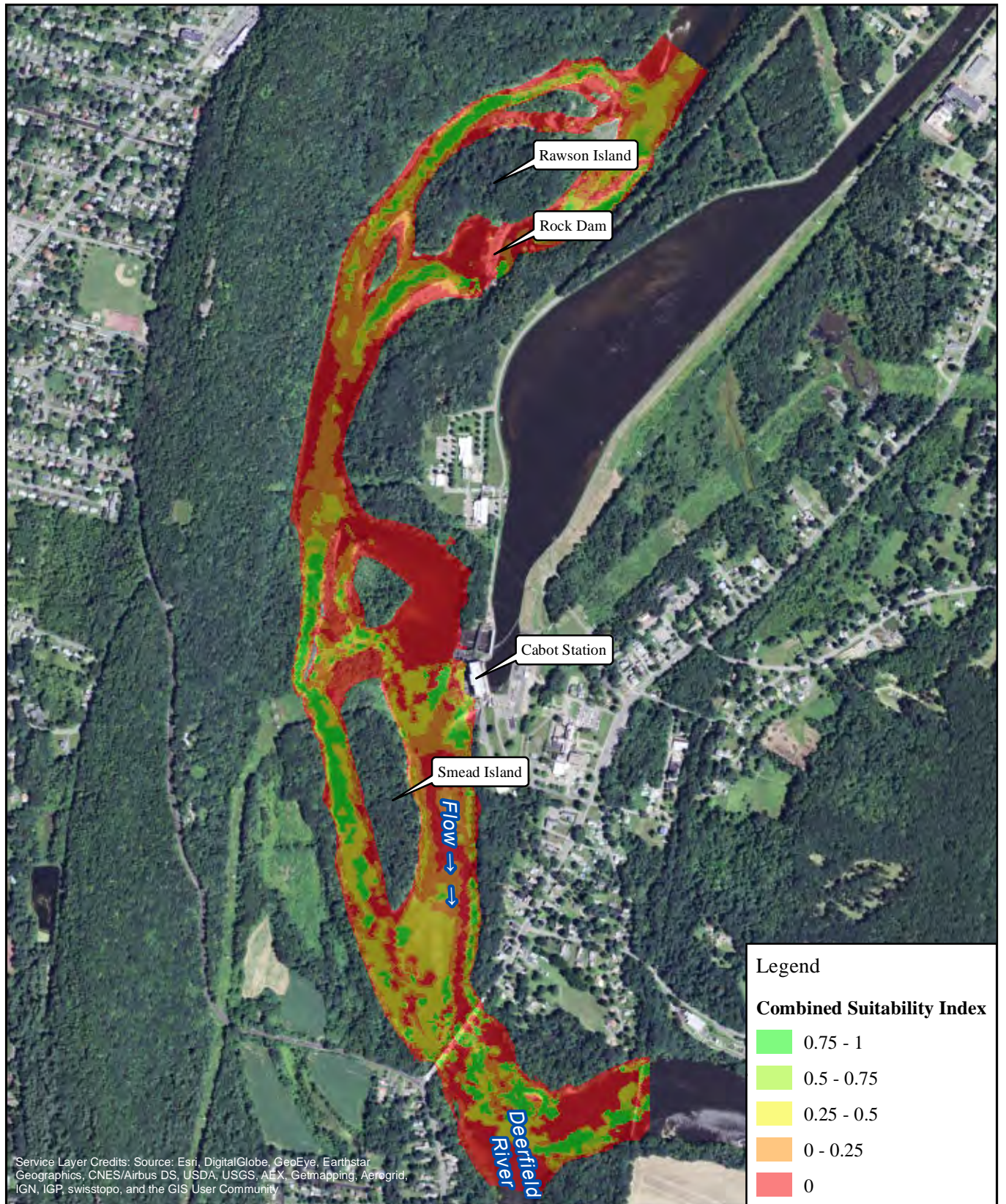
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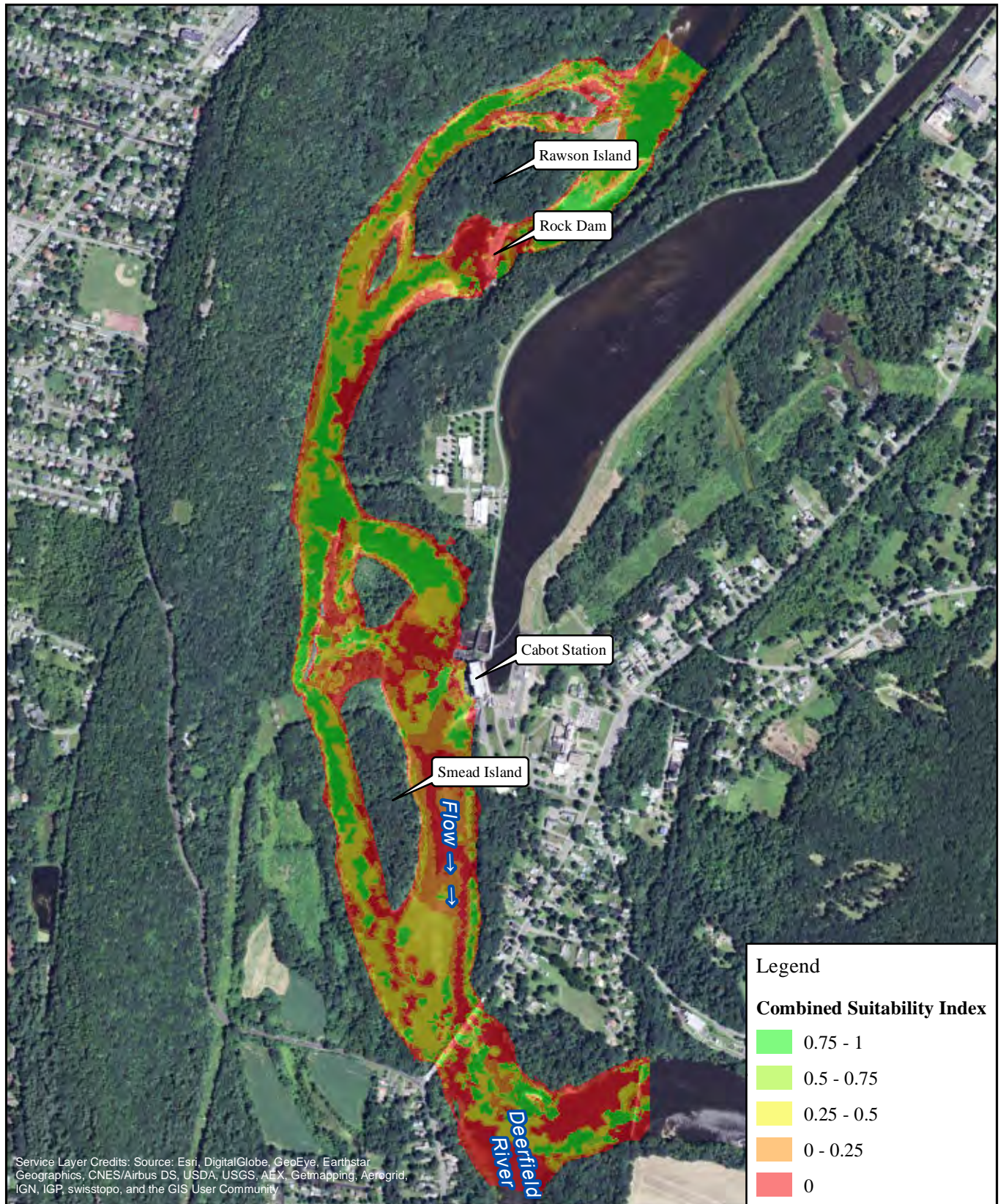
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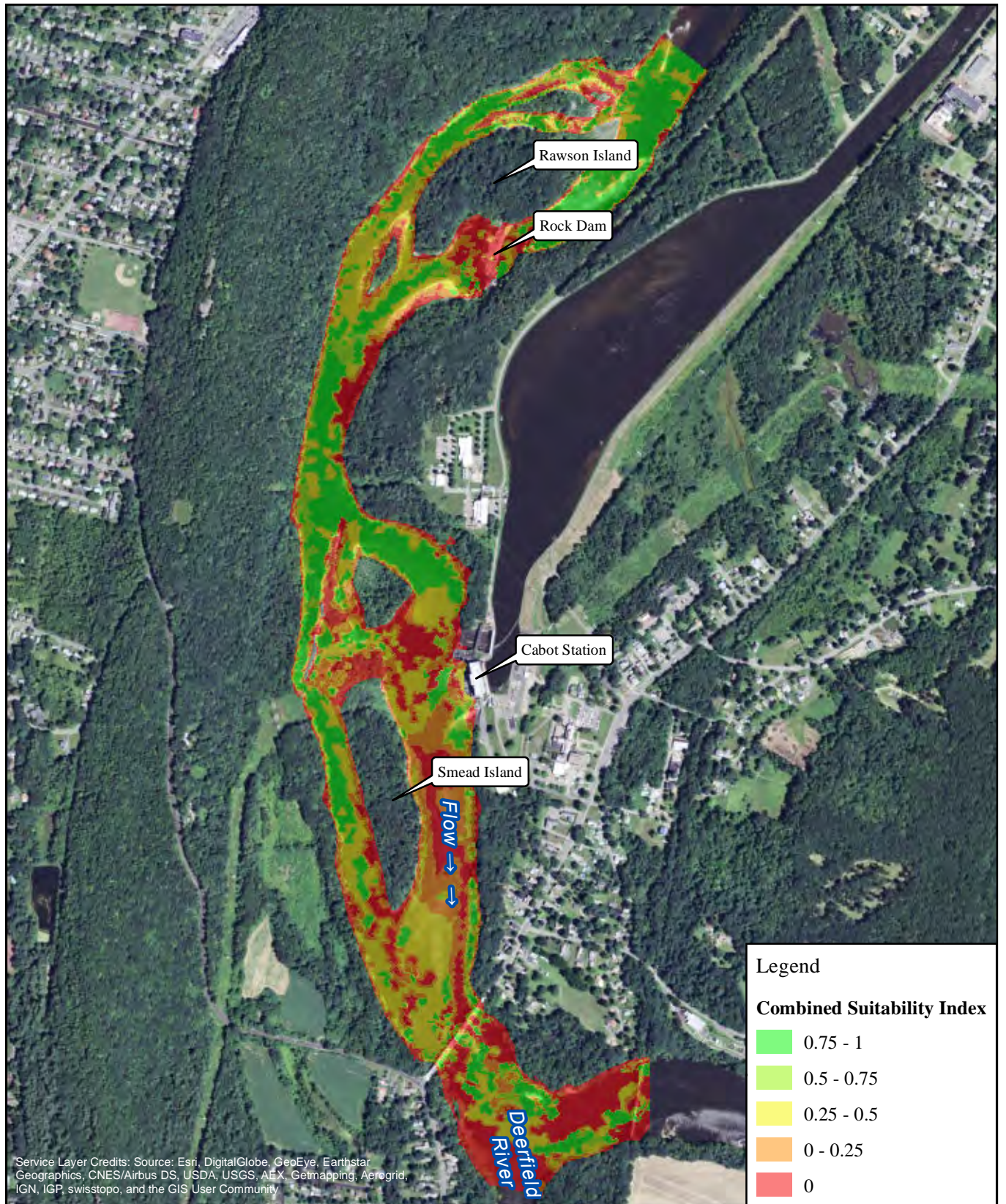
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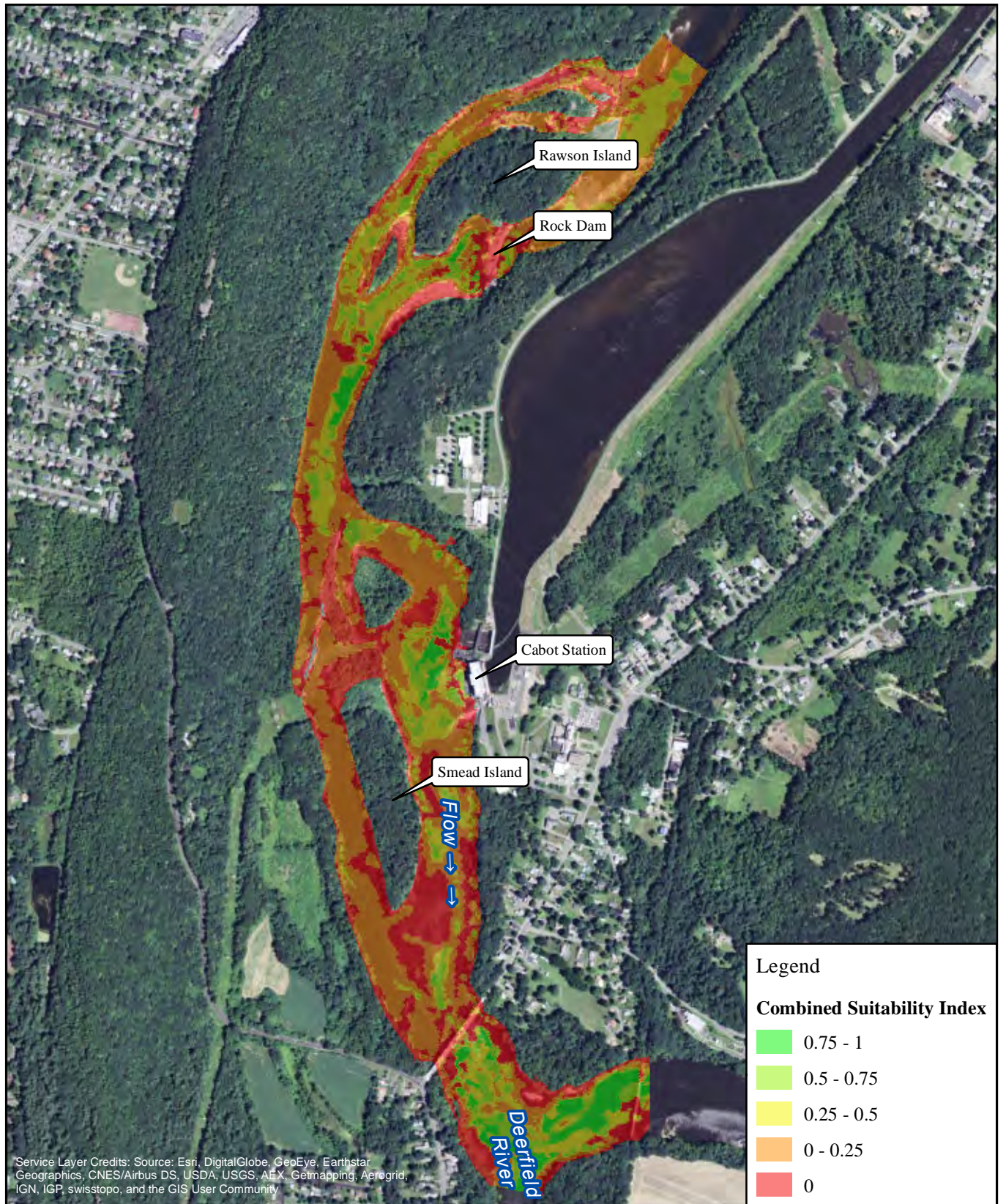
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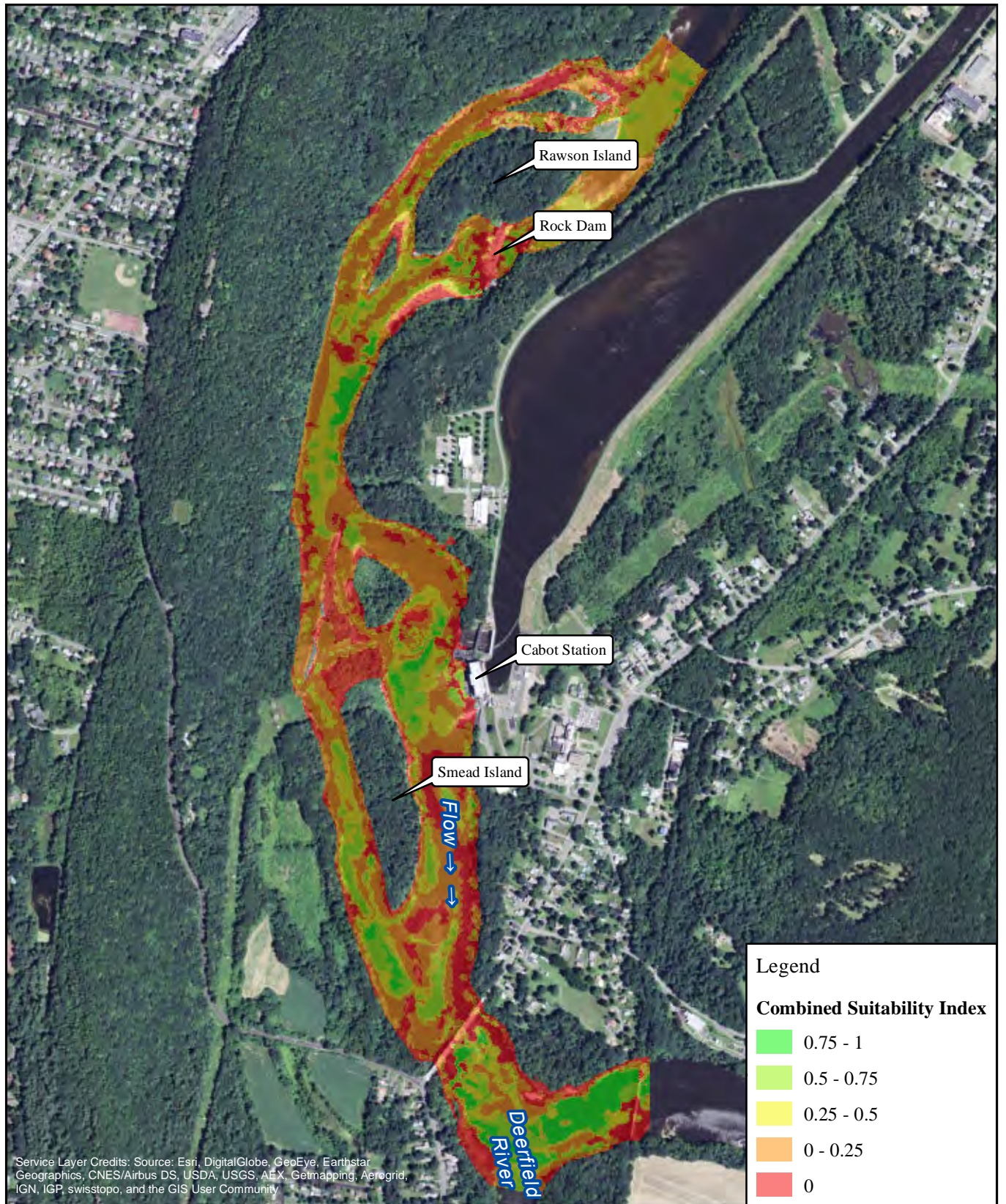
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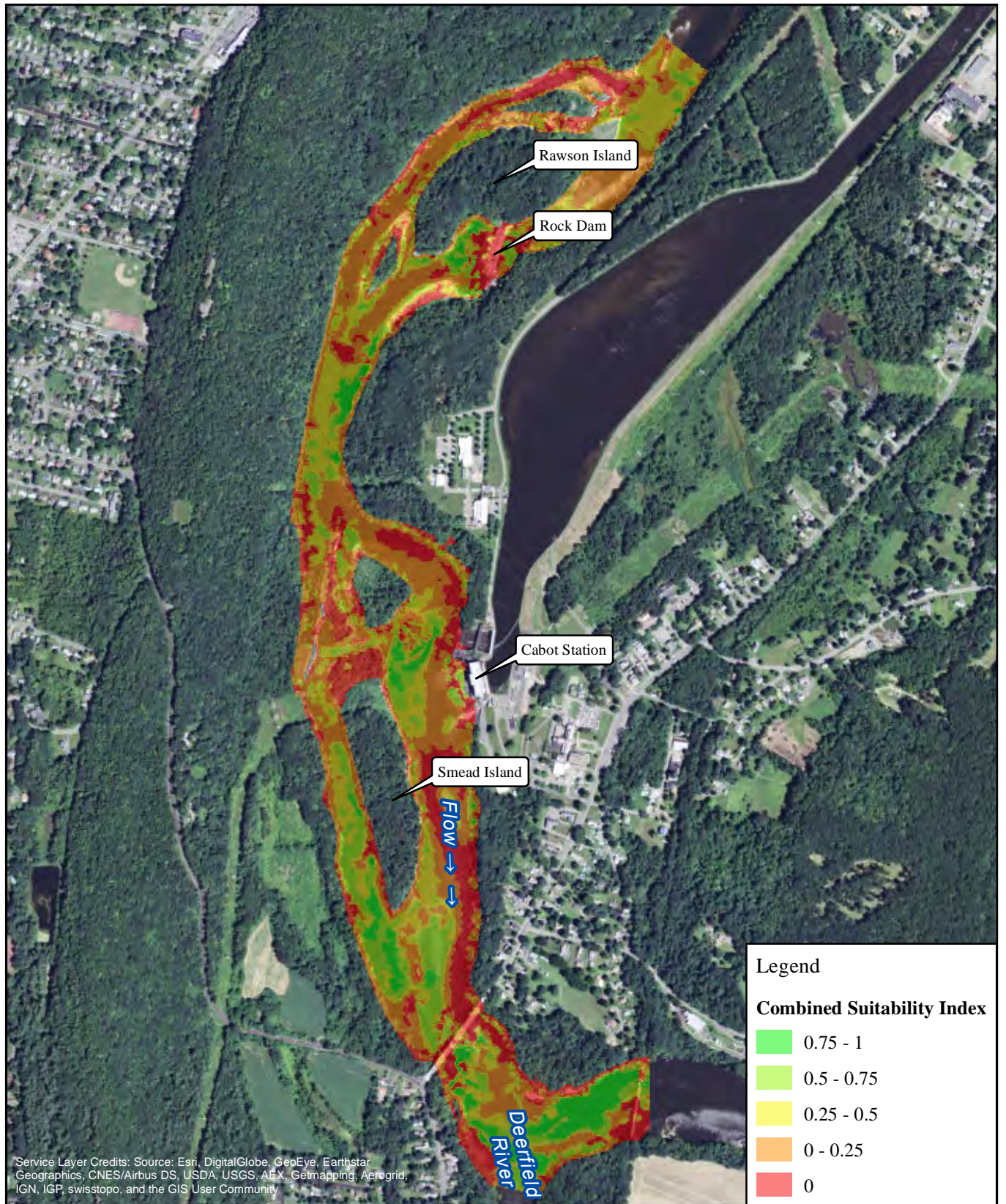
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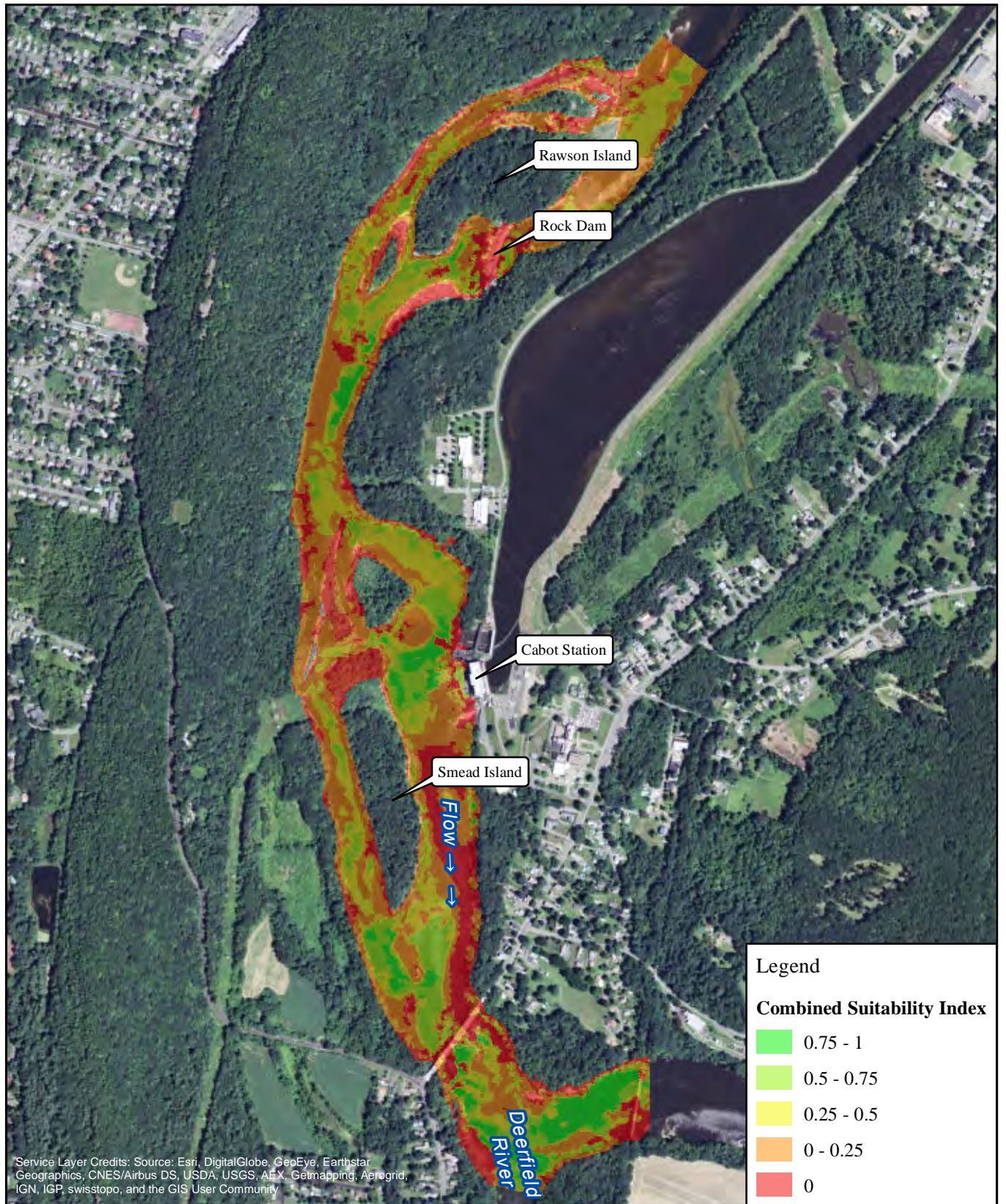
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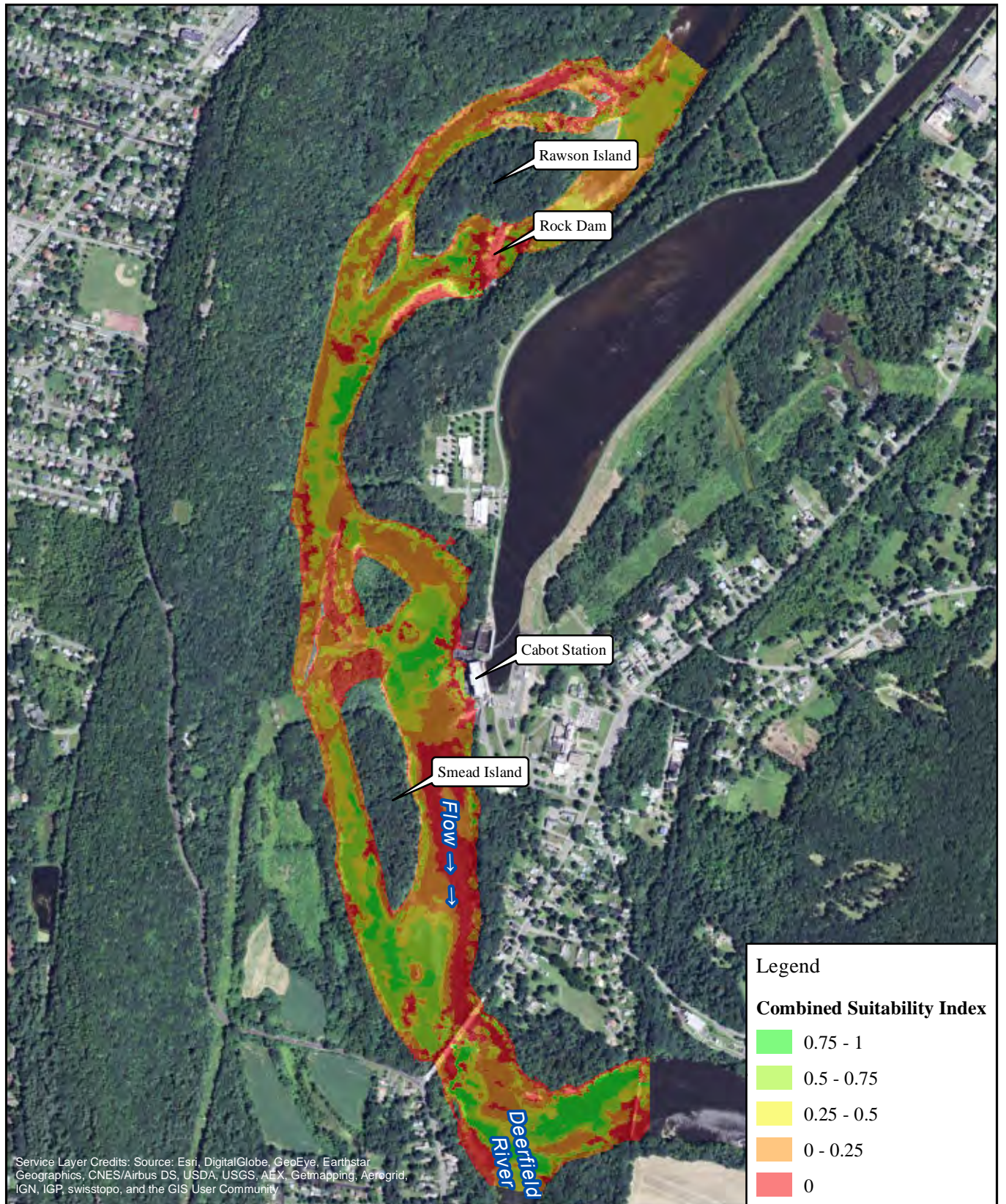
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Shortnose Sturgeon-Fry
 Cabot Flow: 7000 cfs
 Bypass Flow: 1000 cfs
 Deerfield Flow: 200 cfs

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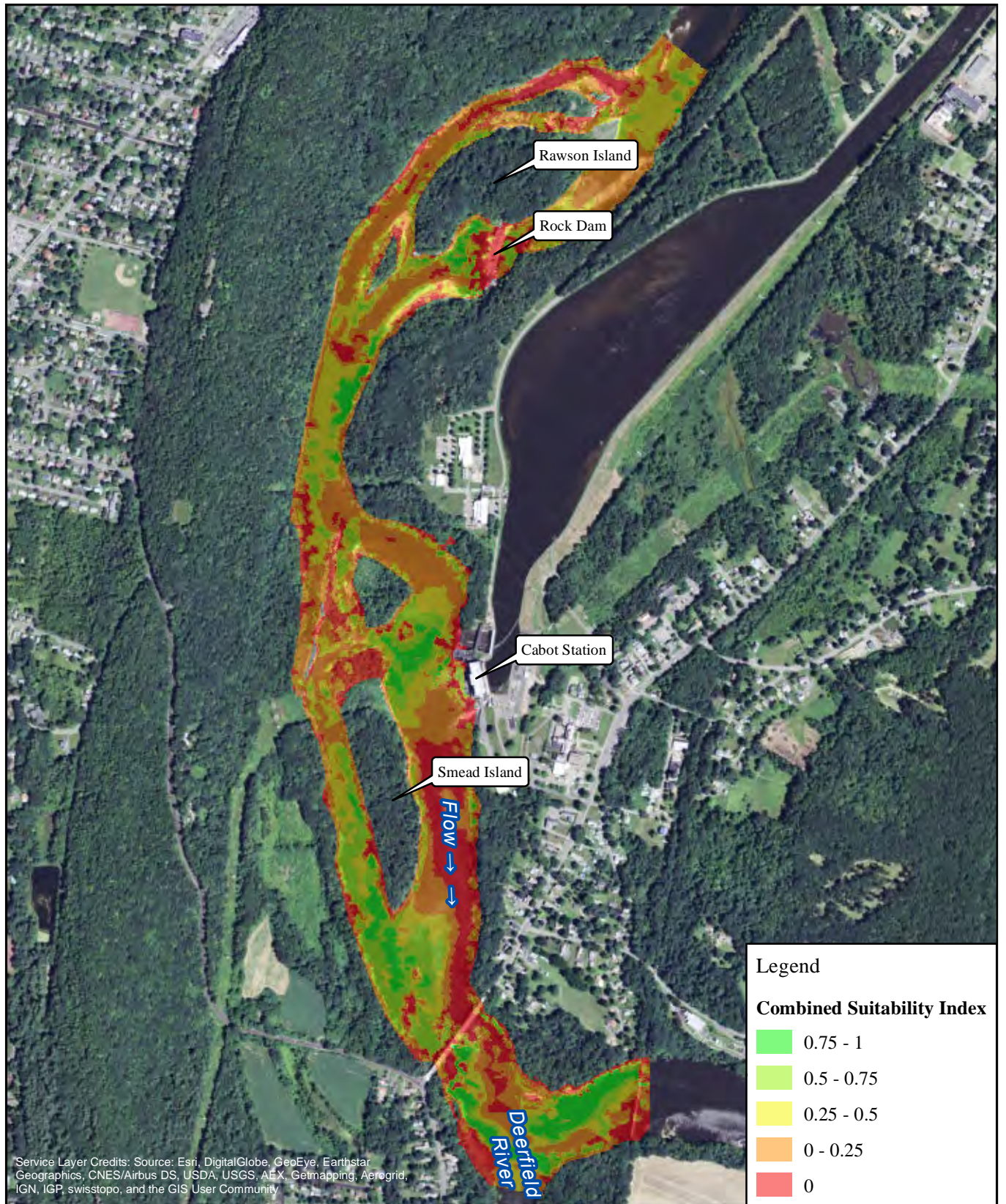
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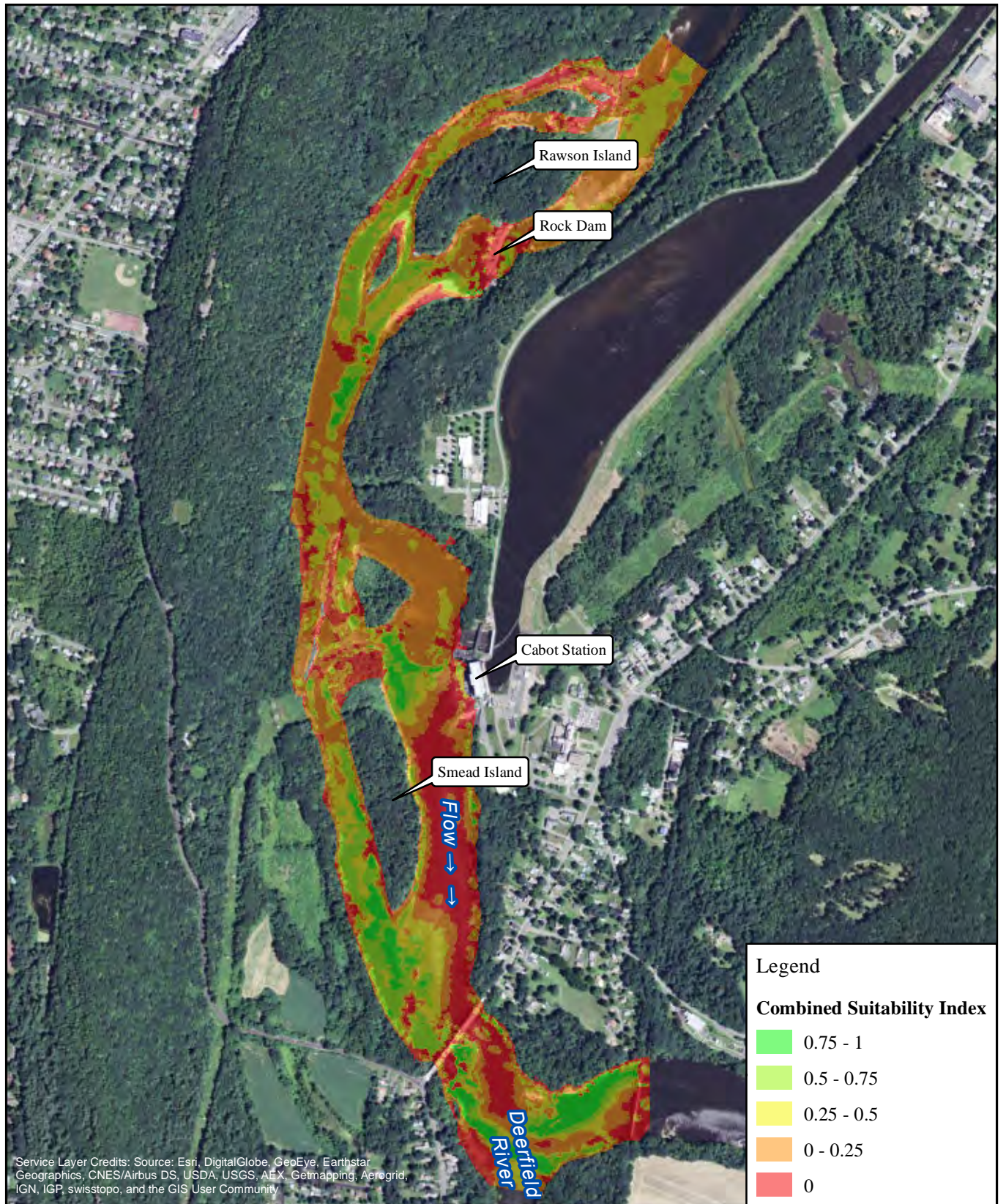
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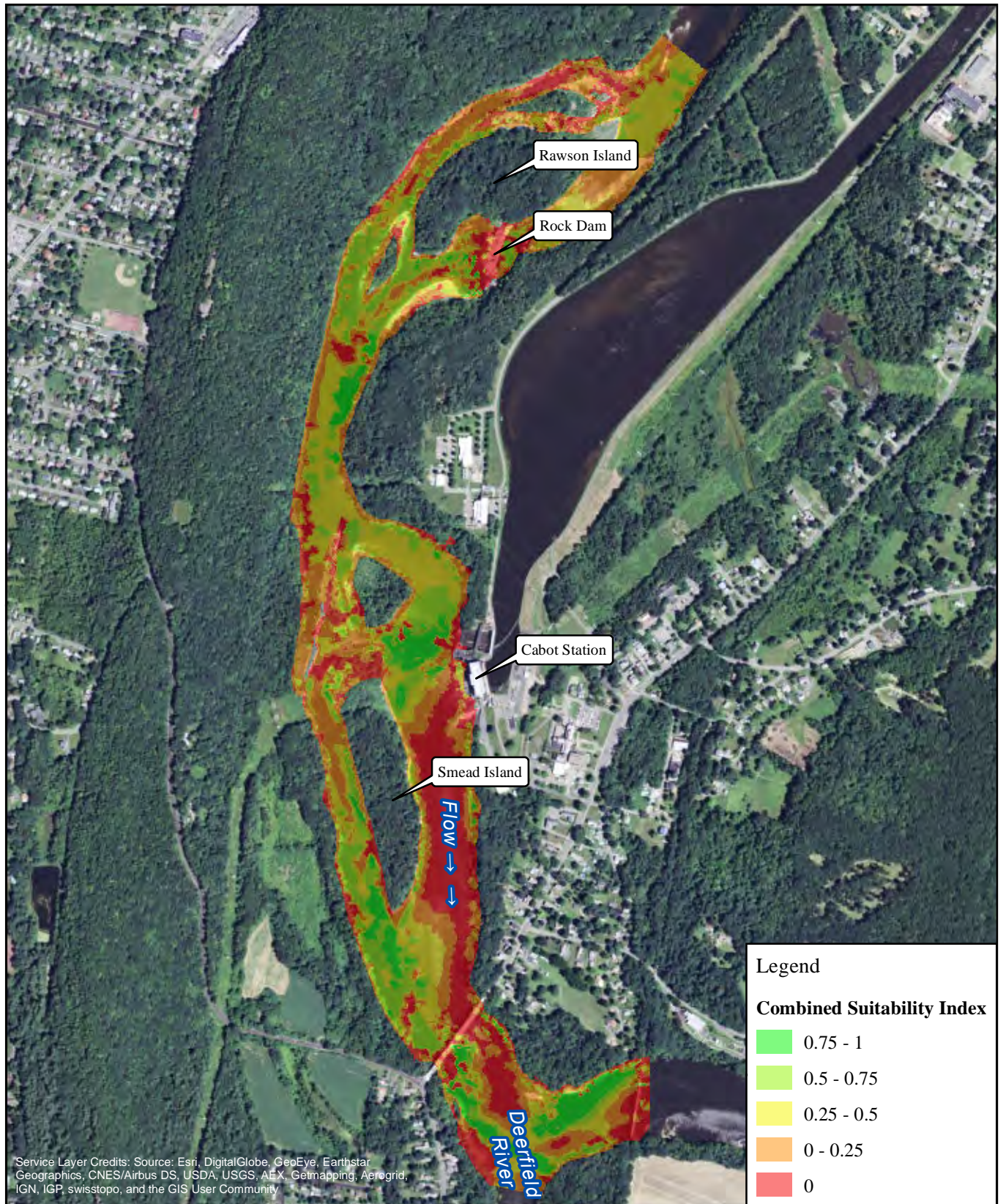
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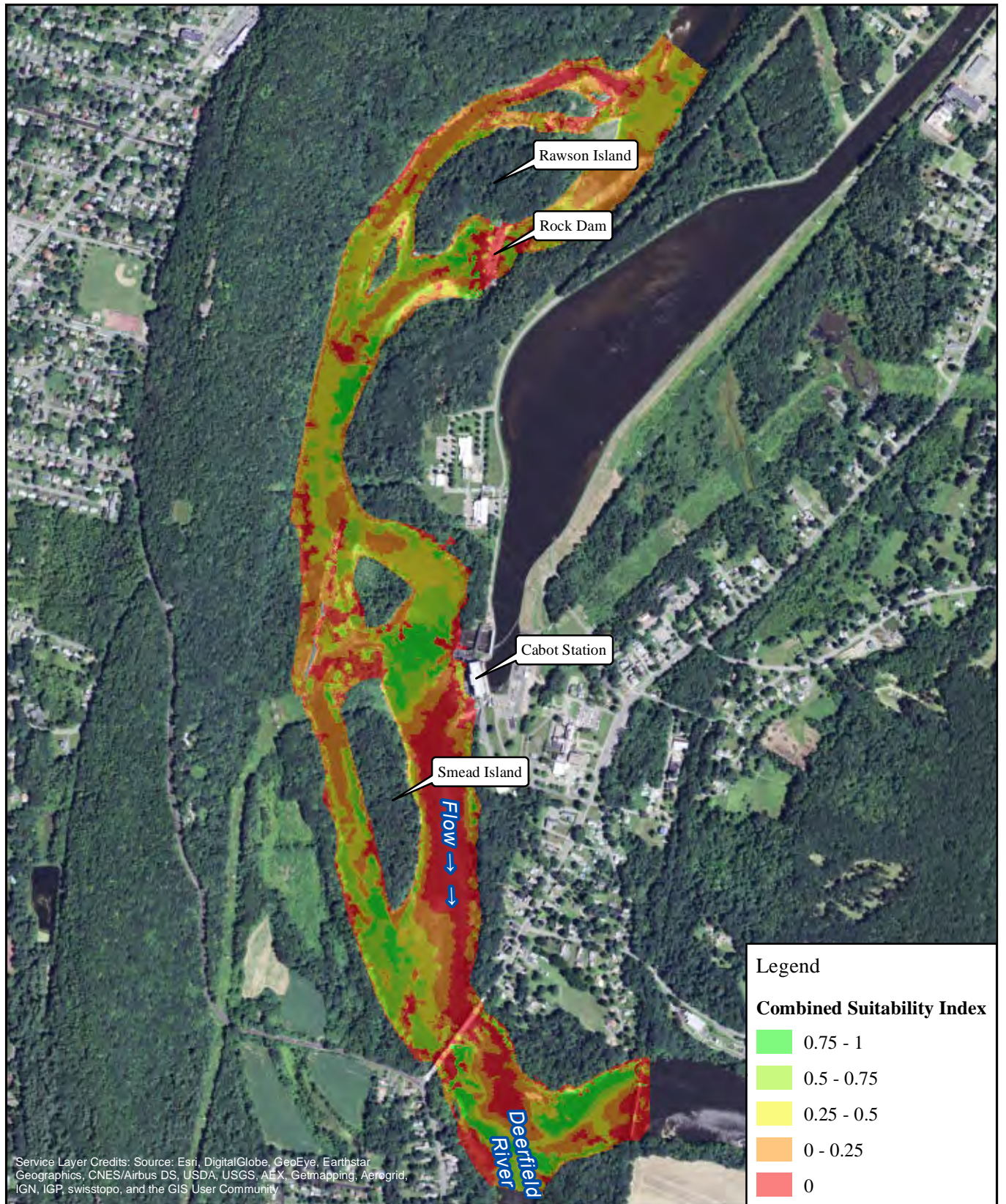
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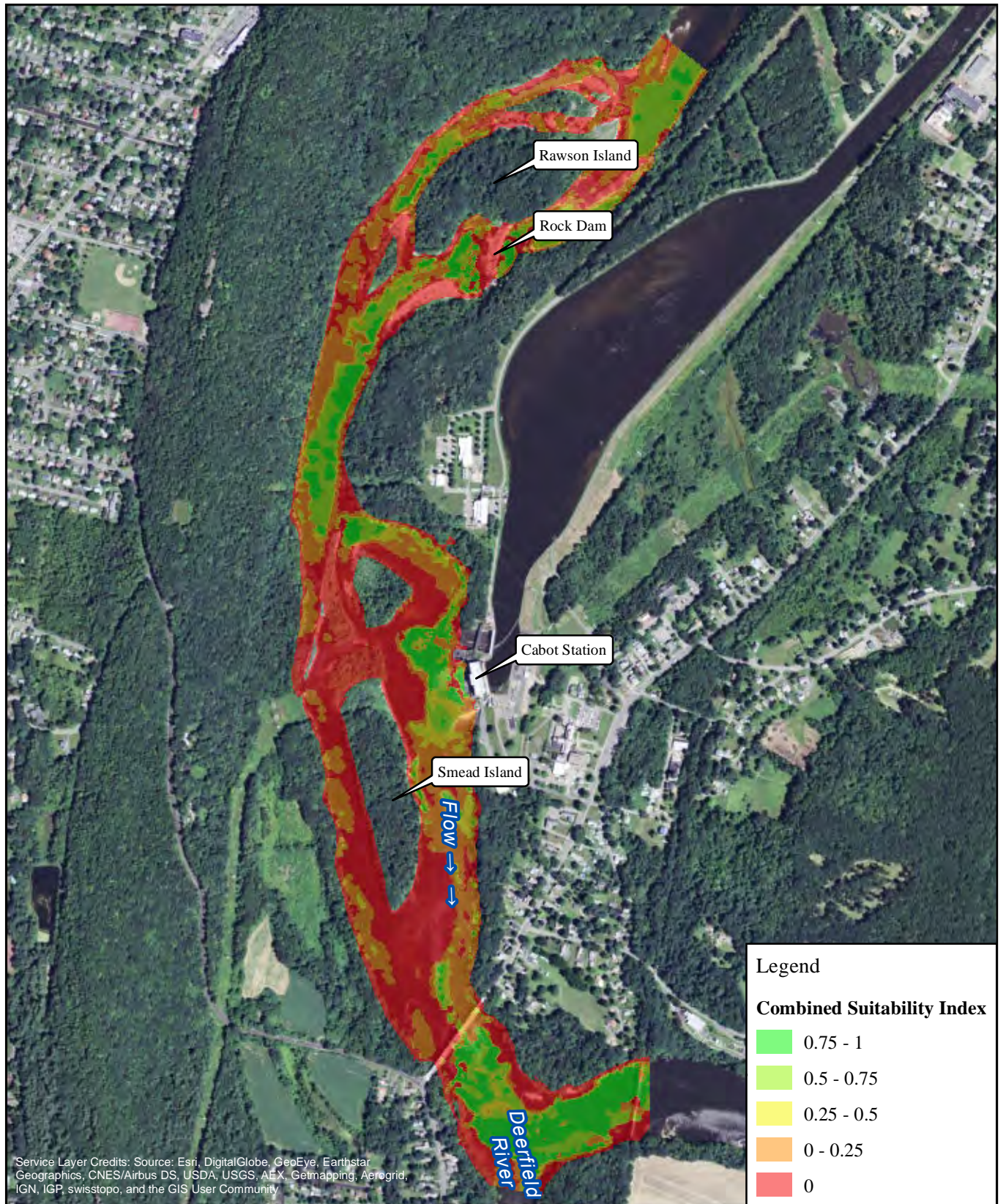
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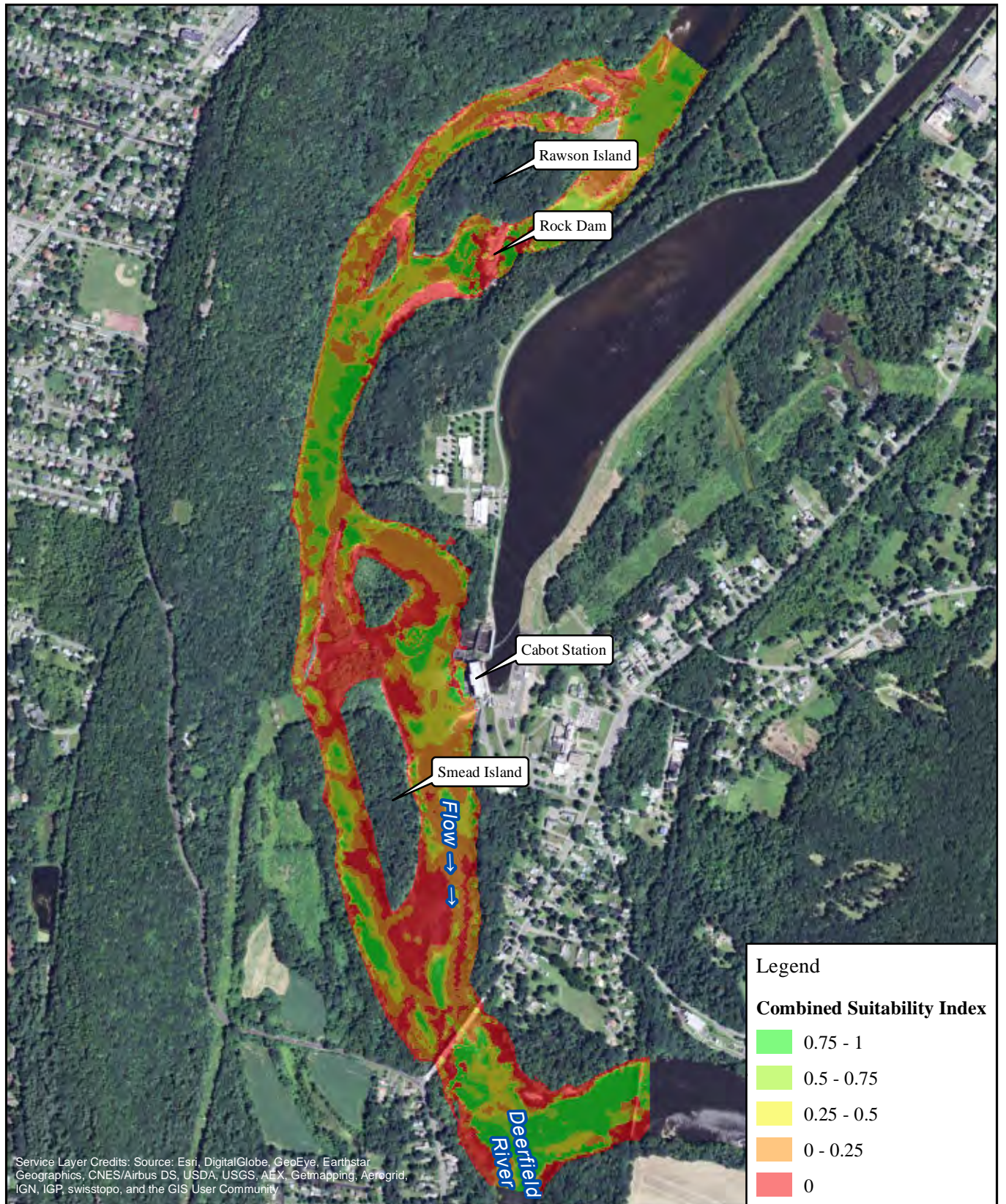
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Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

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Feet

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

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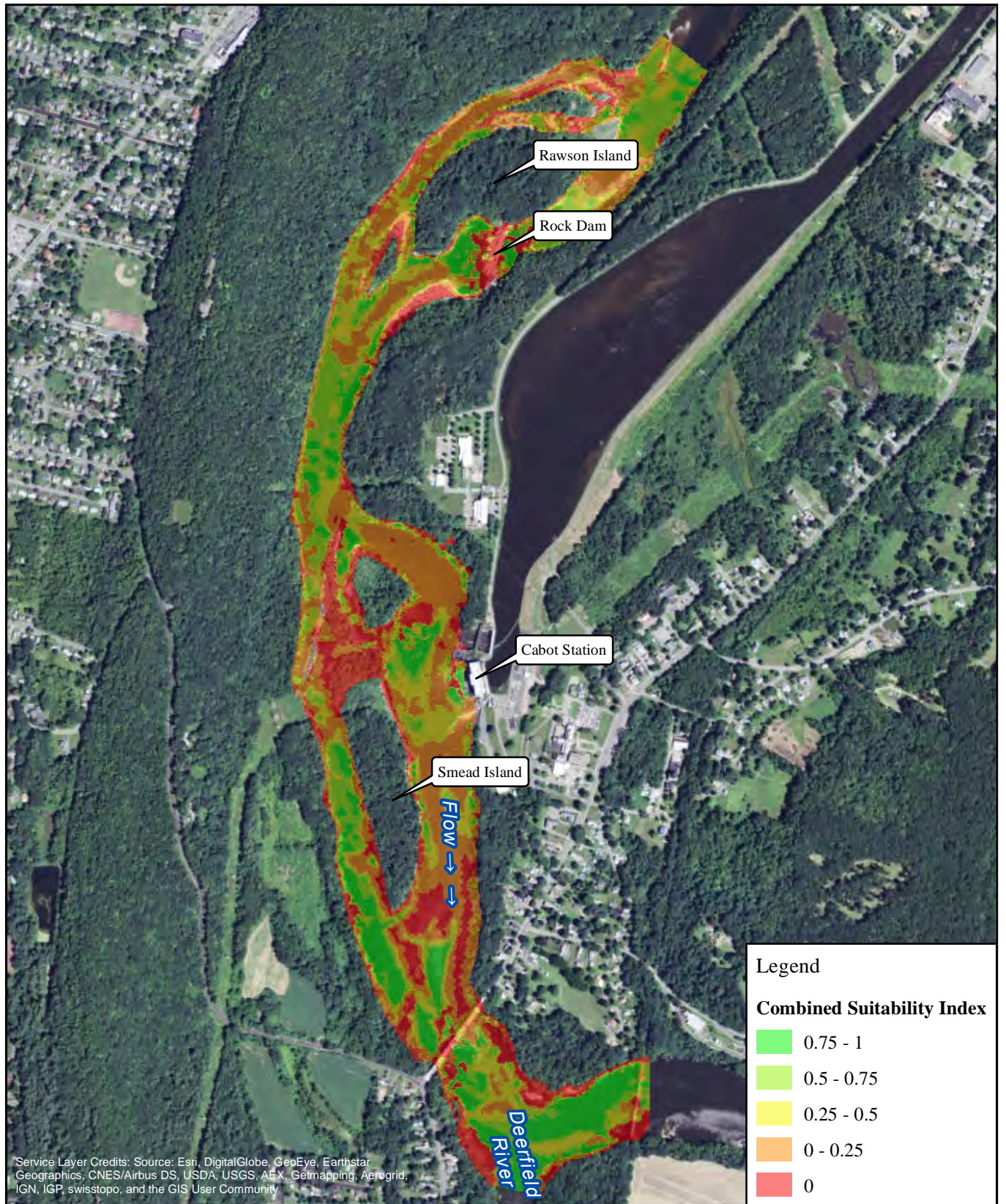
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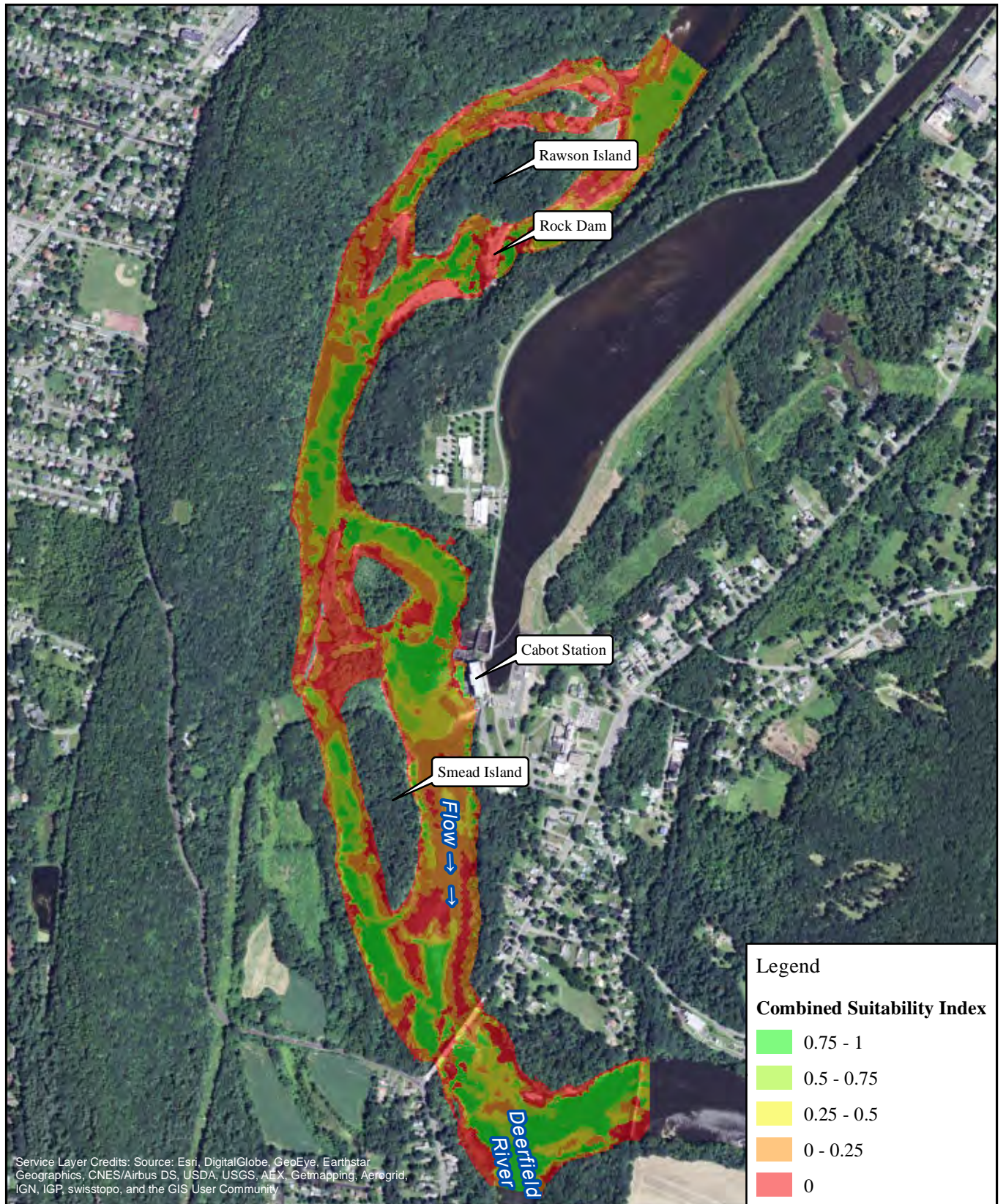
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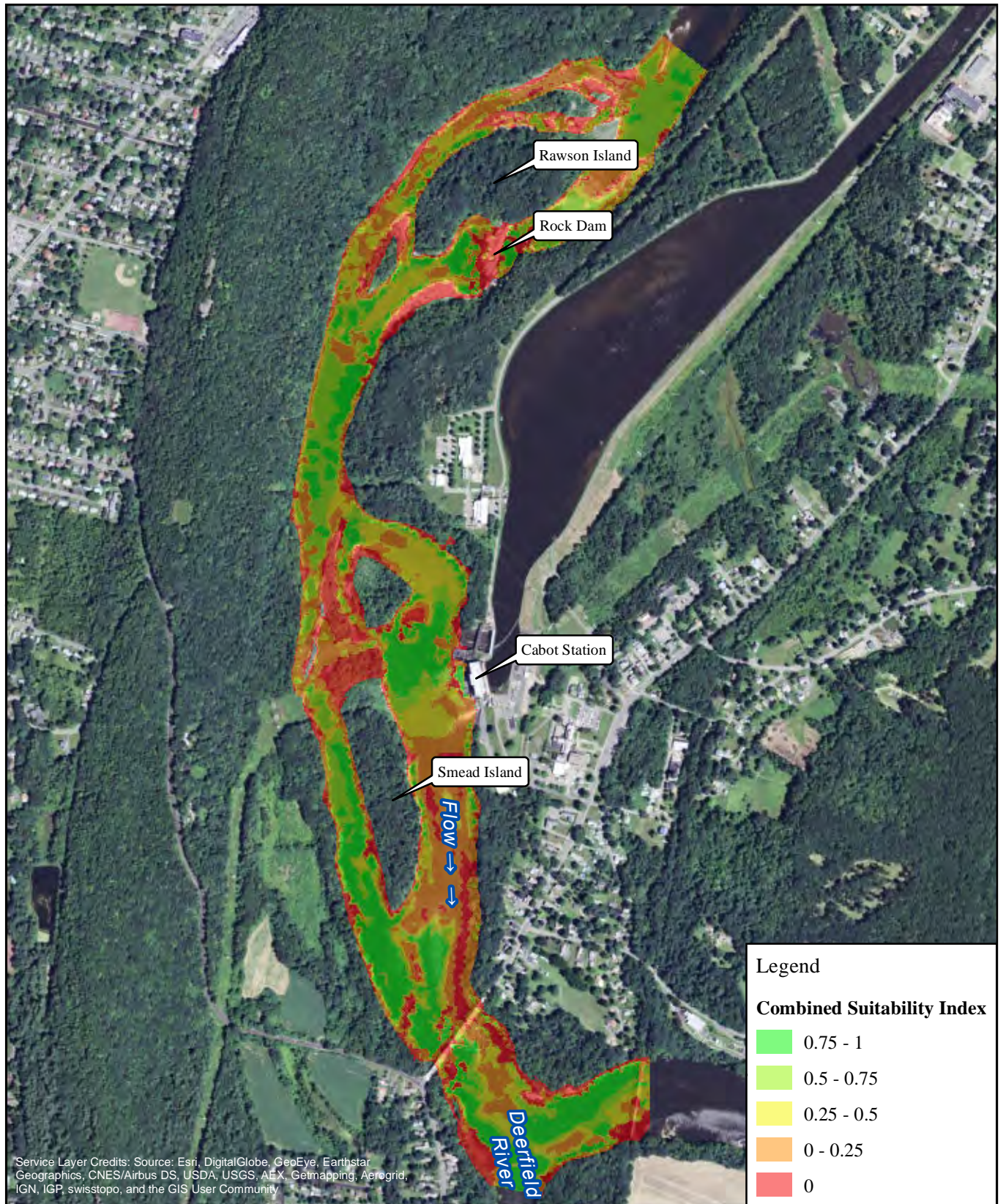
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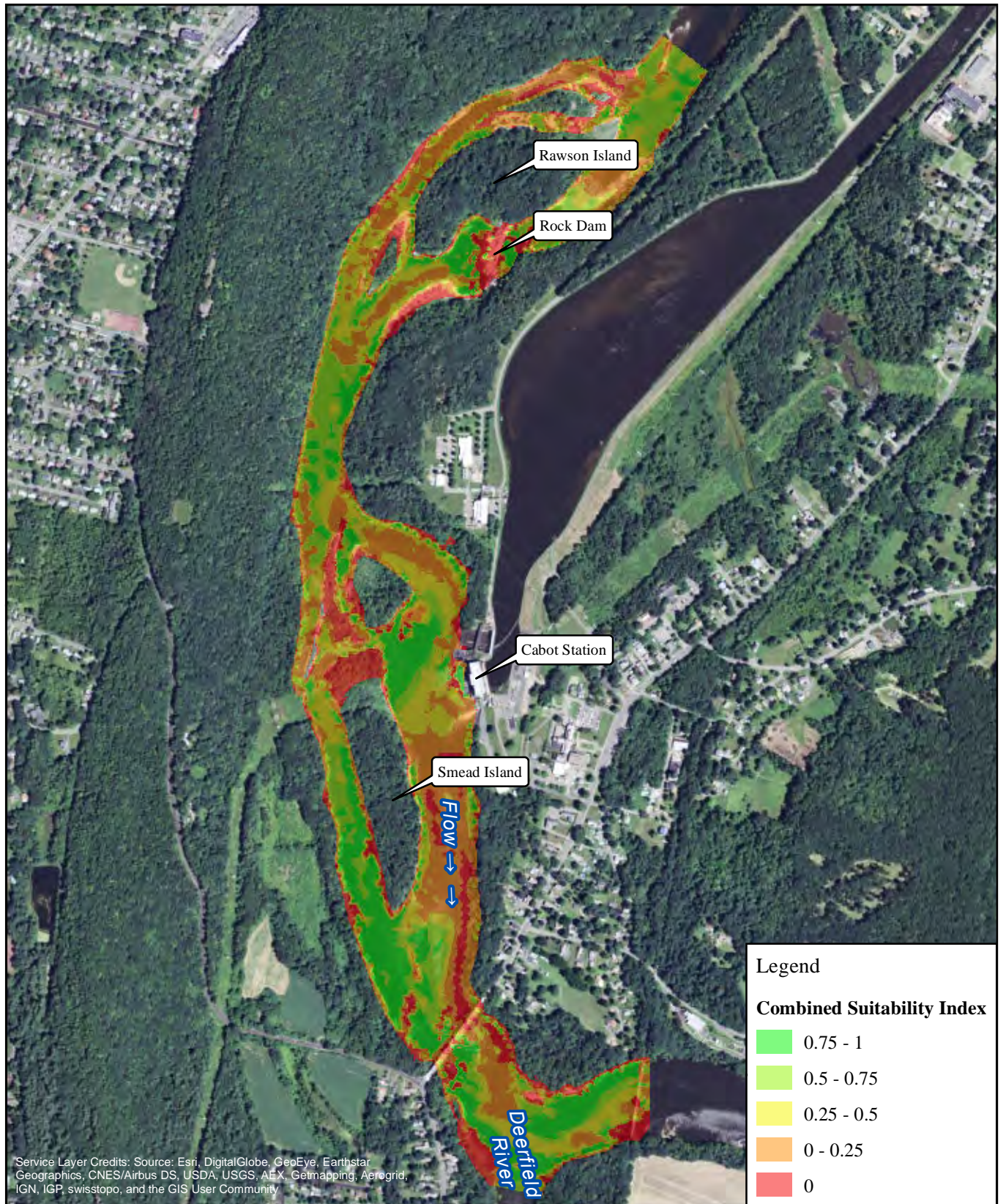
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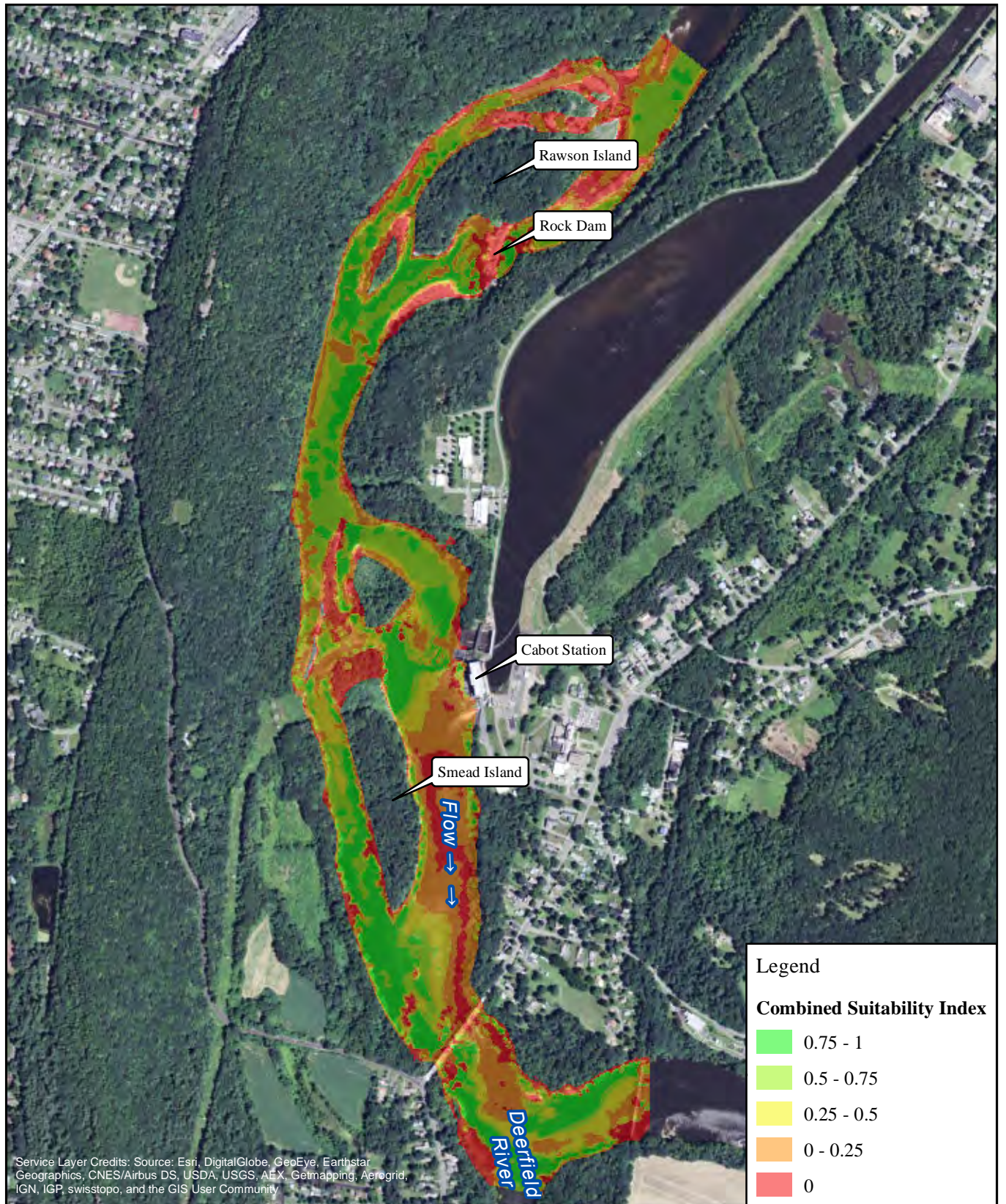
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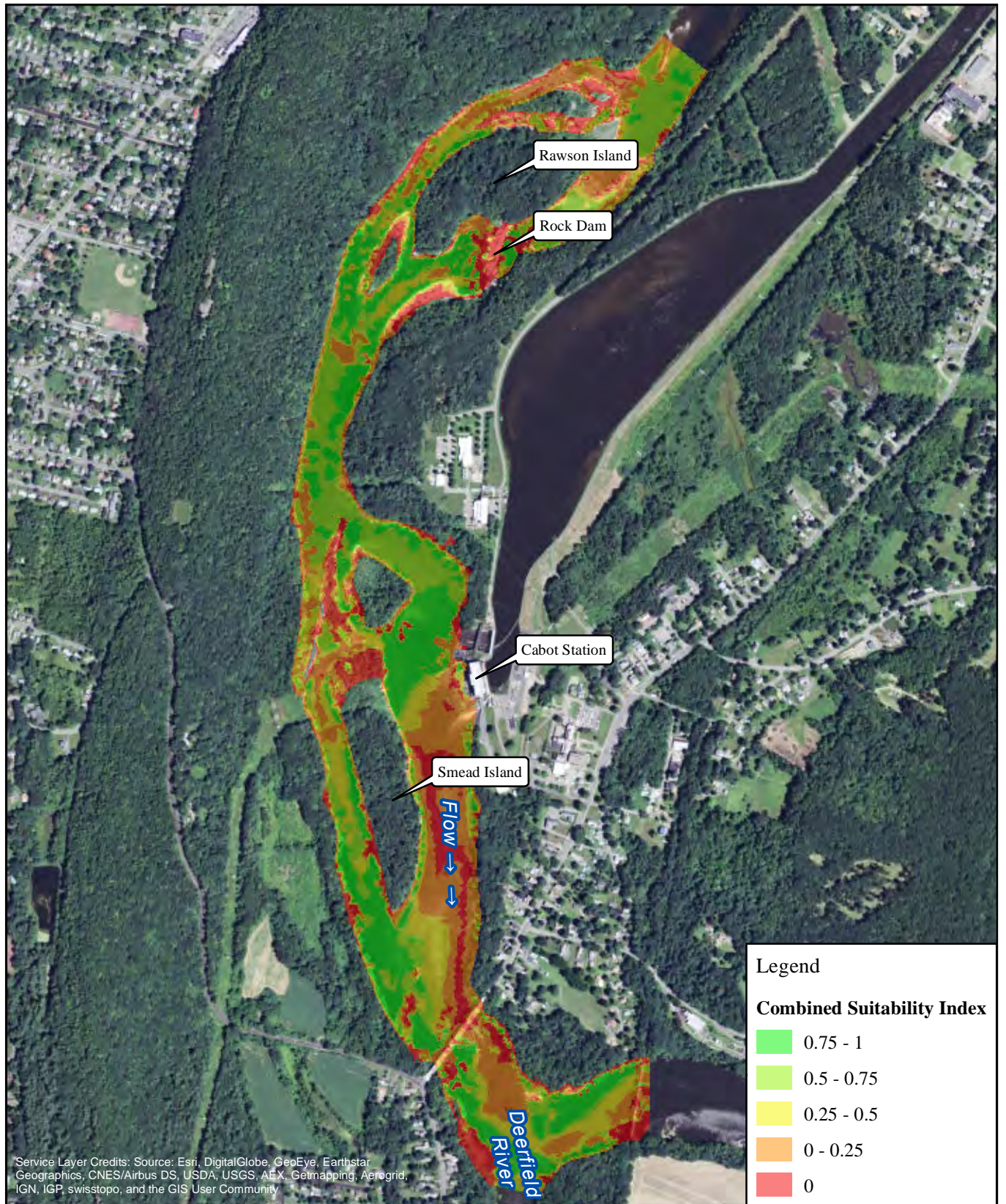
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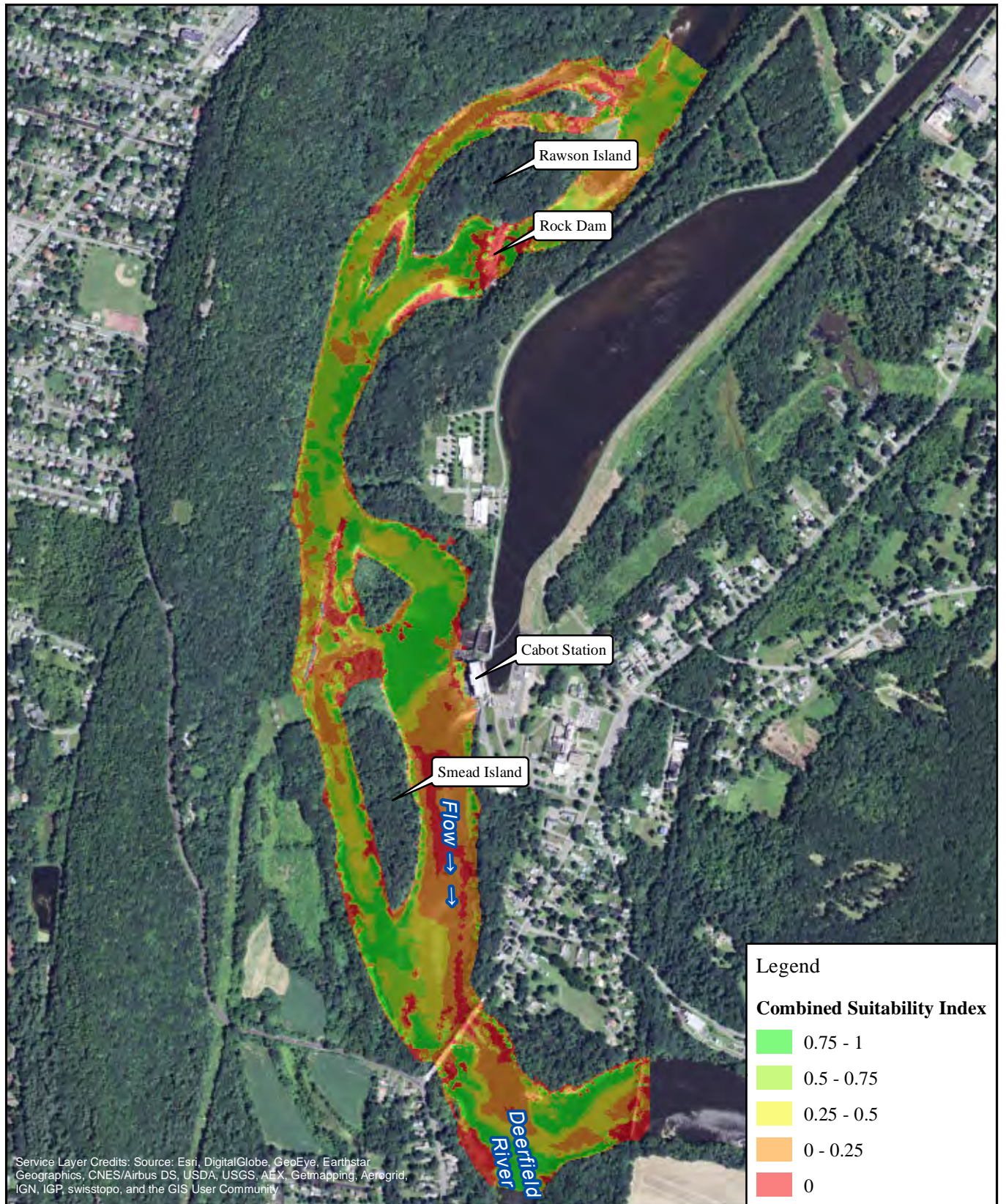
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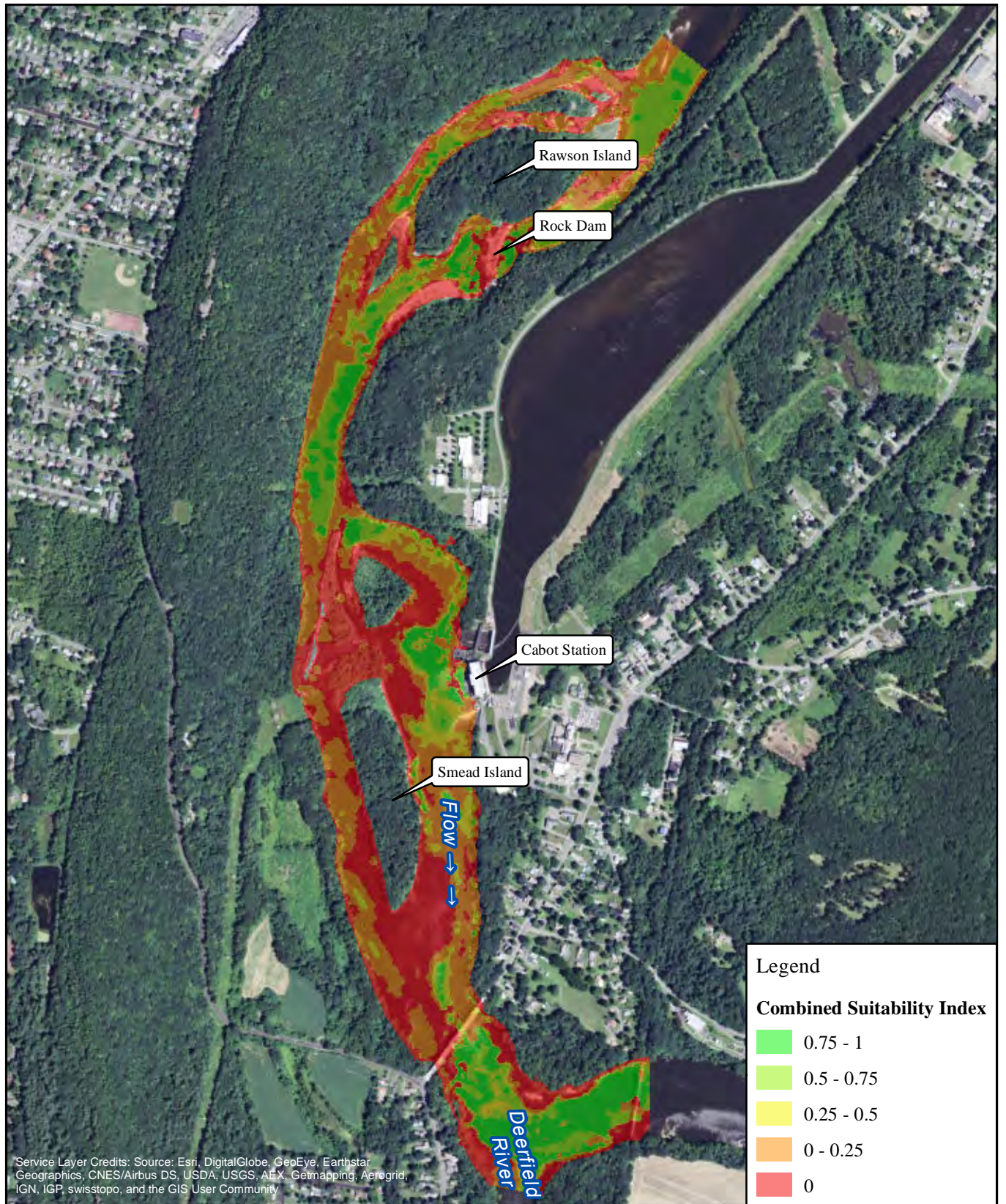
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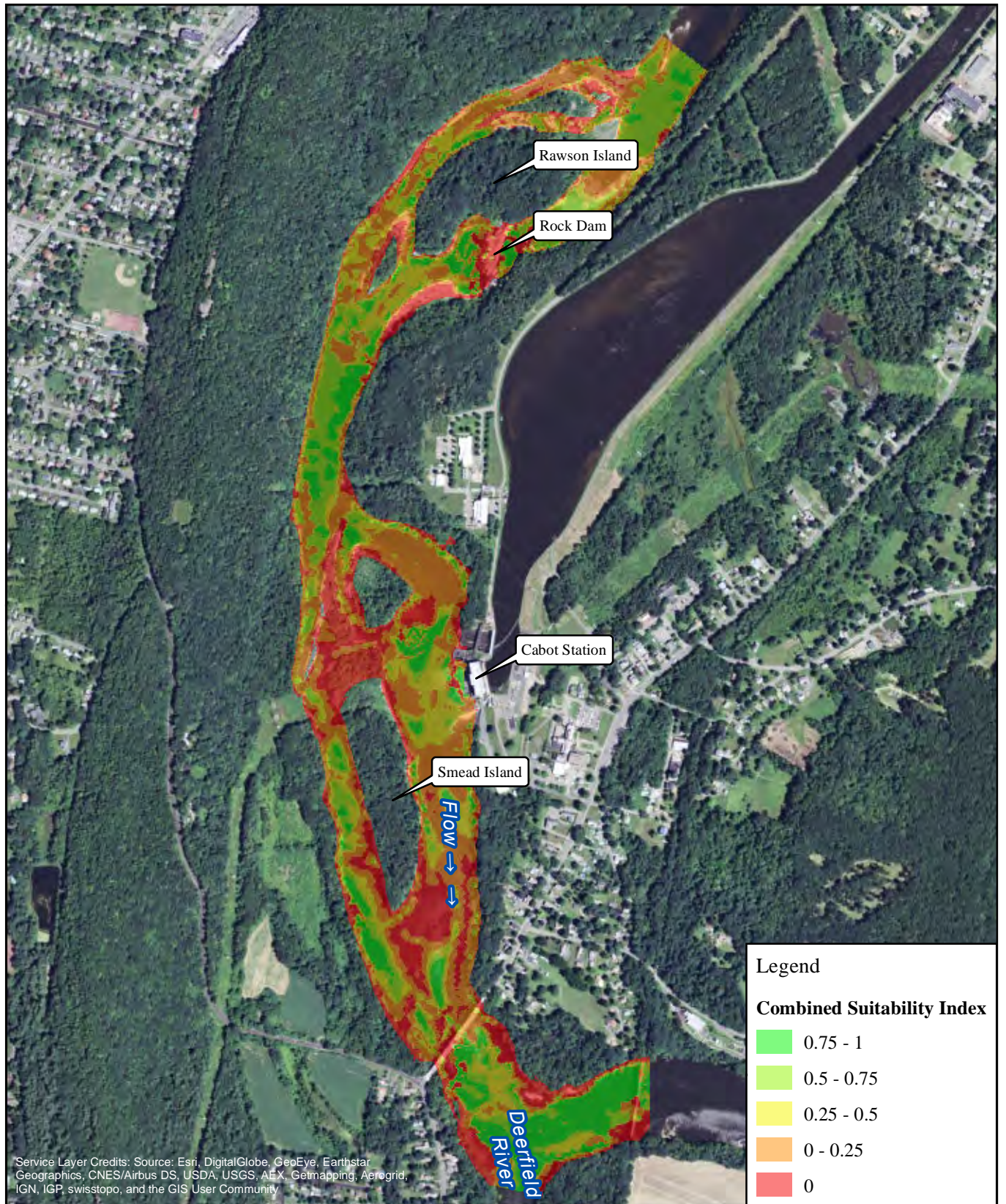
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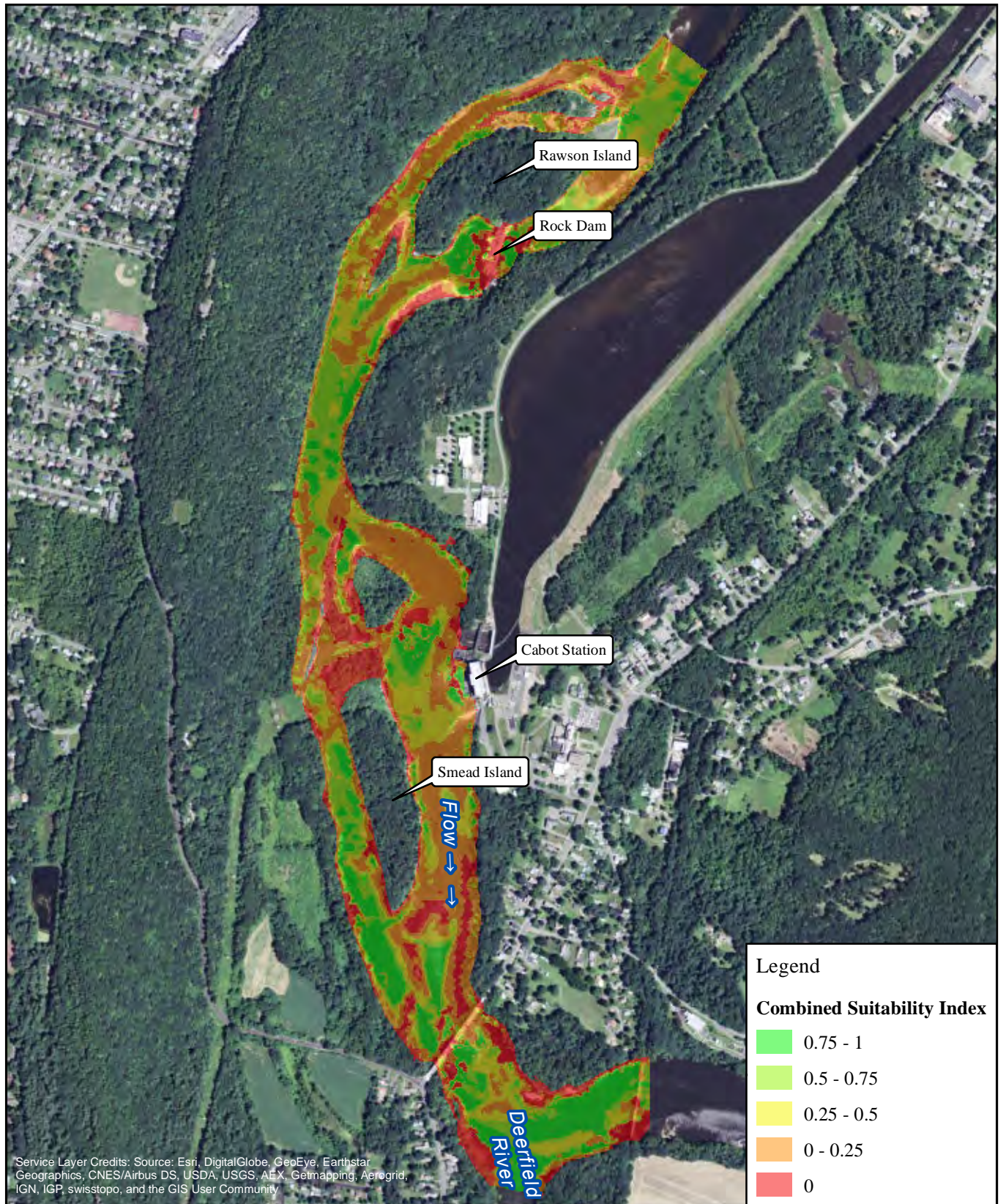
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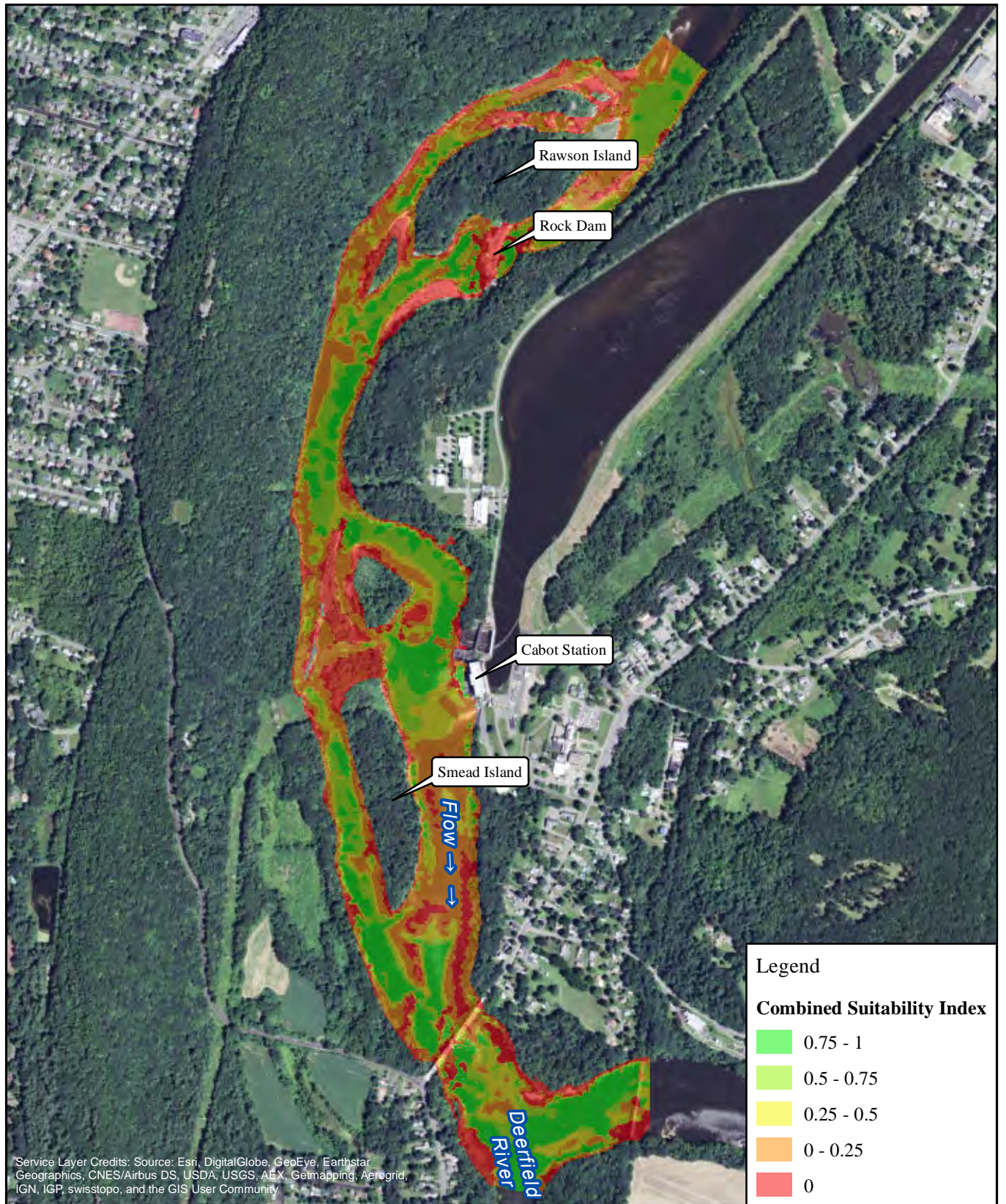
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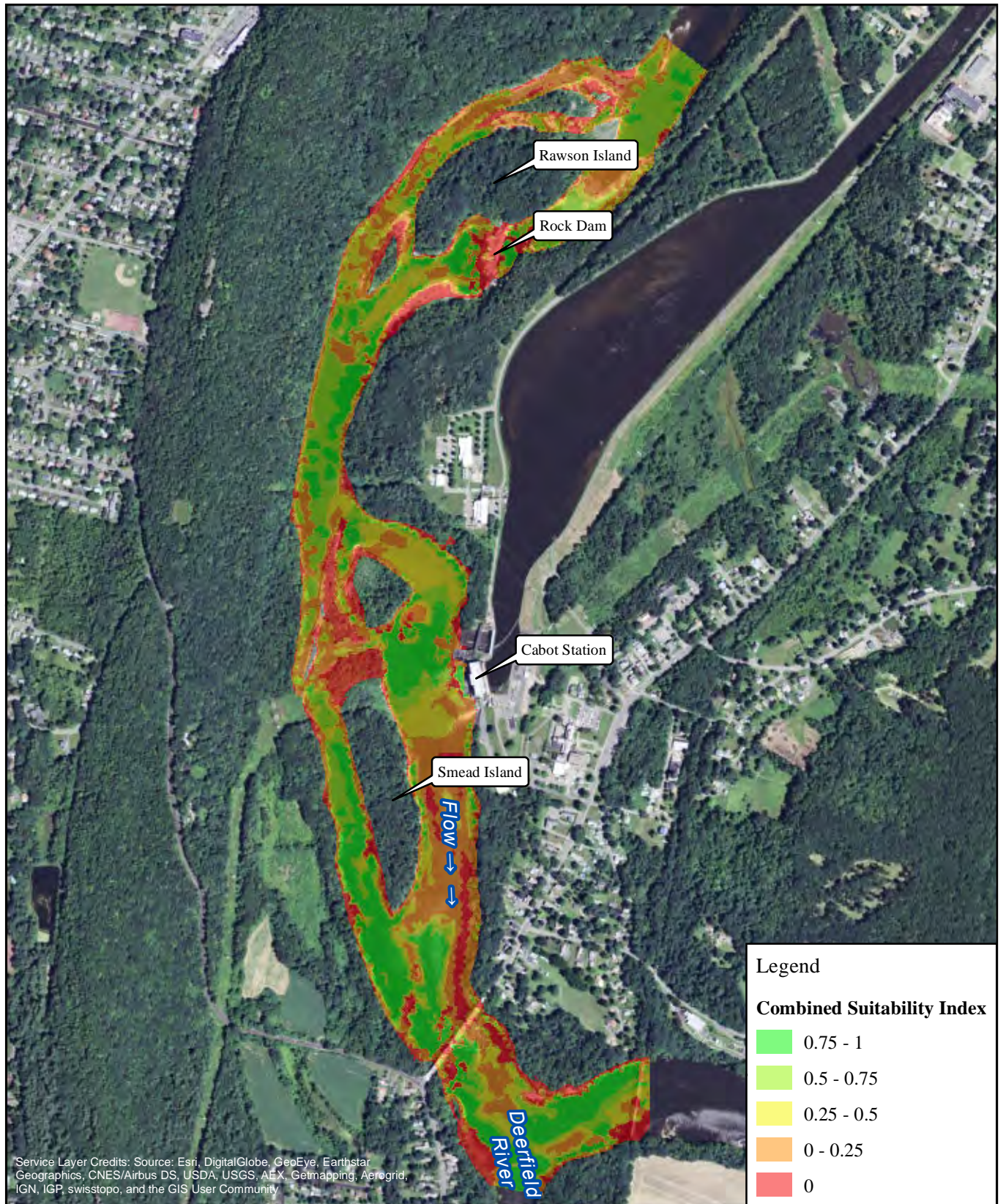
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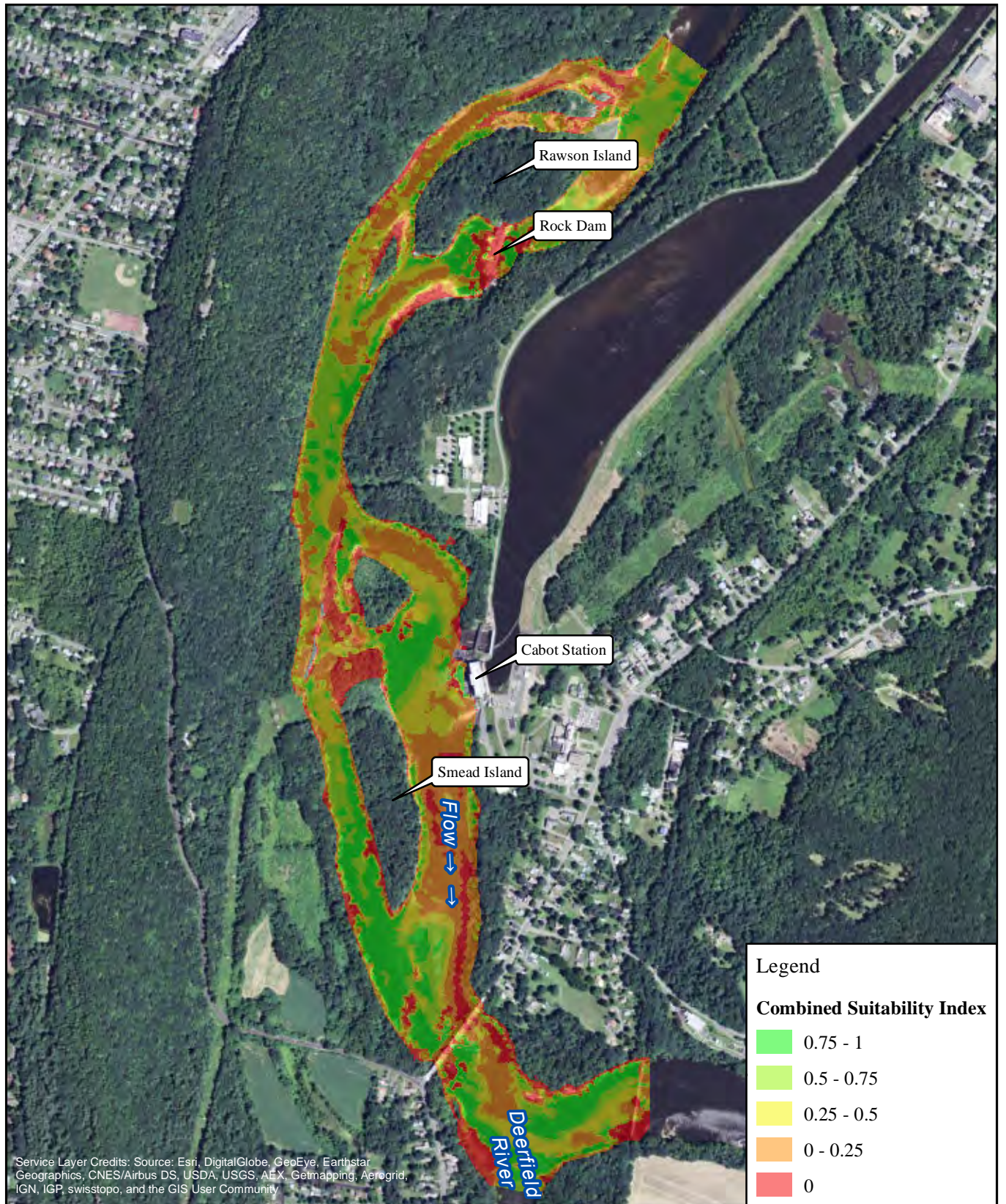
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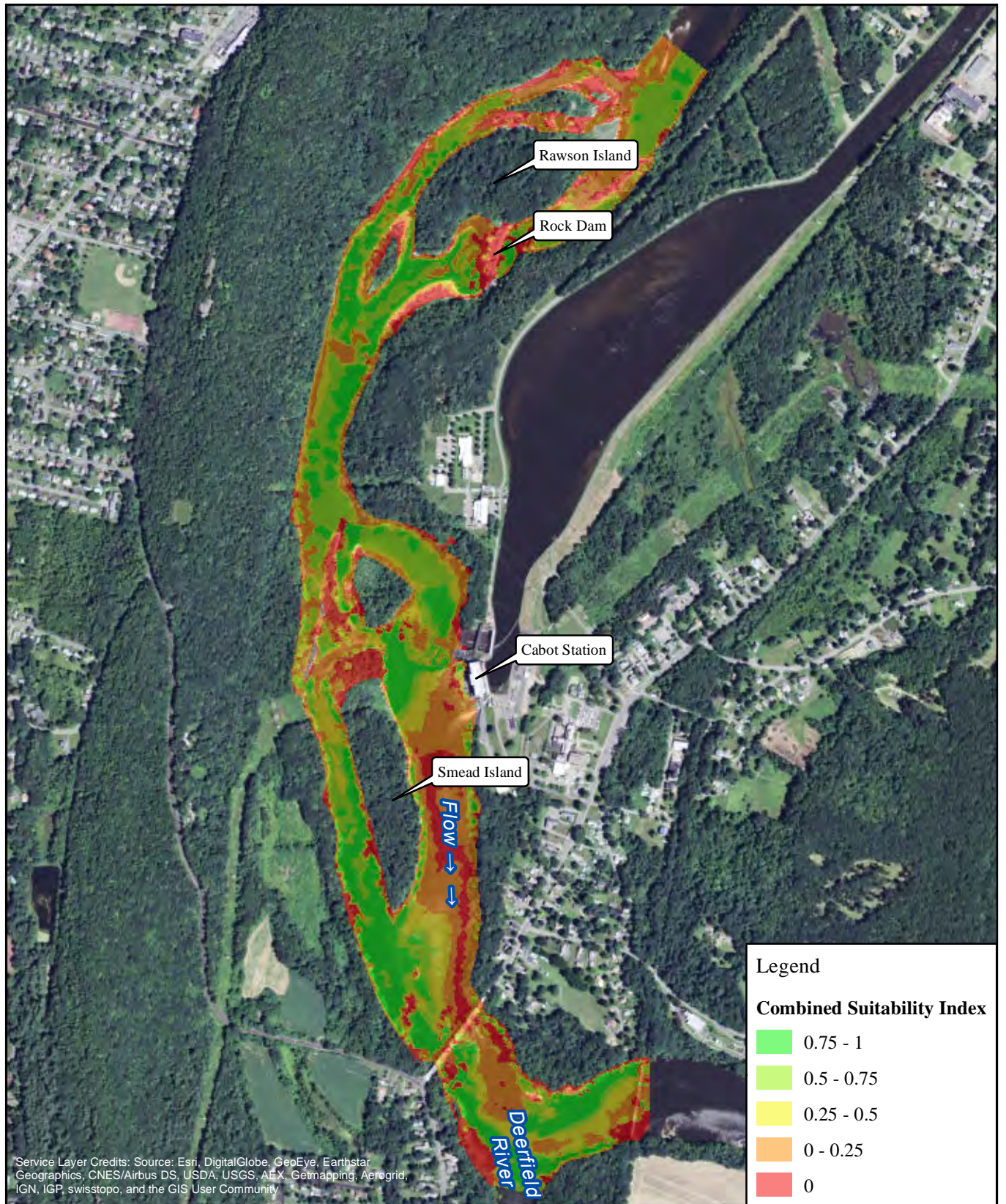
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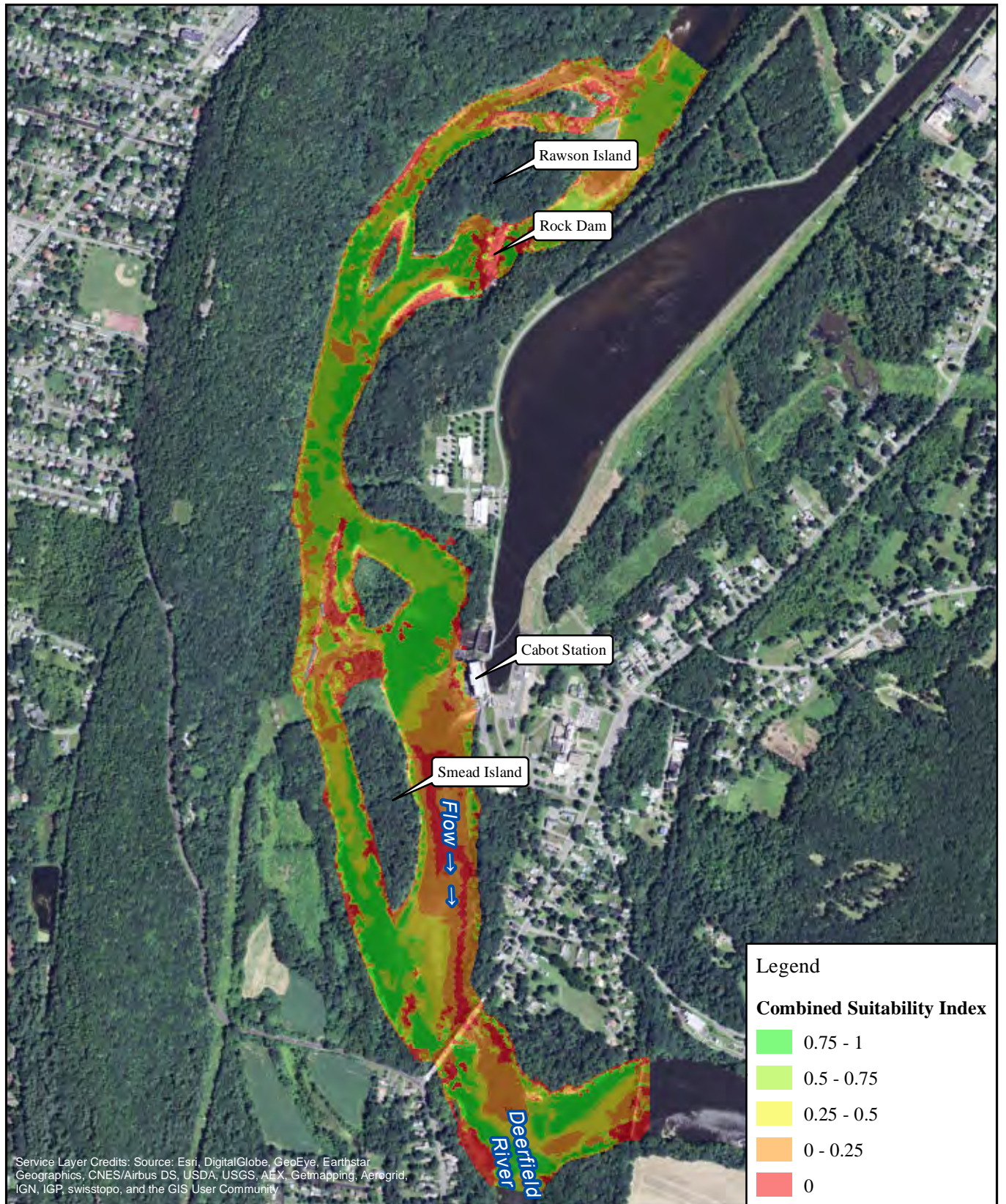
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

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

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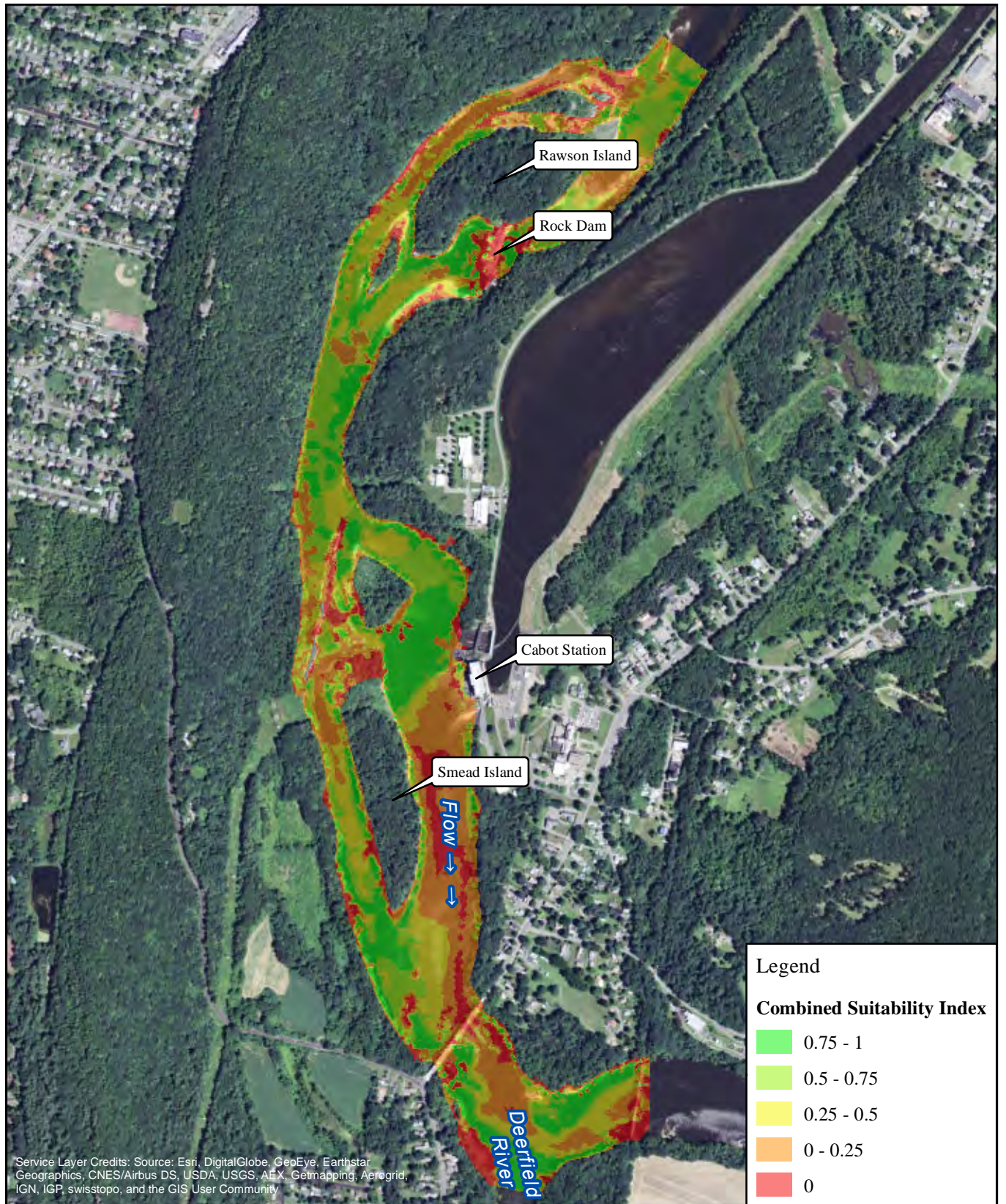
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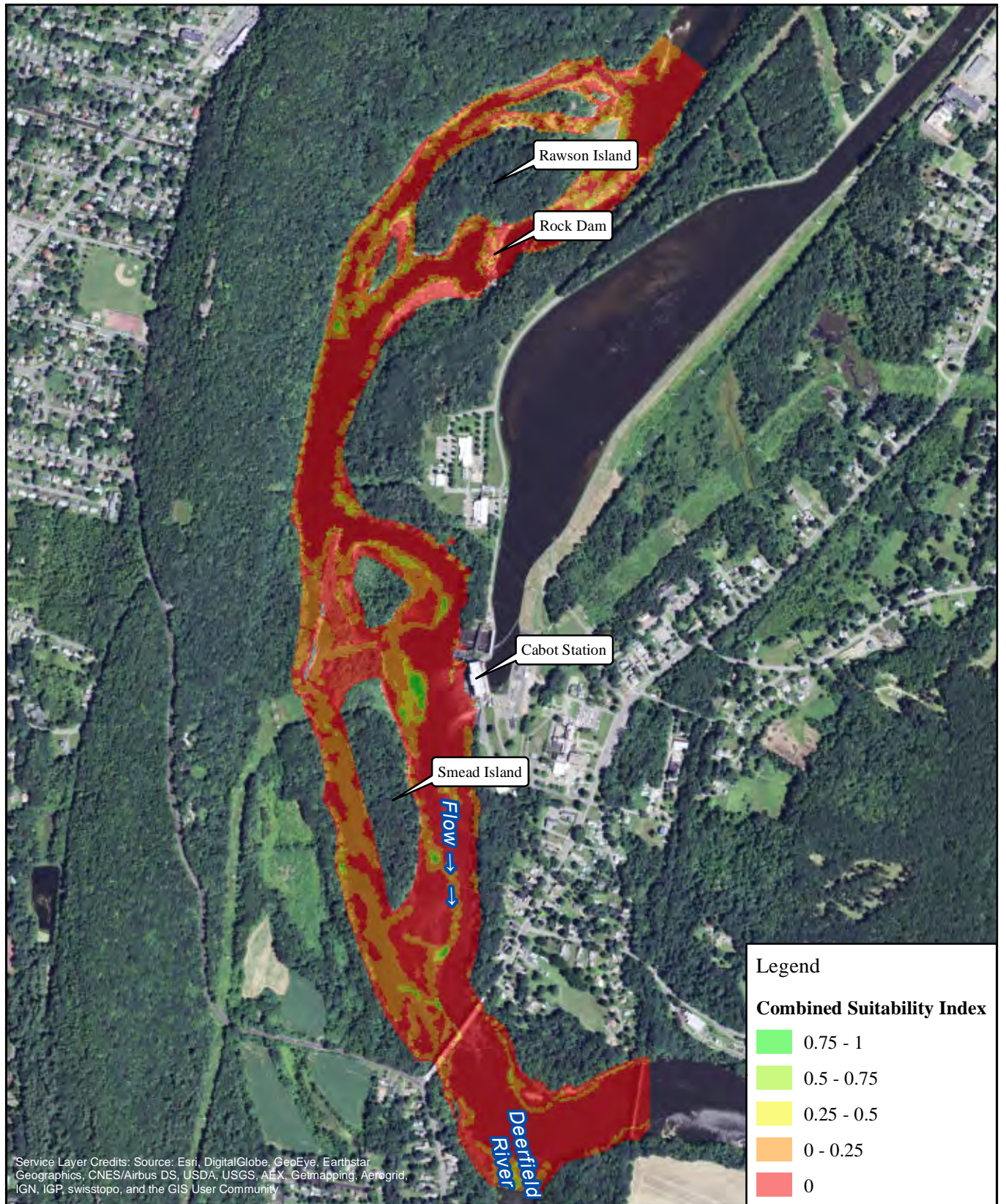
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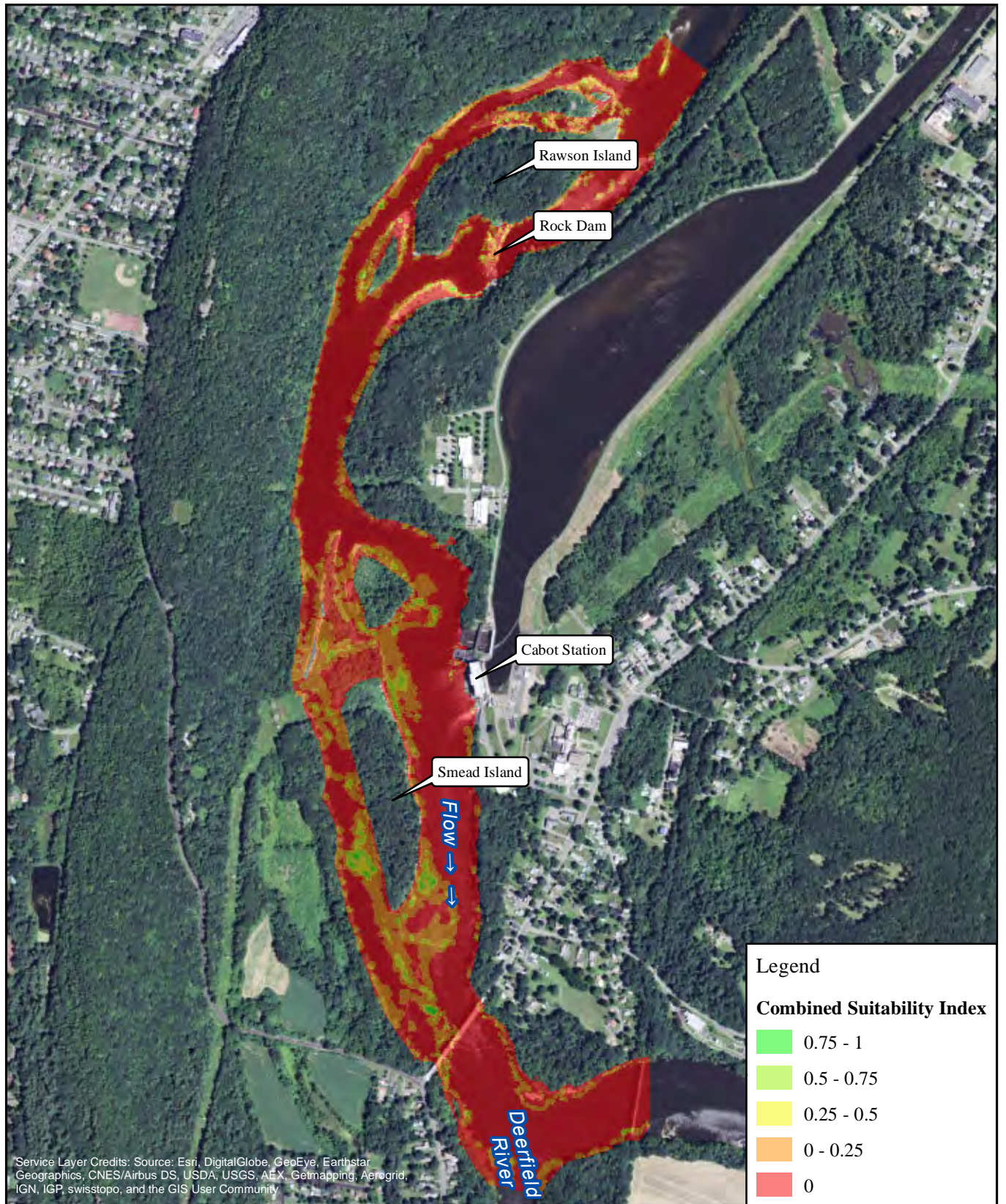
FIRSTLIGHT HYDRO GENERATING COMPANY
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Feet

Tessellated Darter-Juvenile-Adult
Cabot Flow: 2500 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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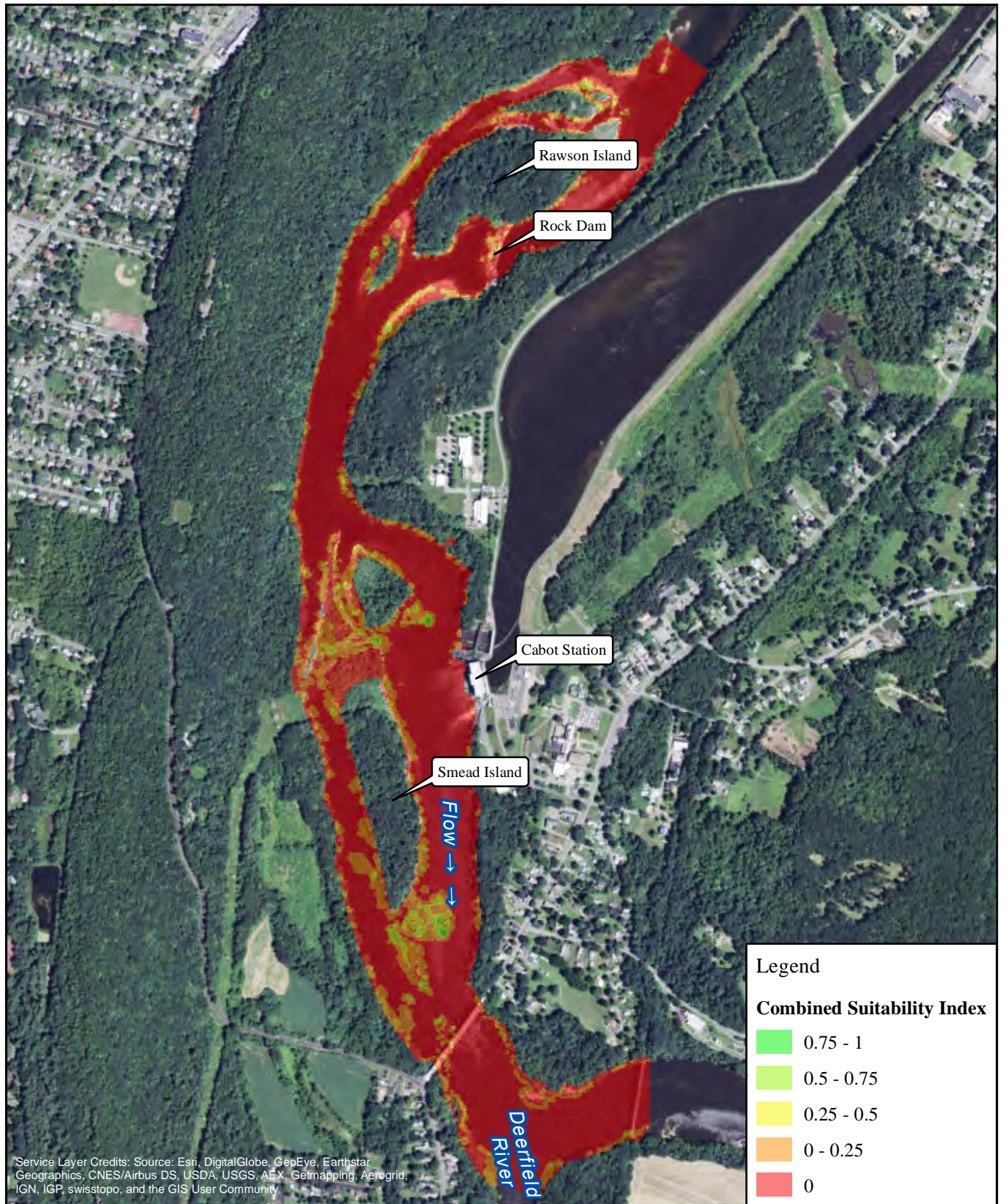
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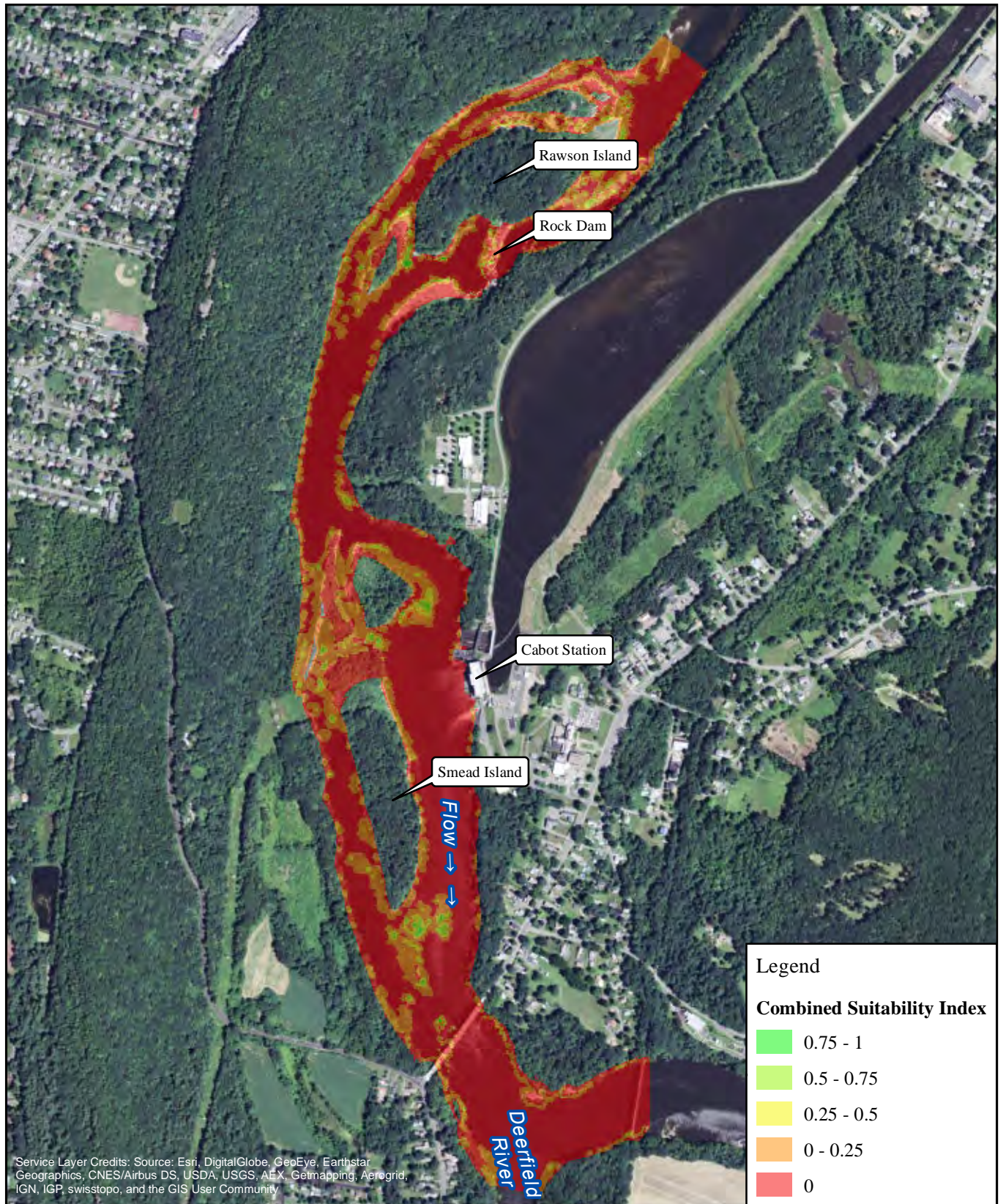
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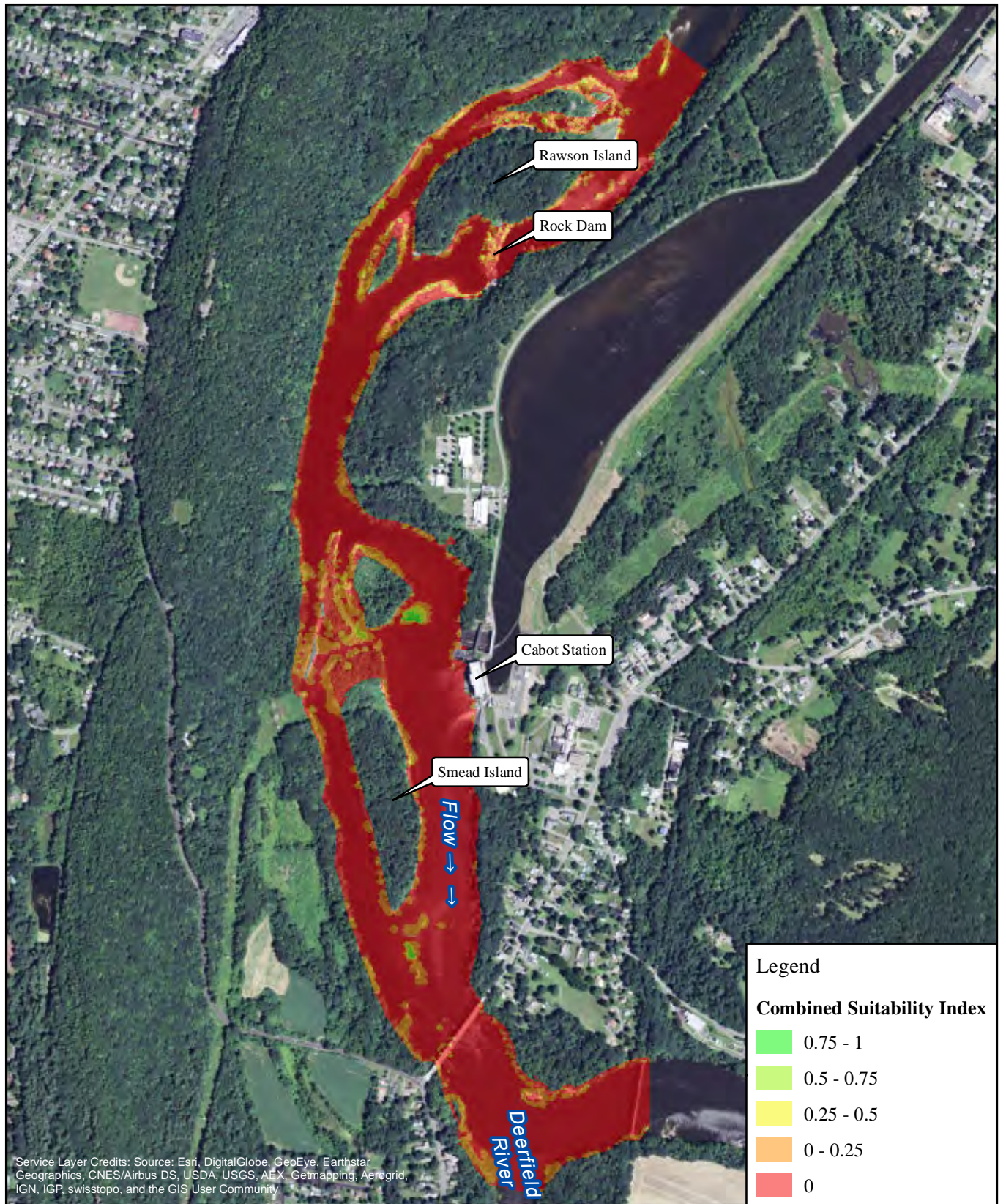
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Tessellated Darter-Juvenile-Adult
Cabot Flow: 7000 cfs
Bypass Flow: 1000 cfs
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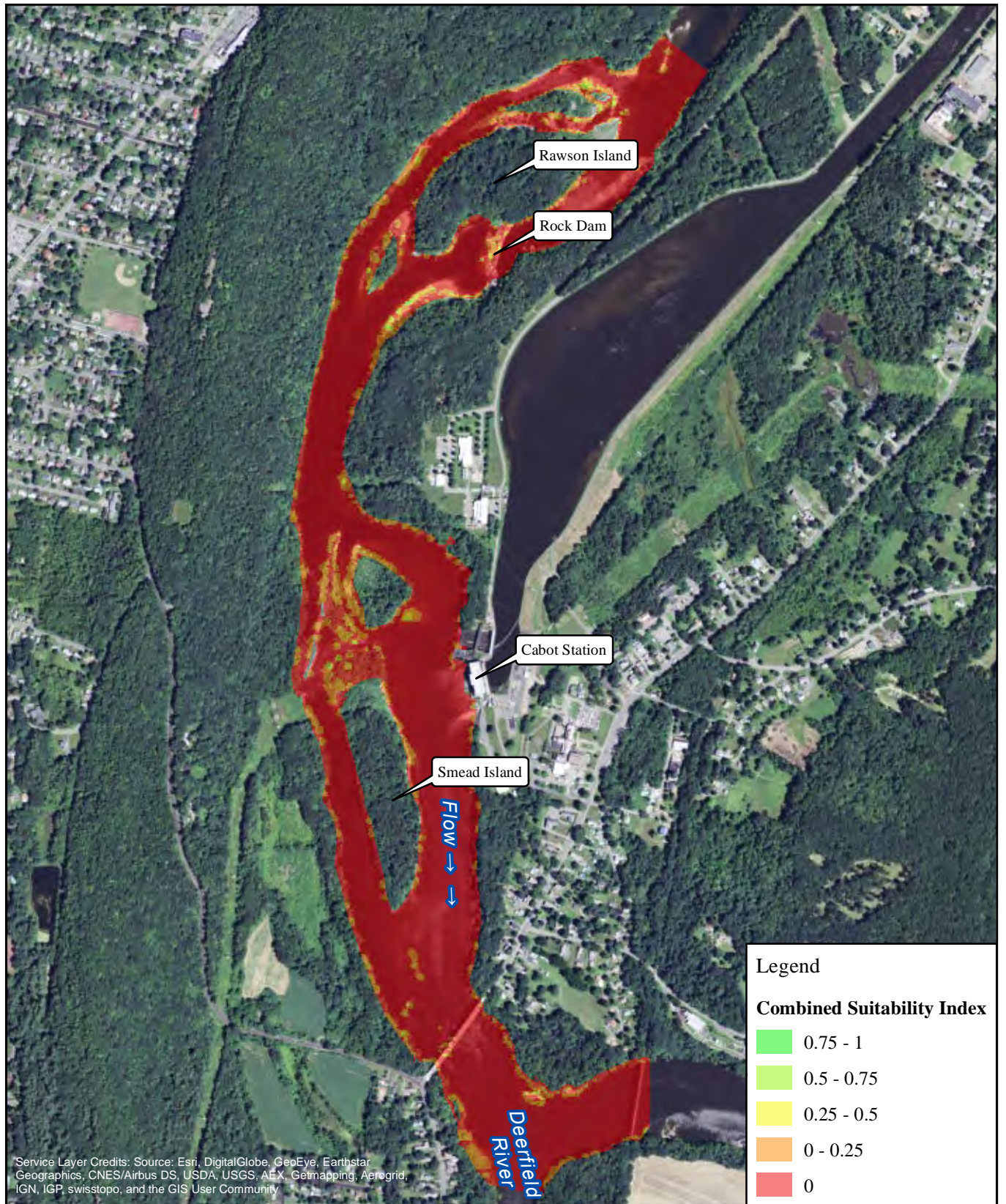
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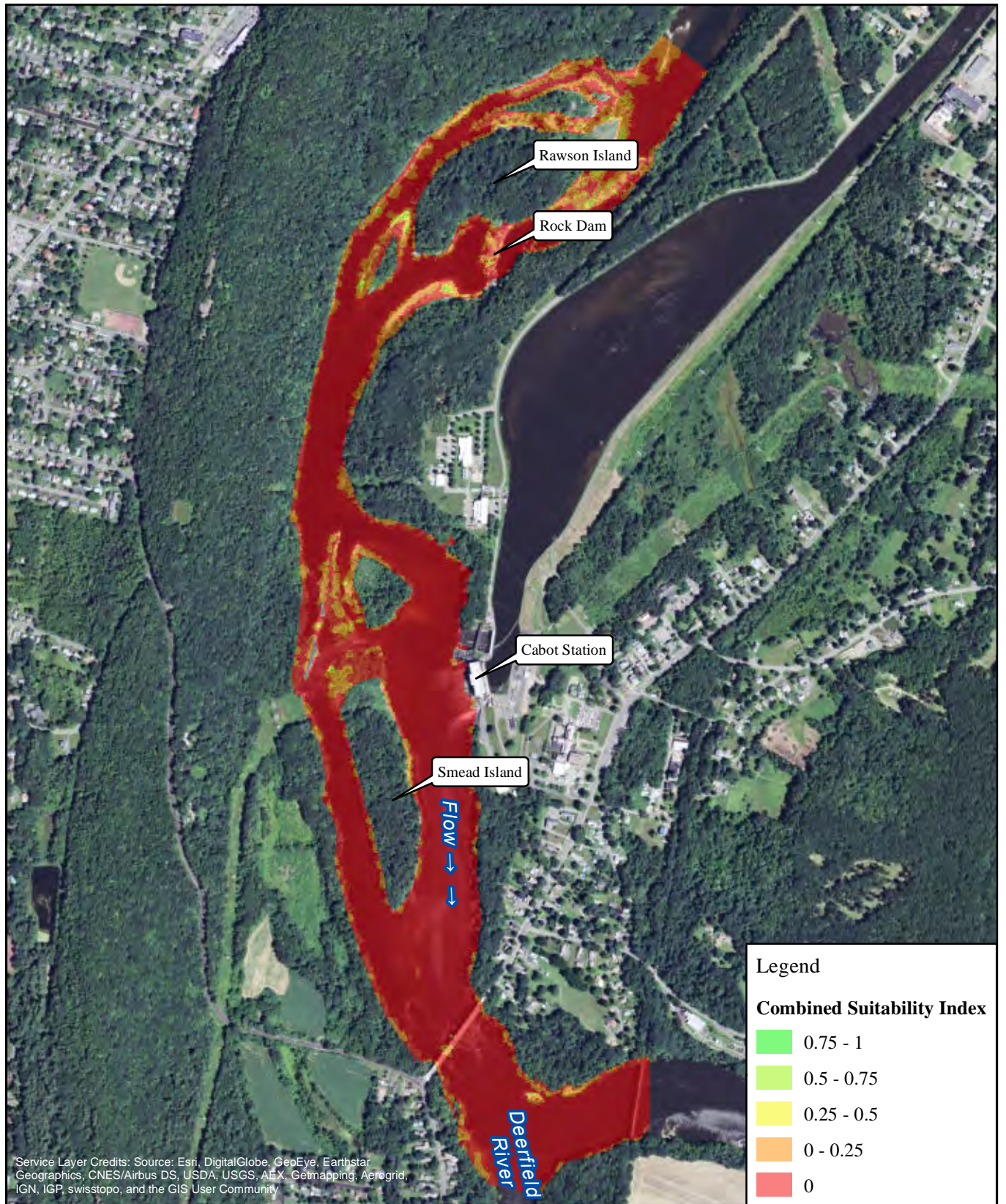
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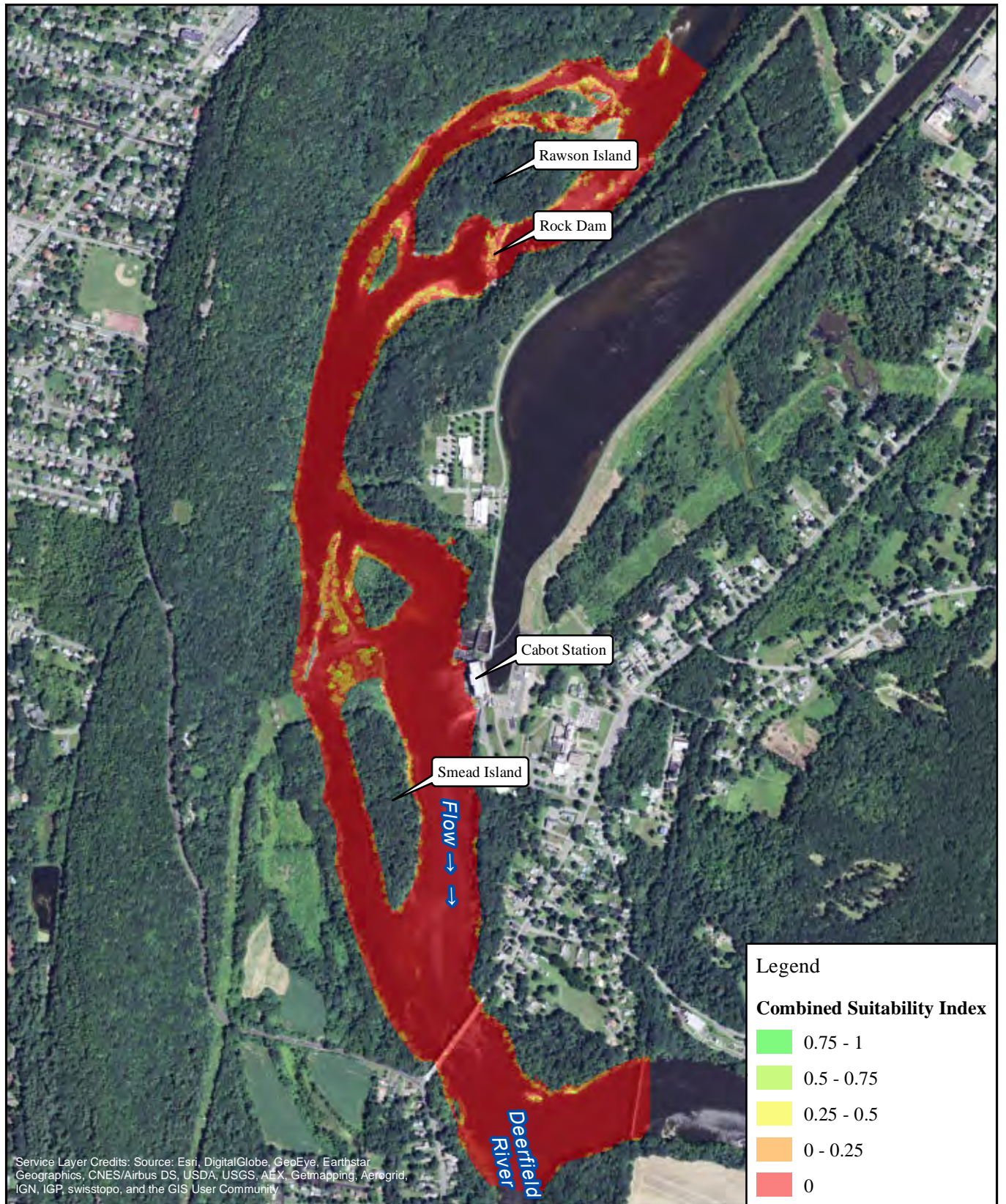
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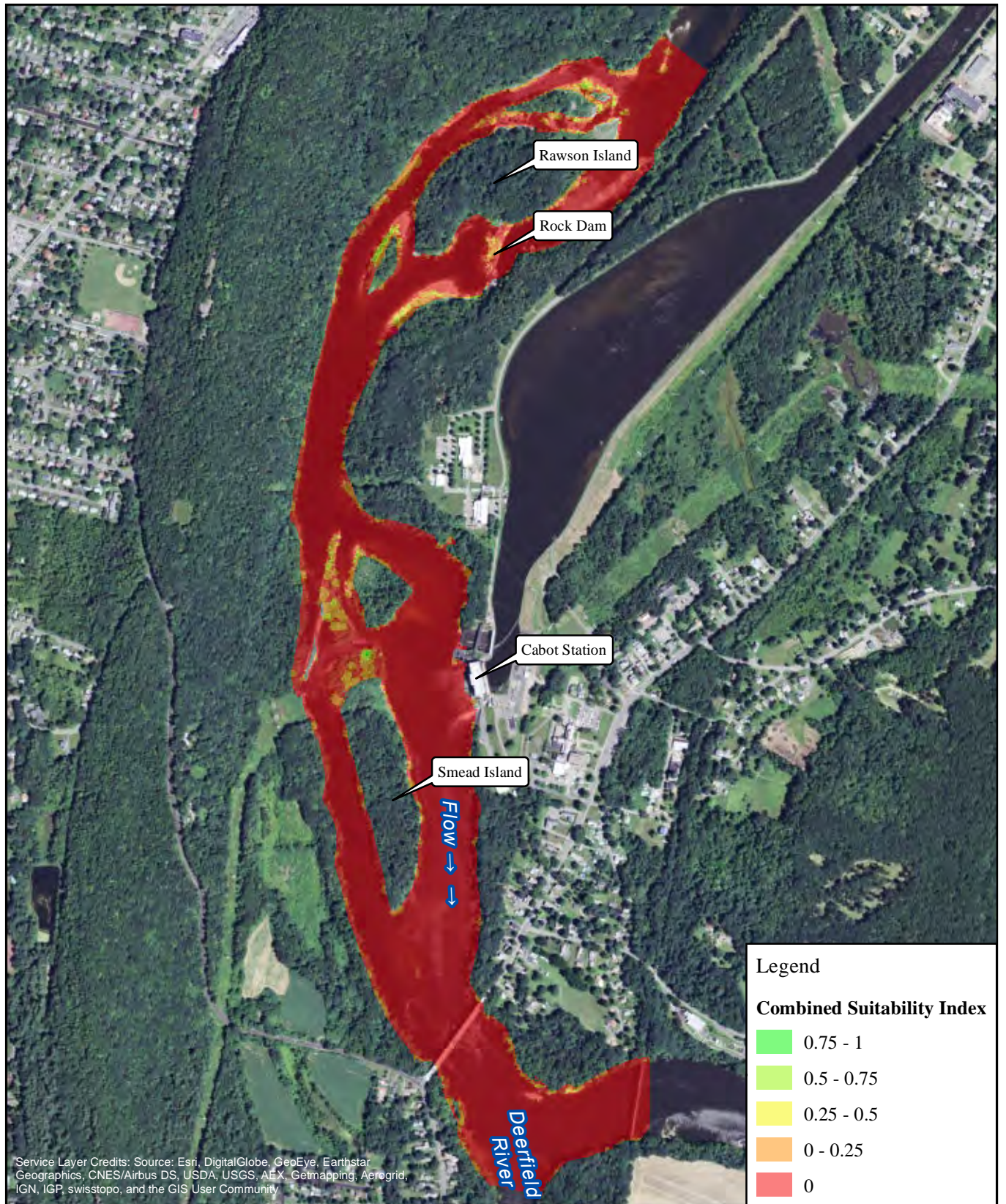
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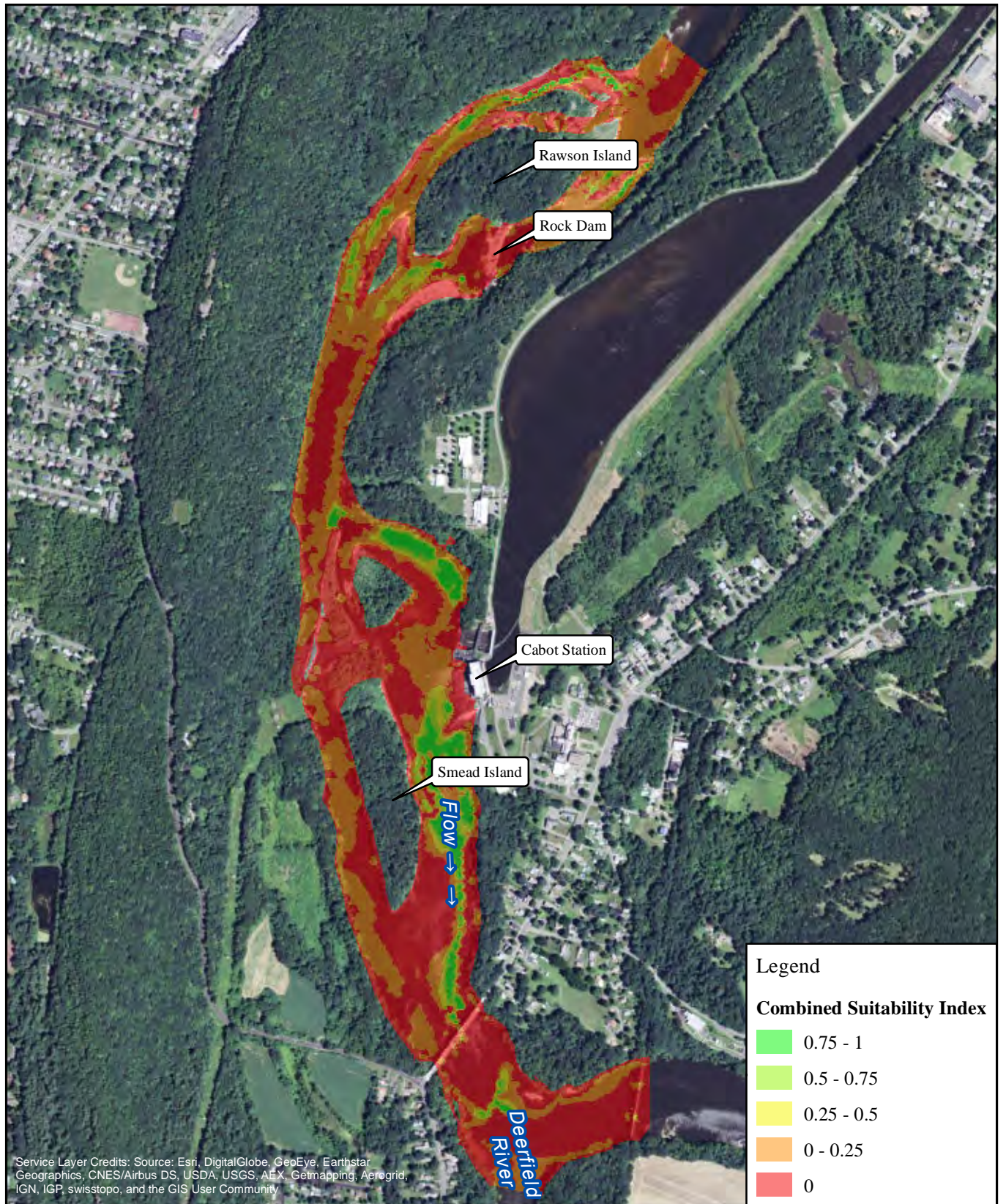
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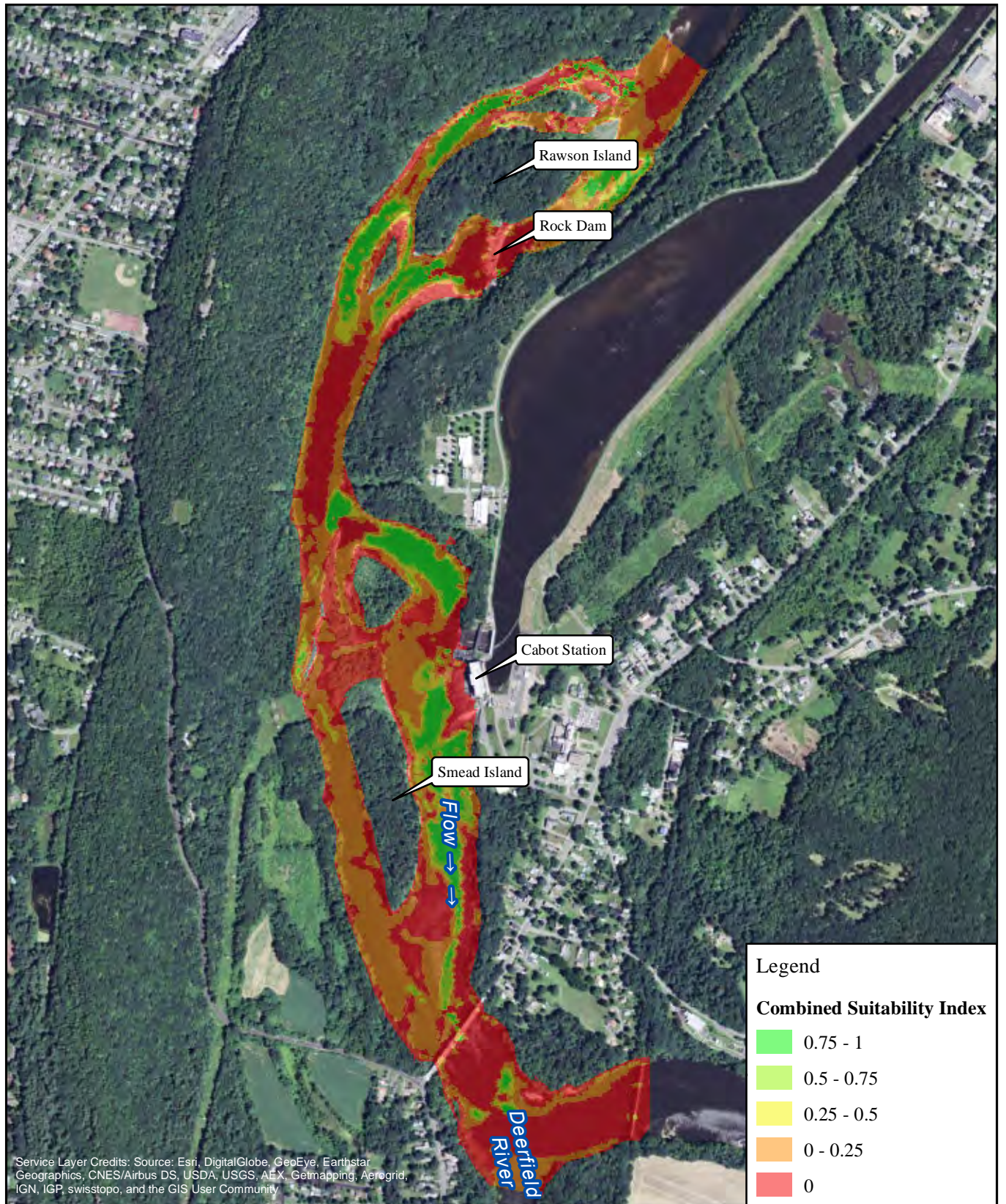
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Walleye-Spawning
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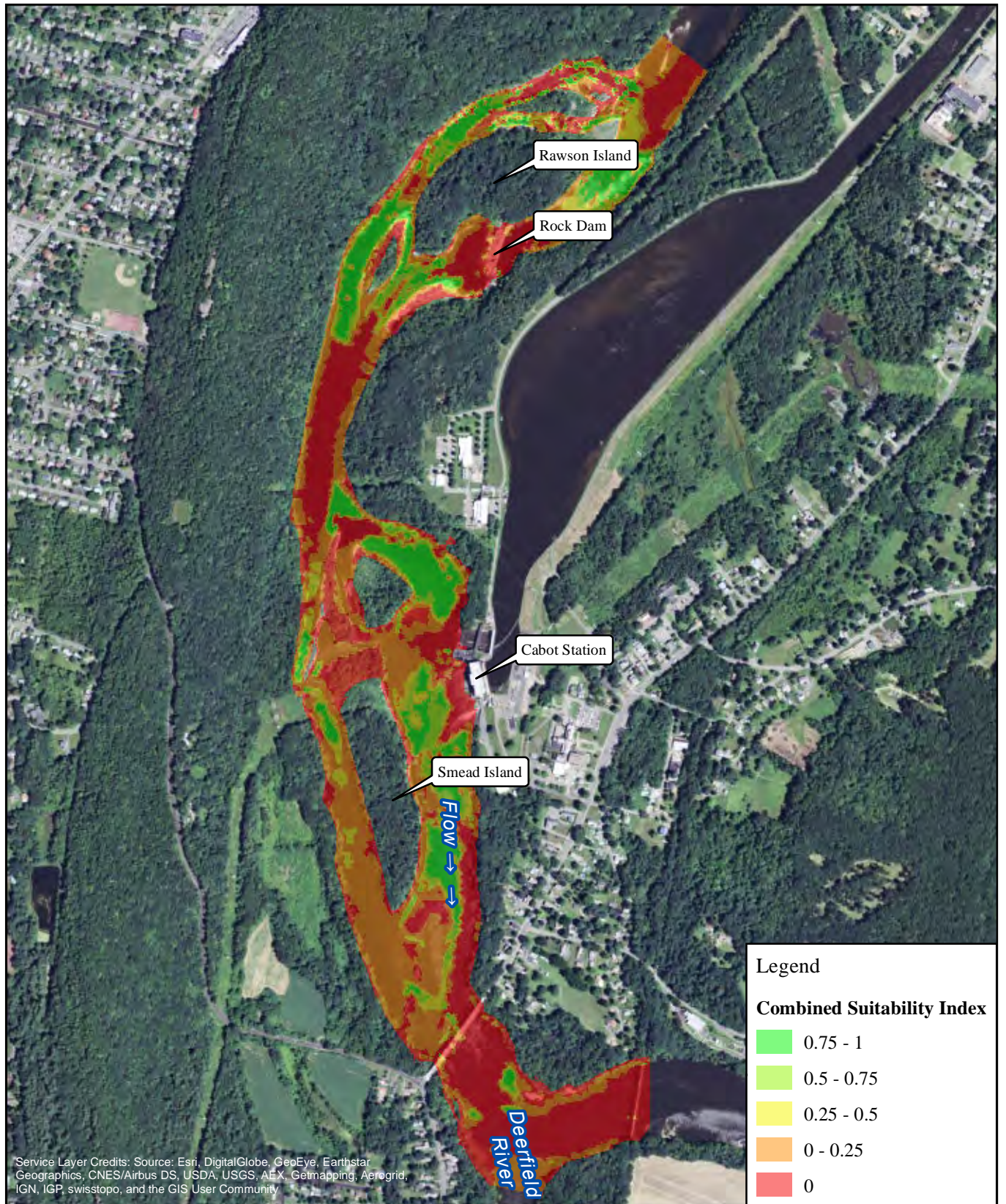
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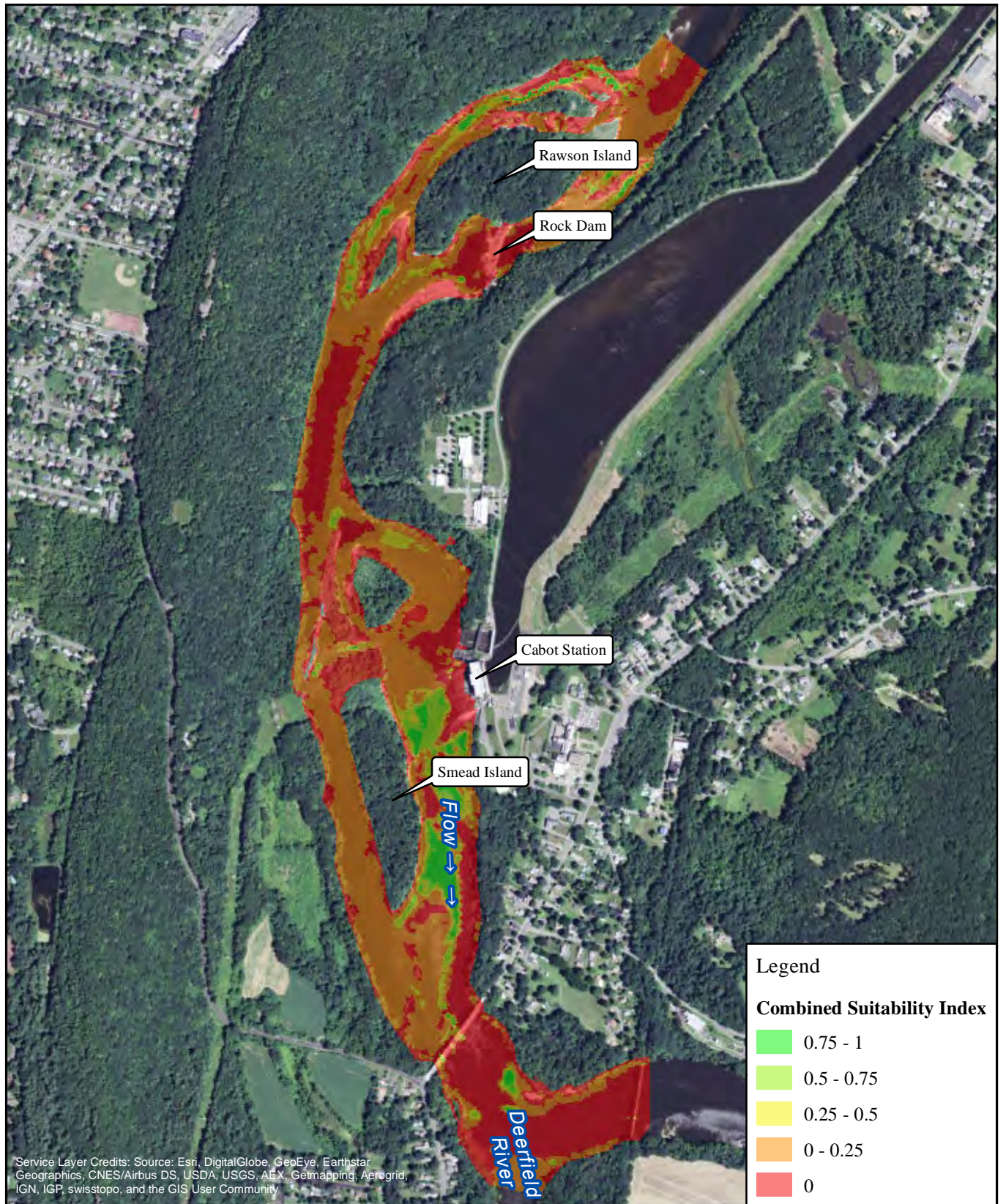
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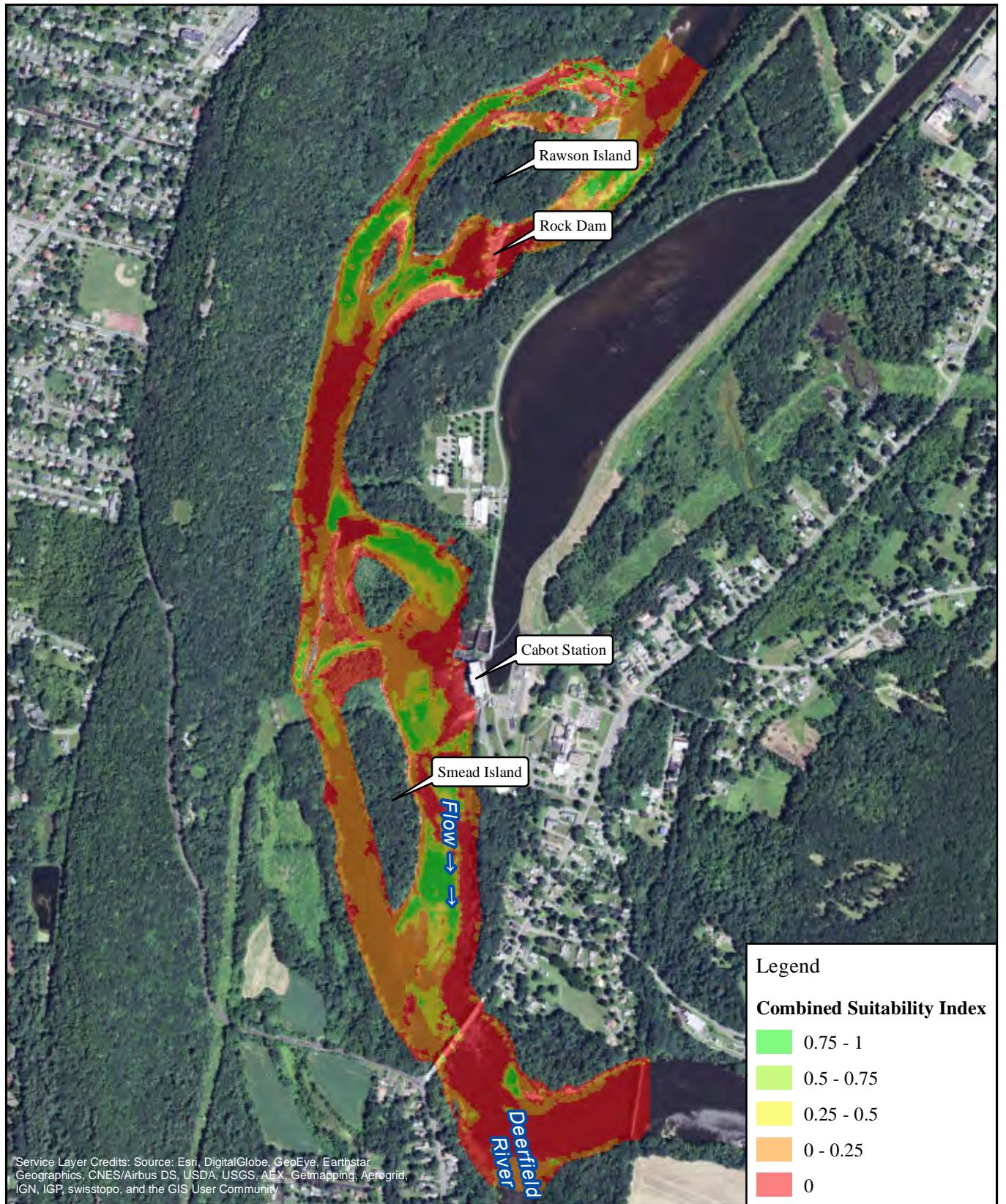
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Feet

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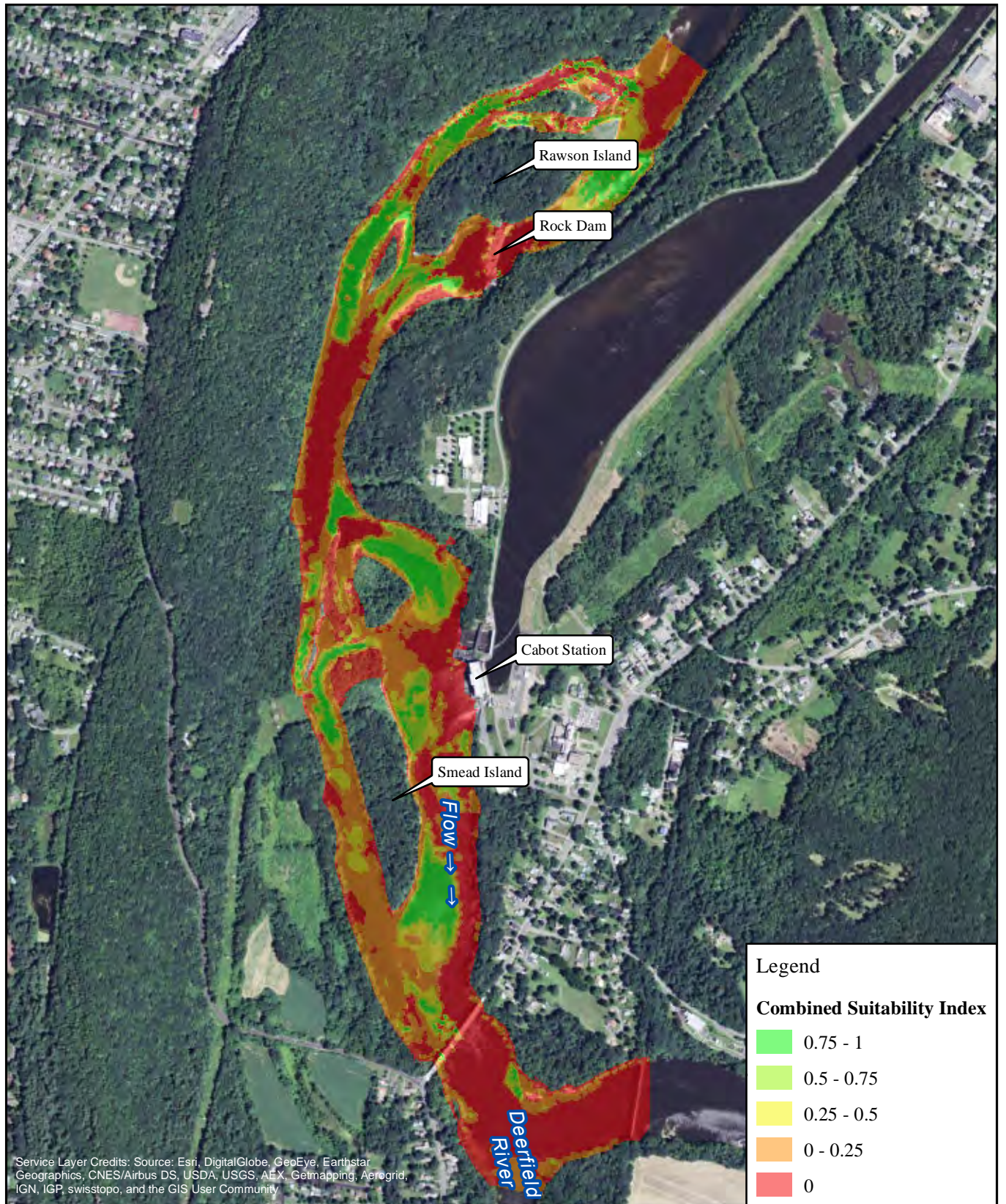
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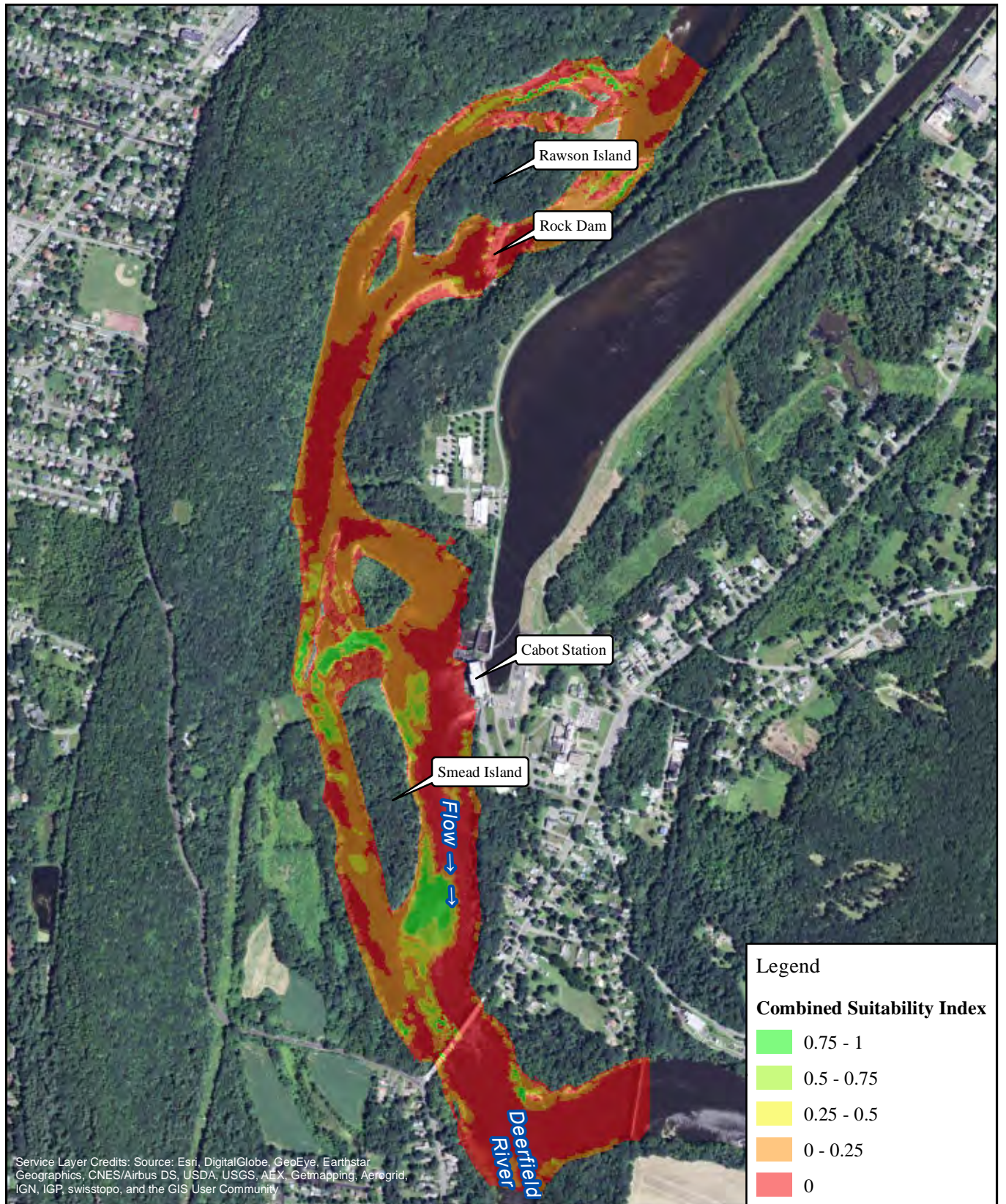
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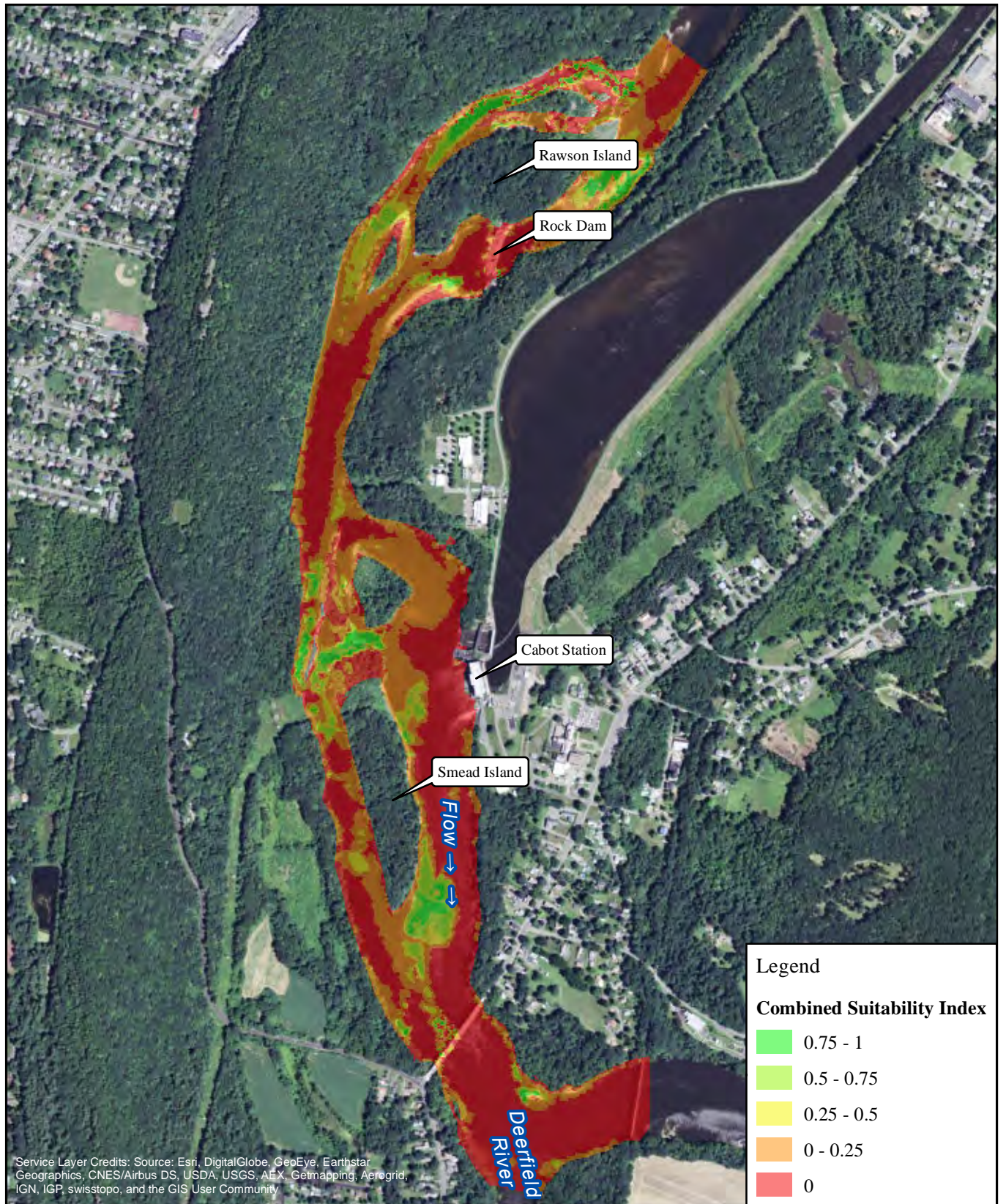
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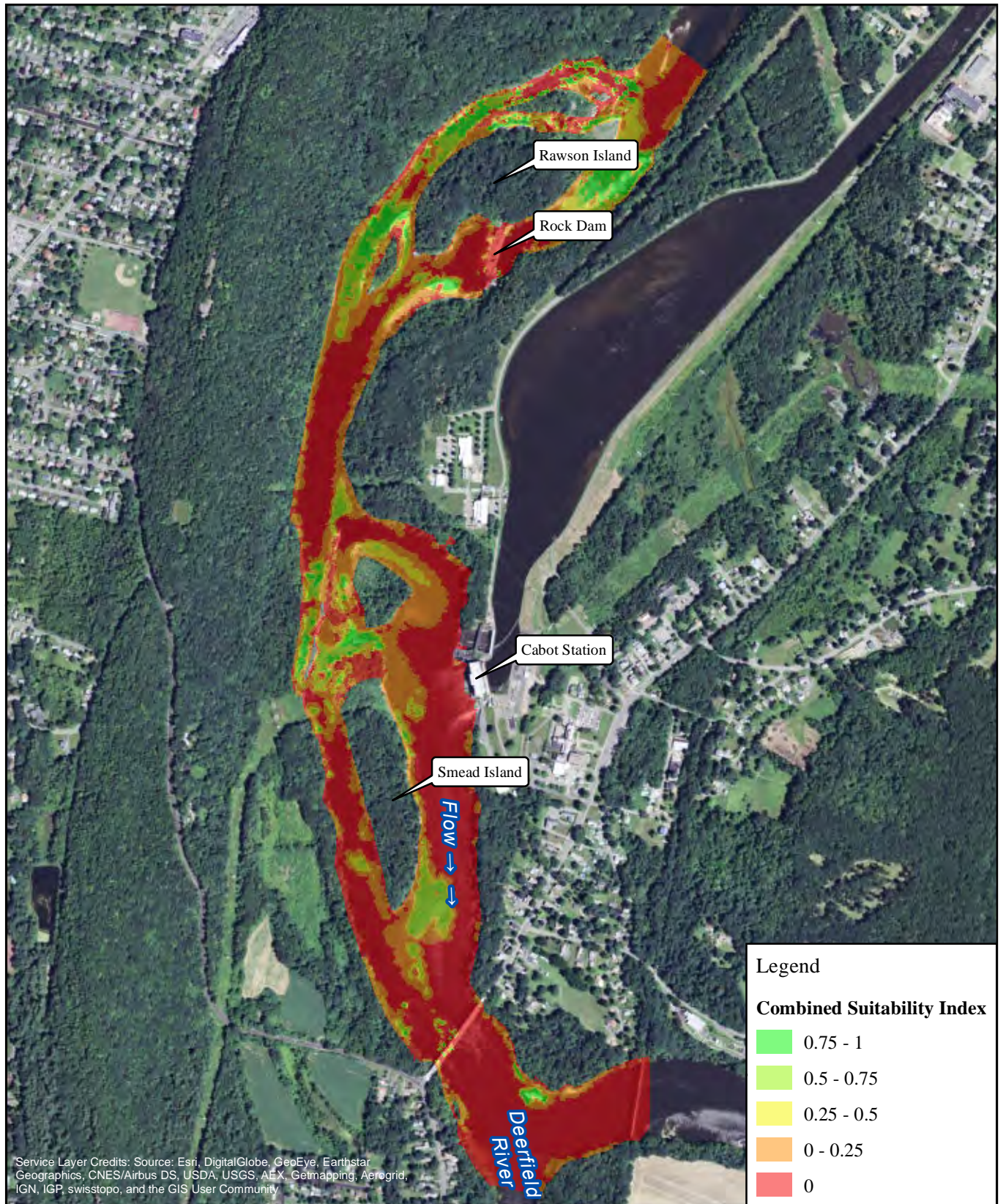
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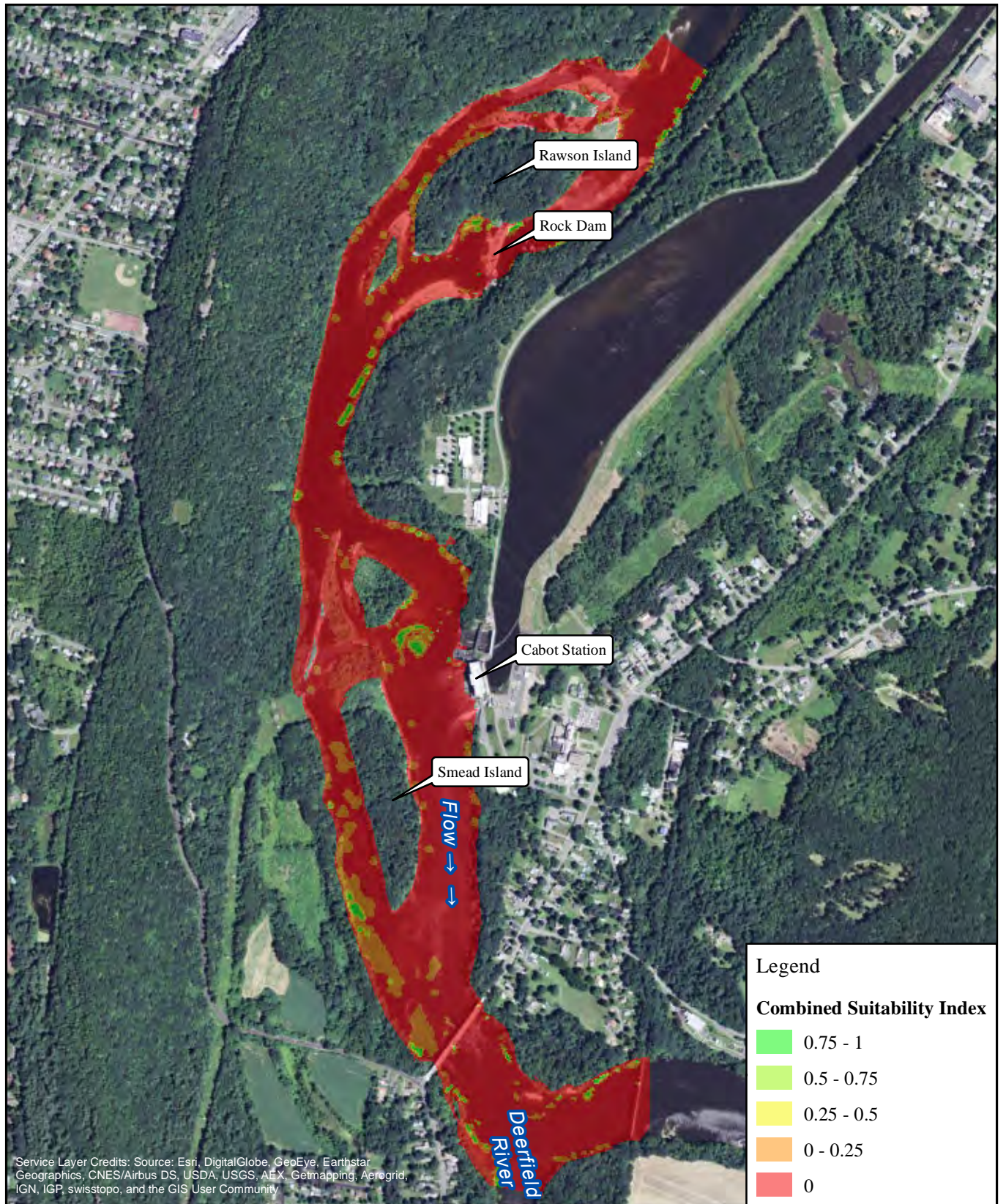
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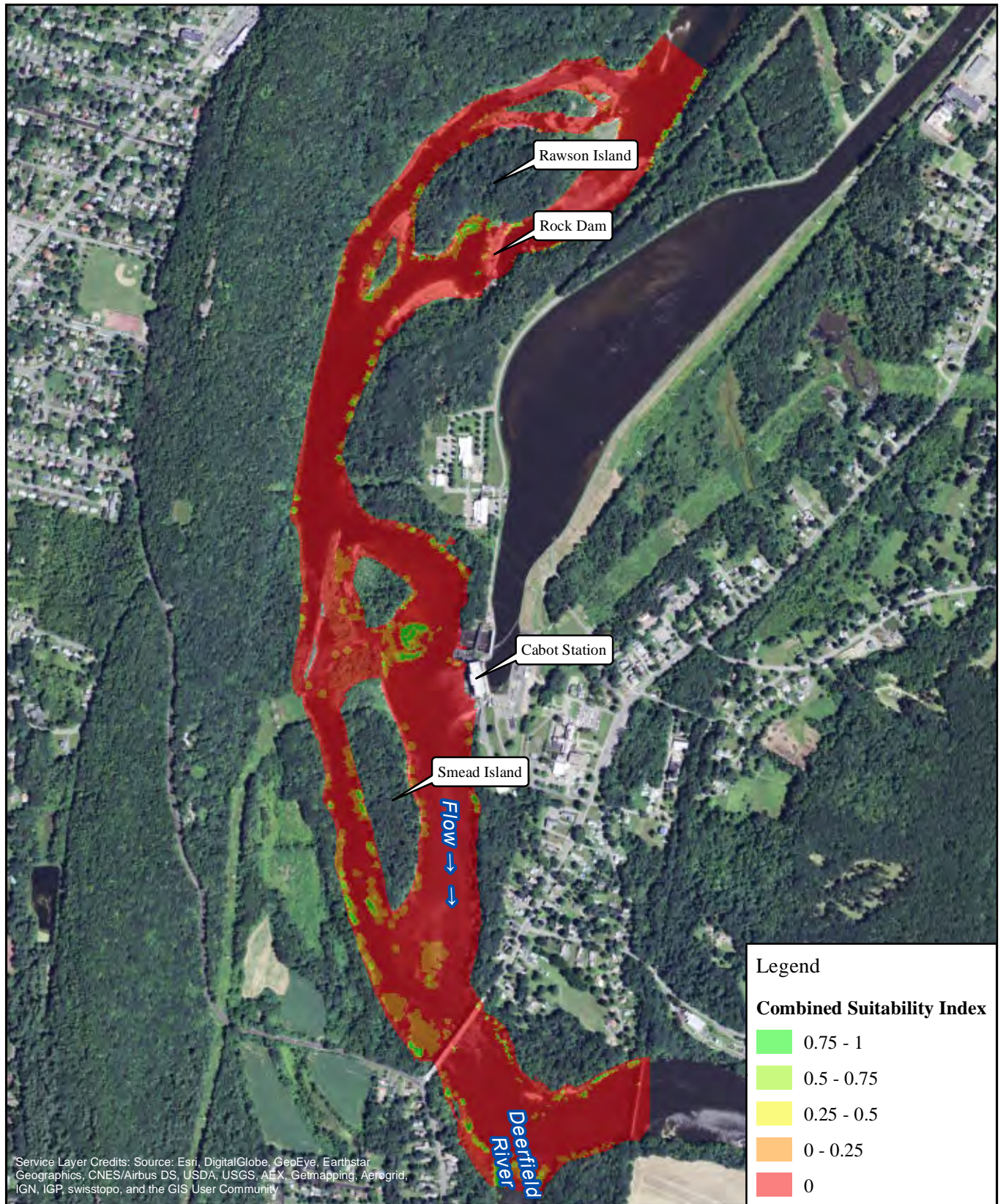
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Walleye-Fry
Cabot Flow: 2500 cfs
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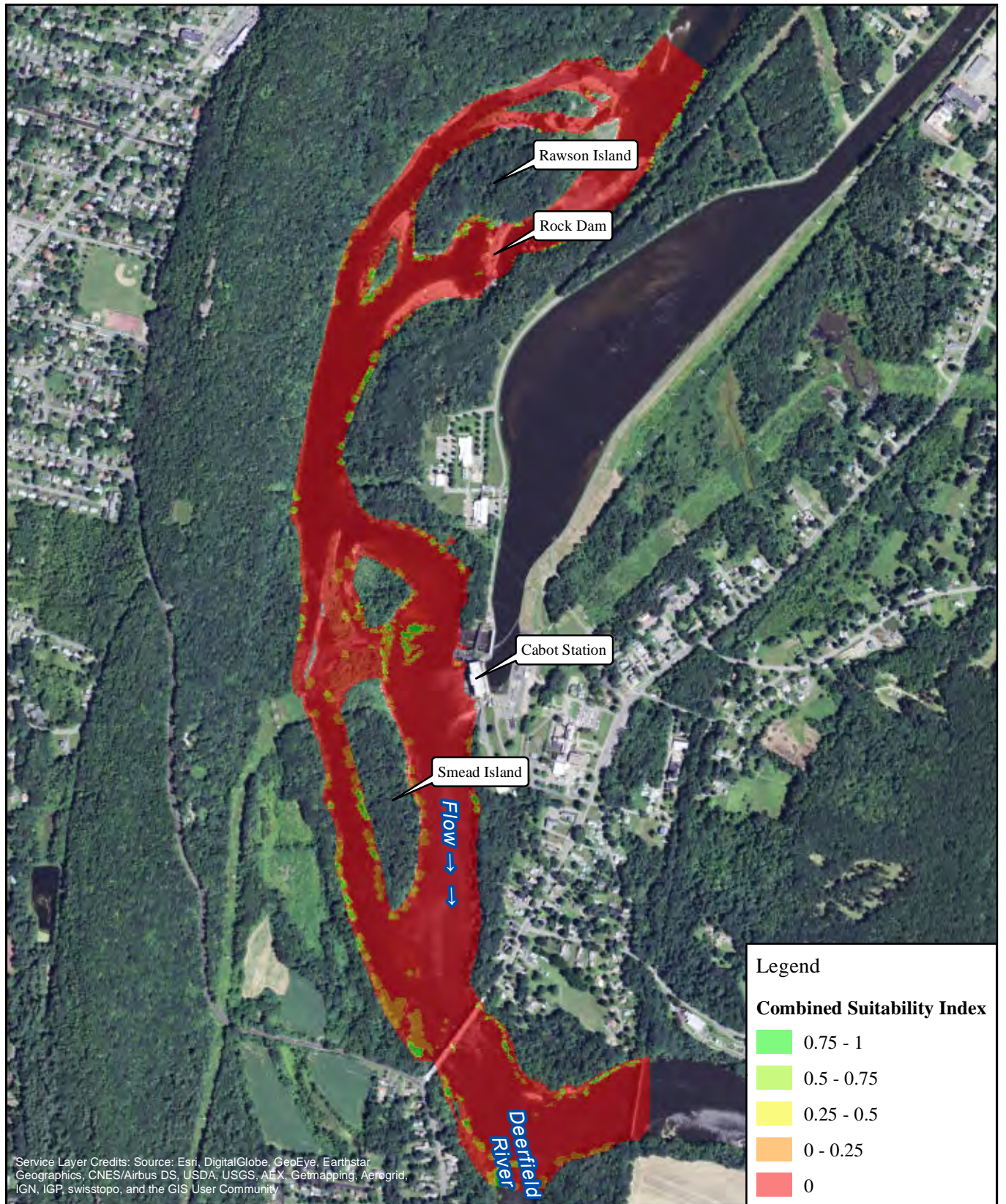
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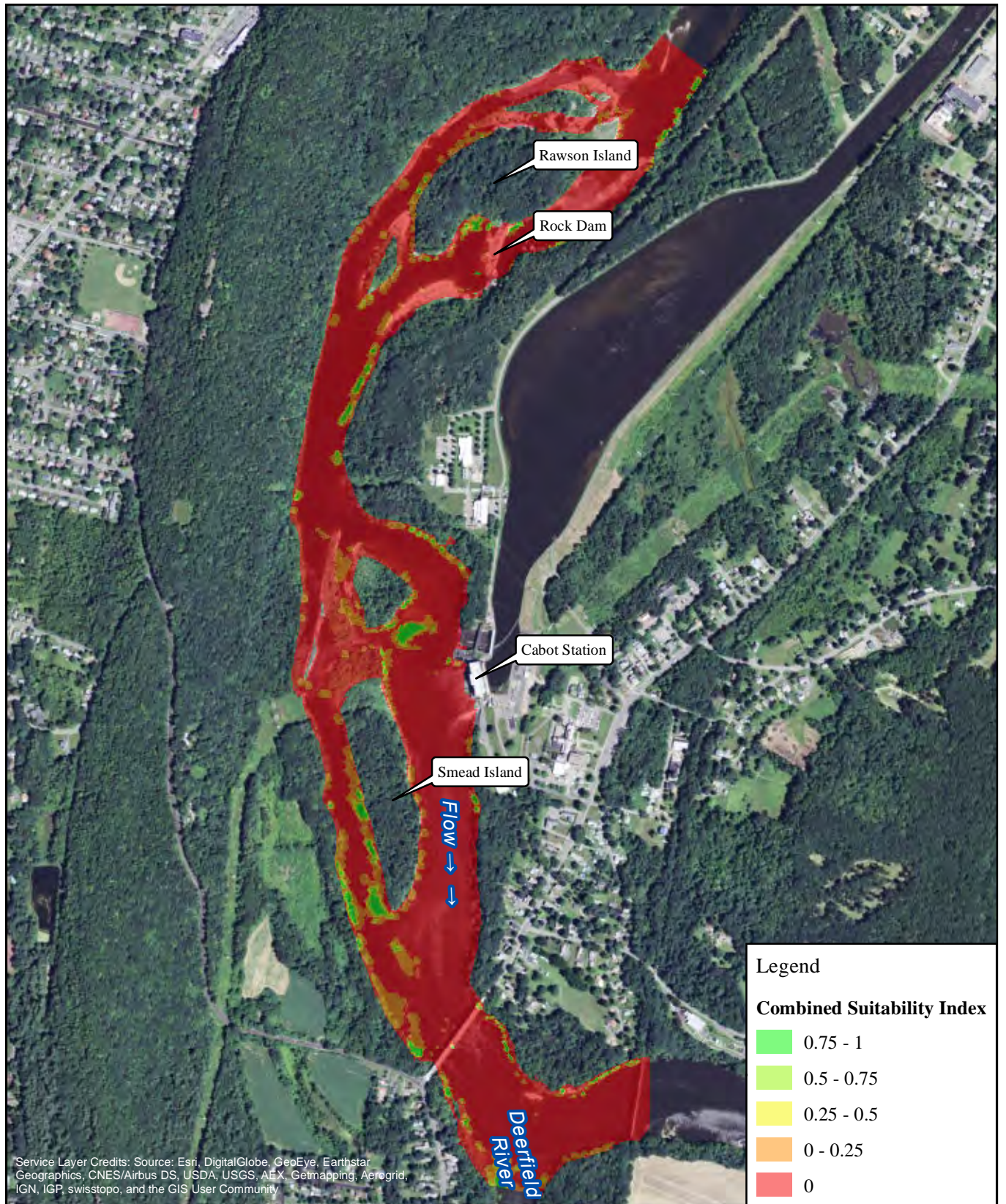
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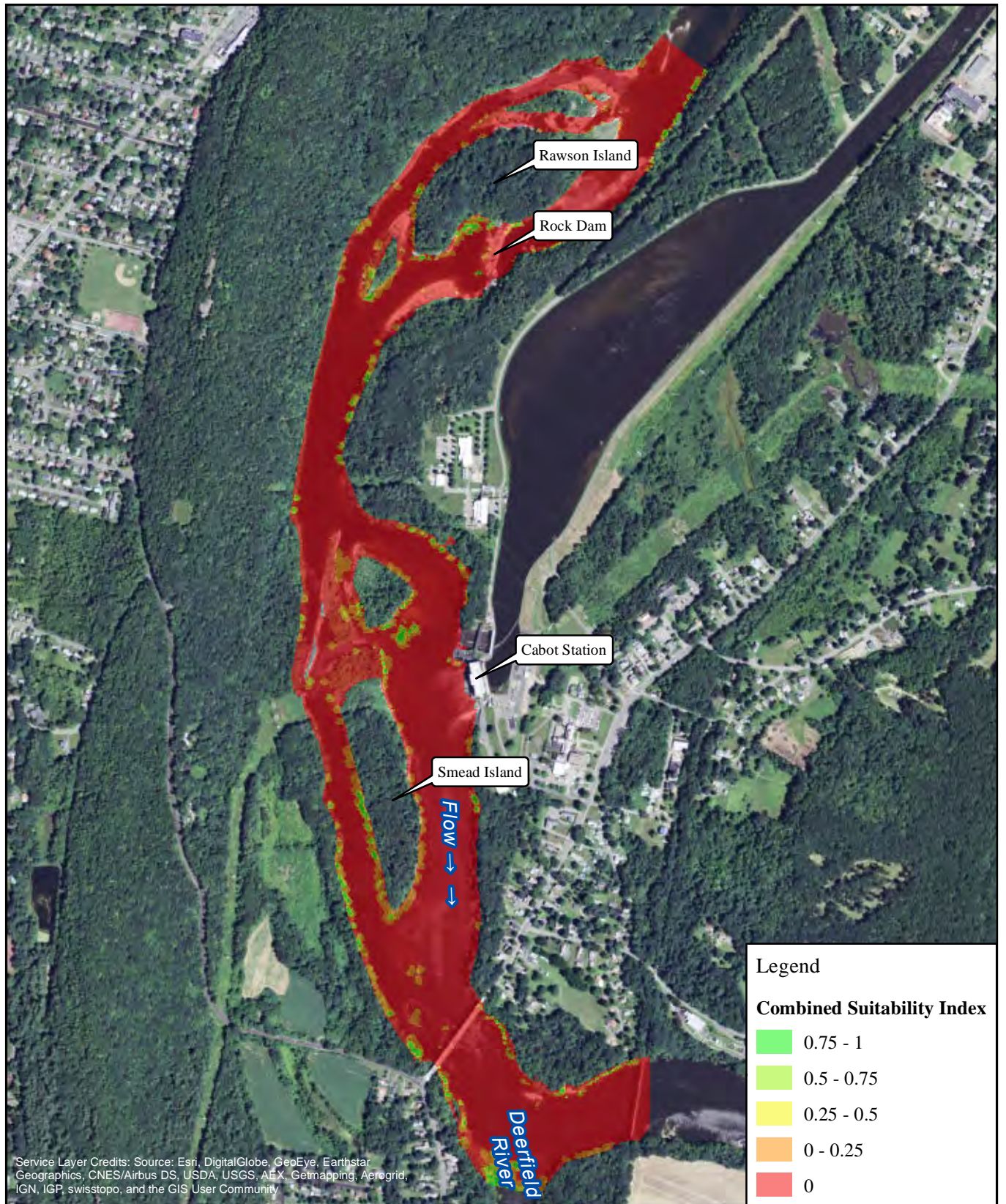
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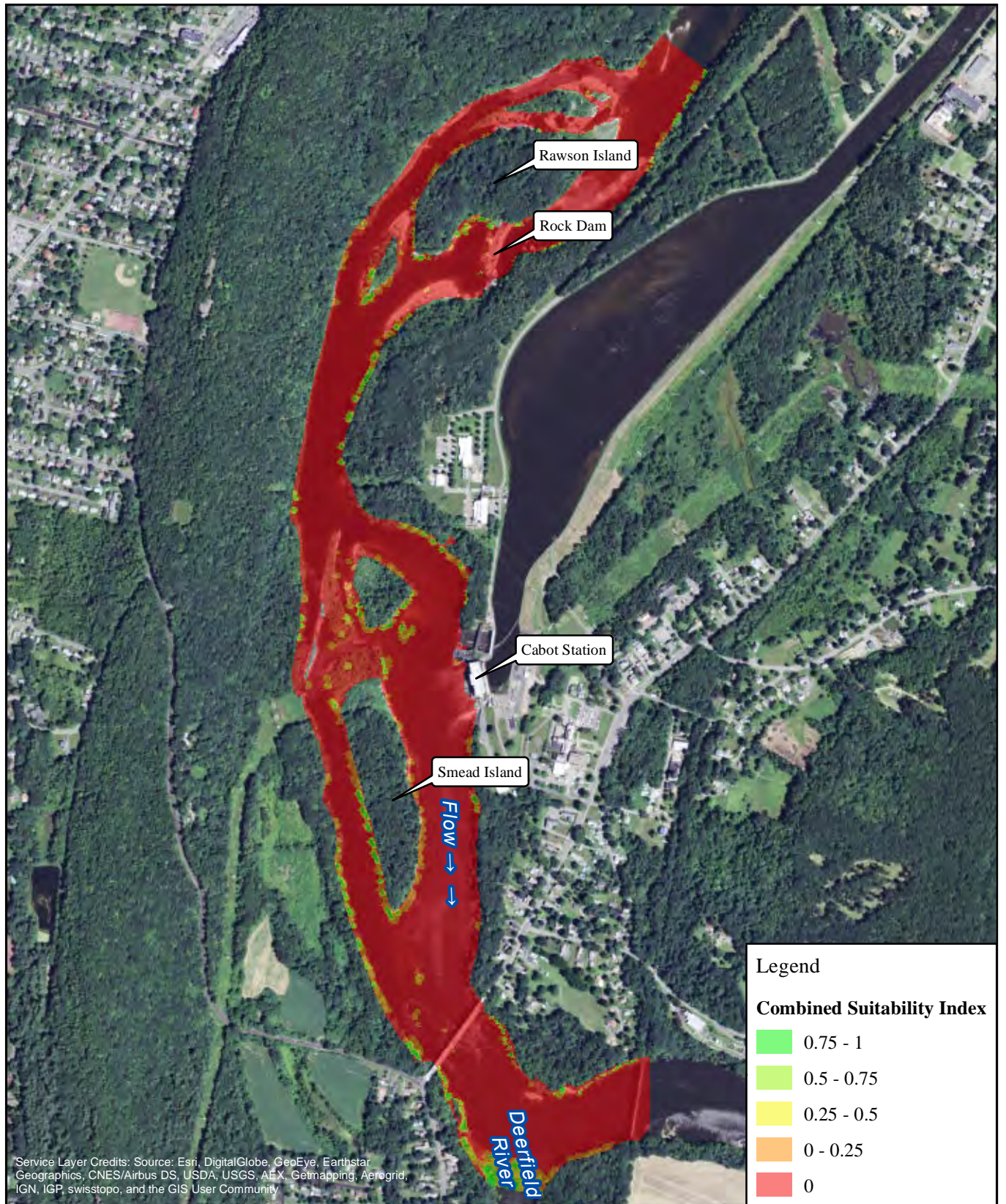
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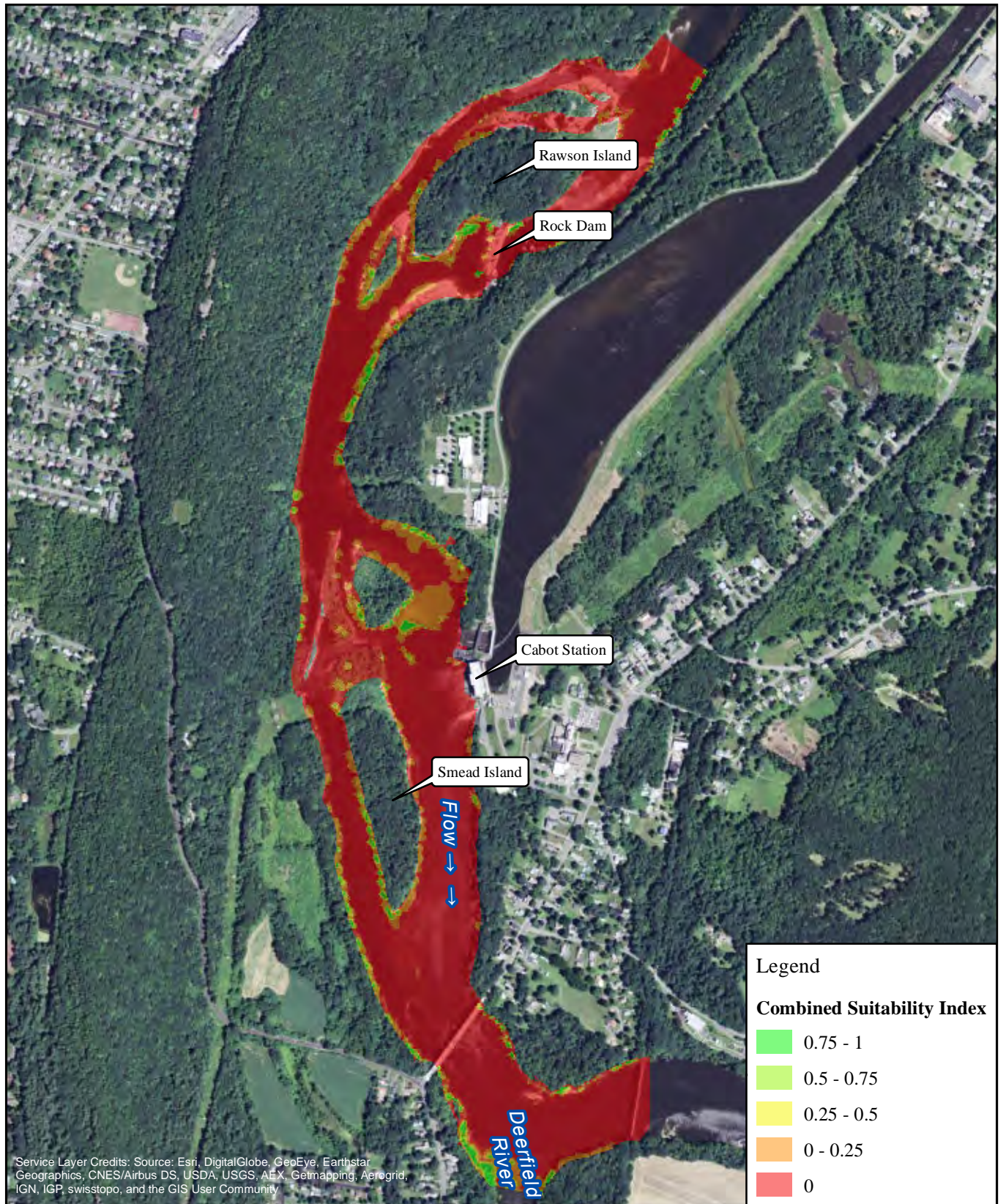
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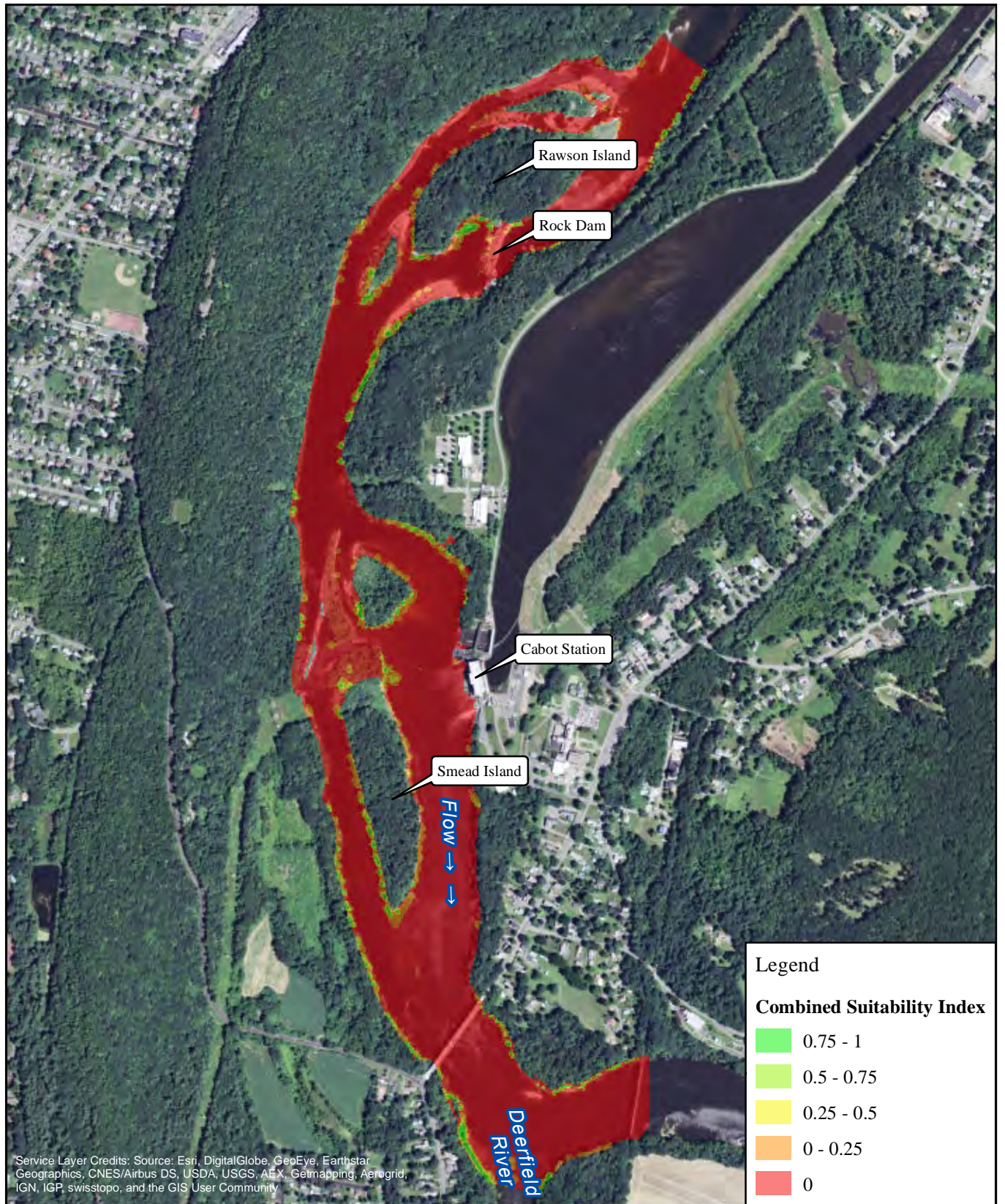
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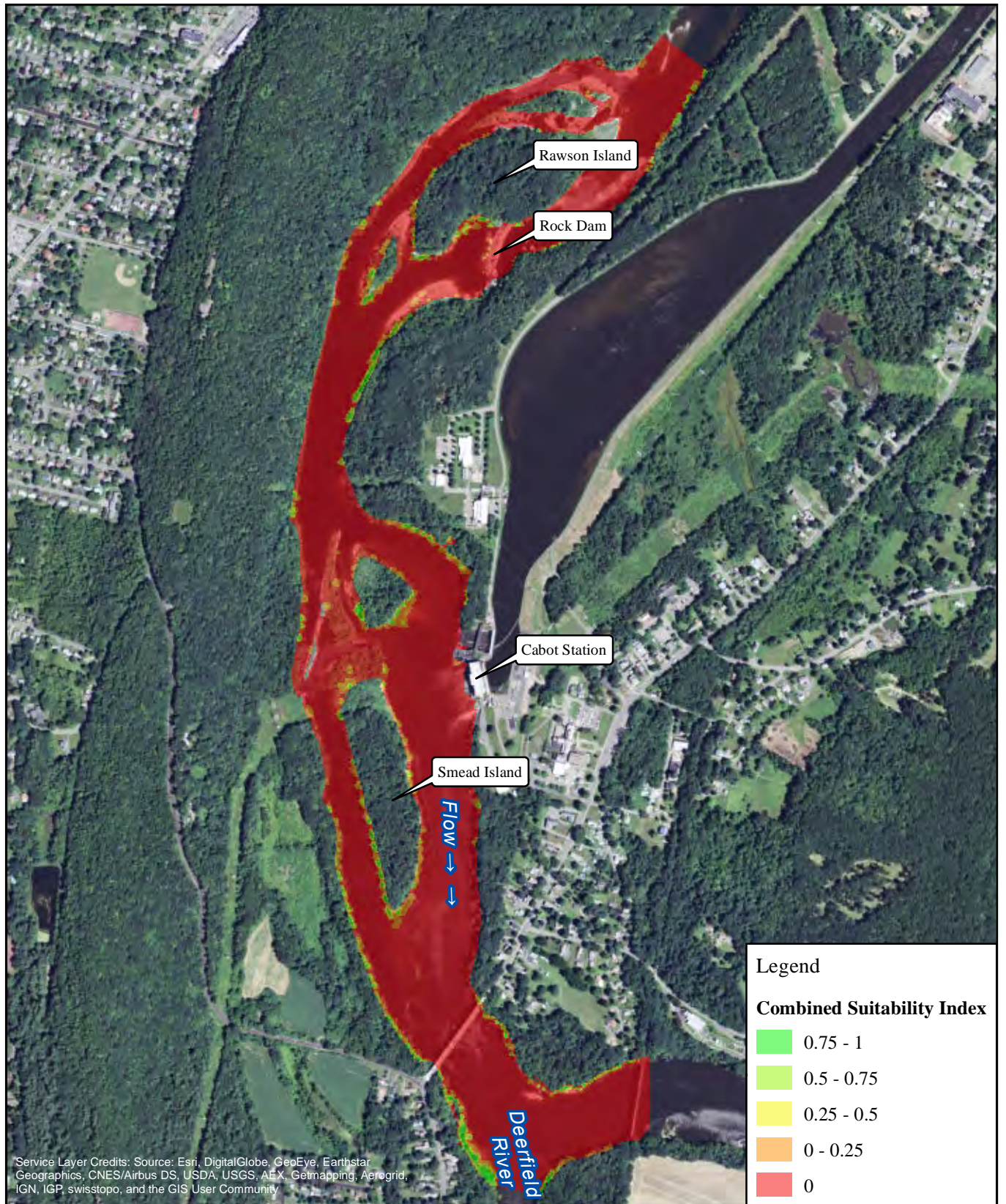
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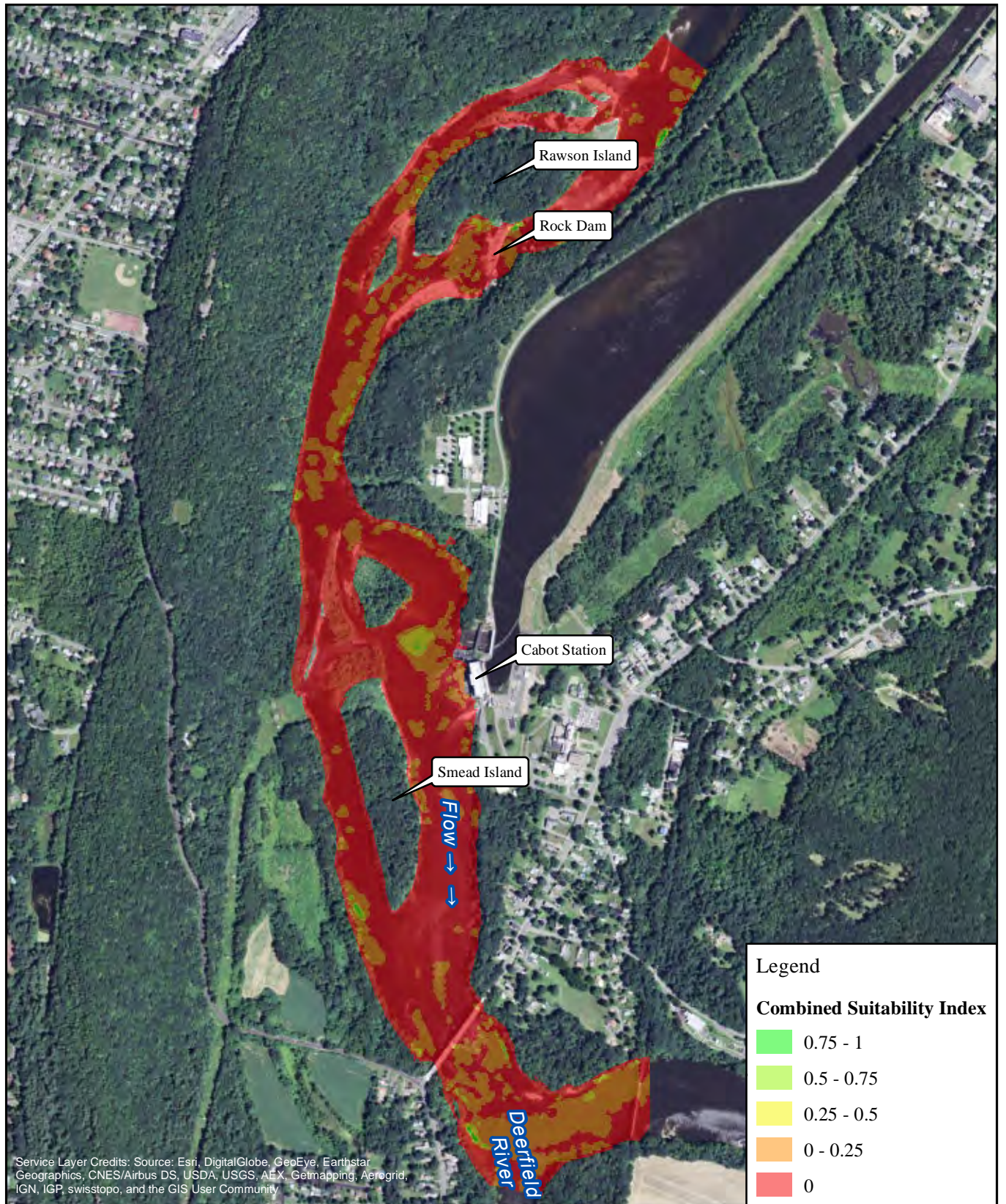
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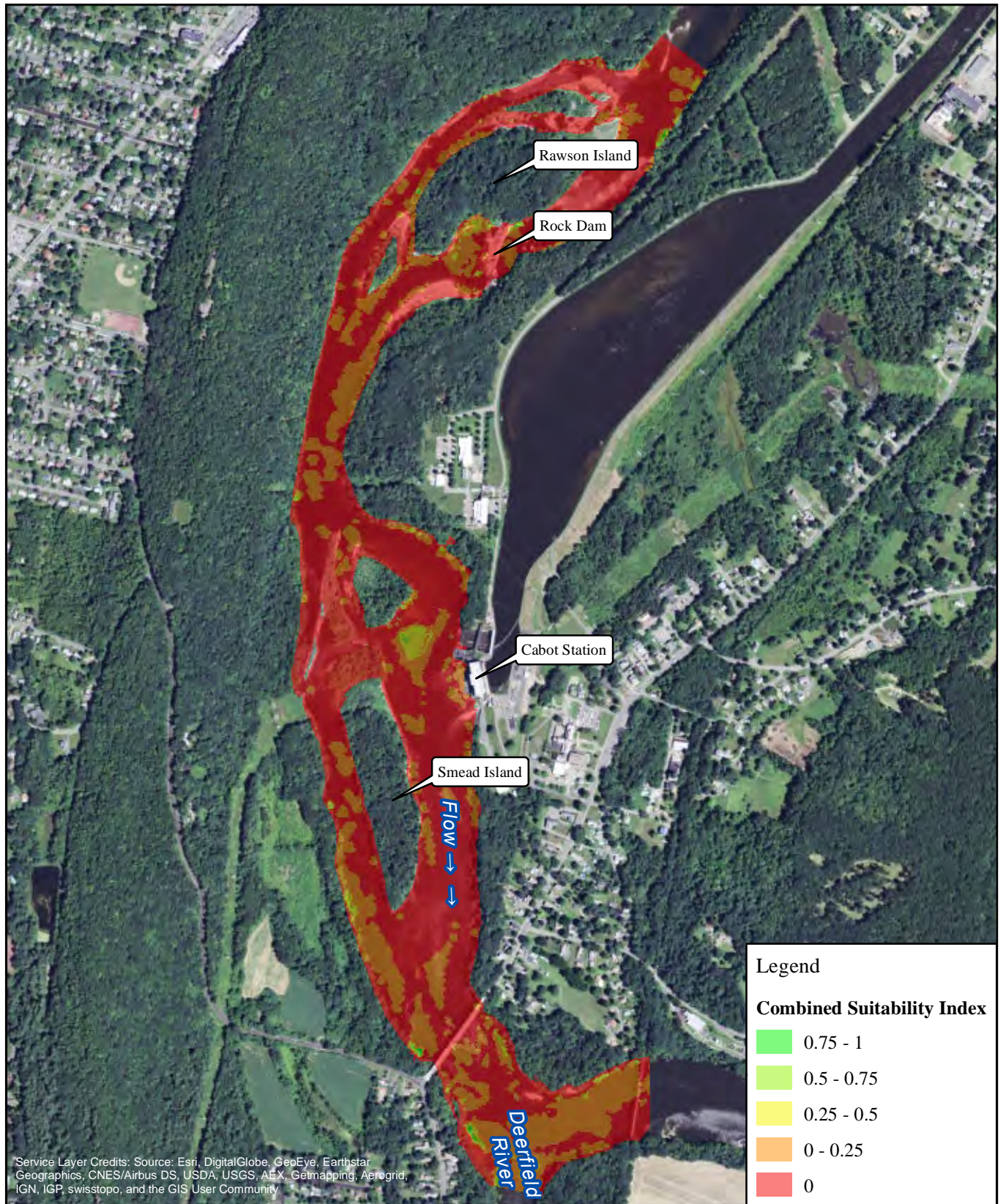
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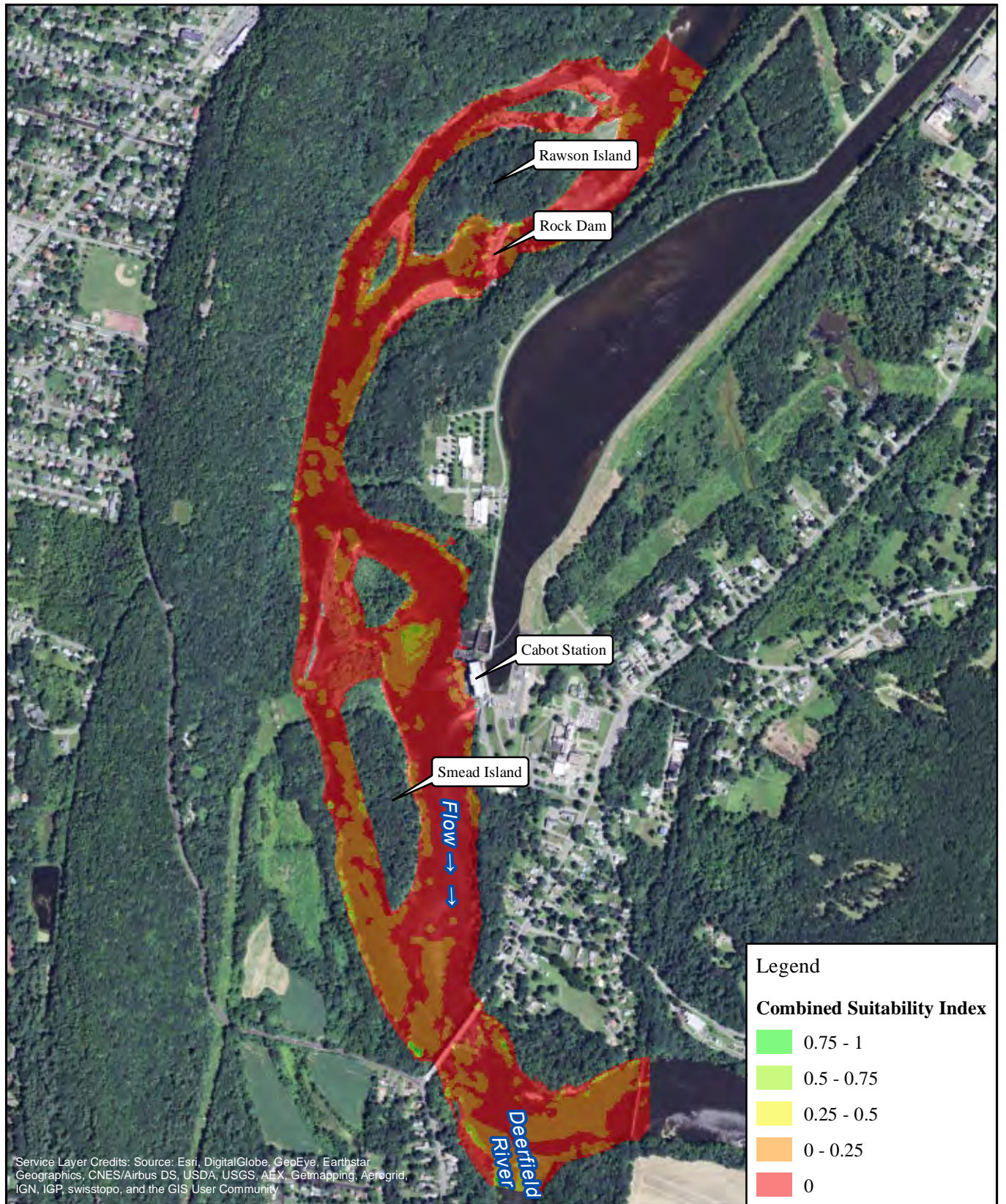
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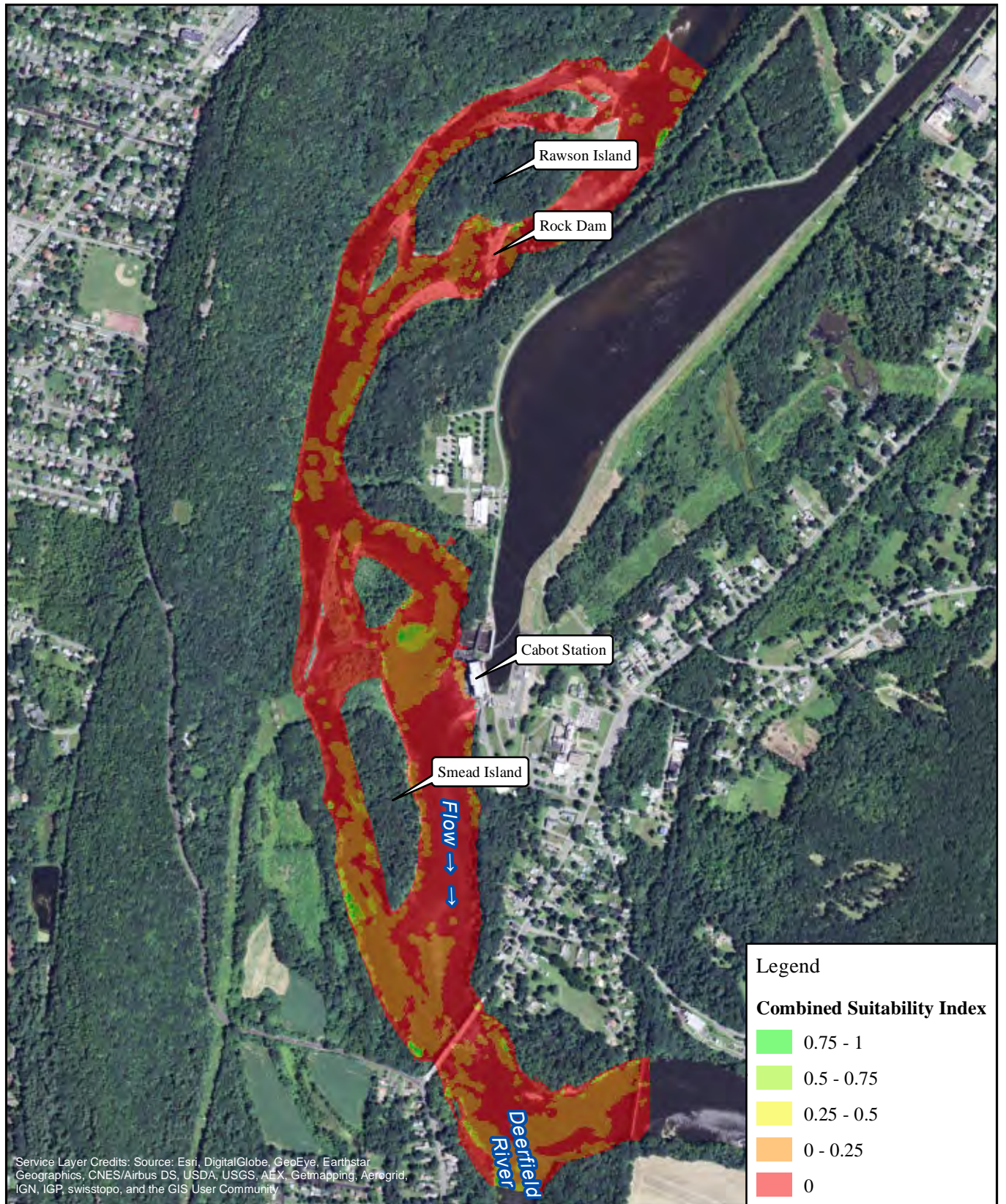
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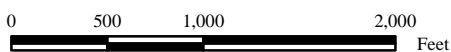
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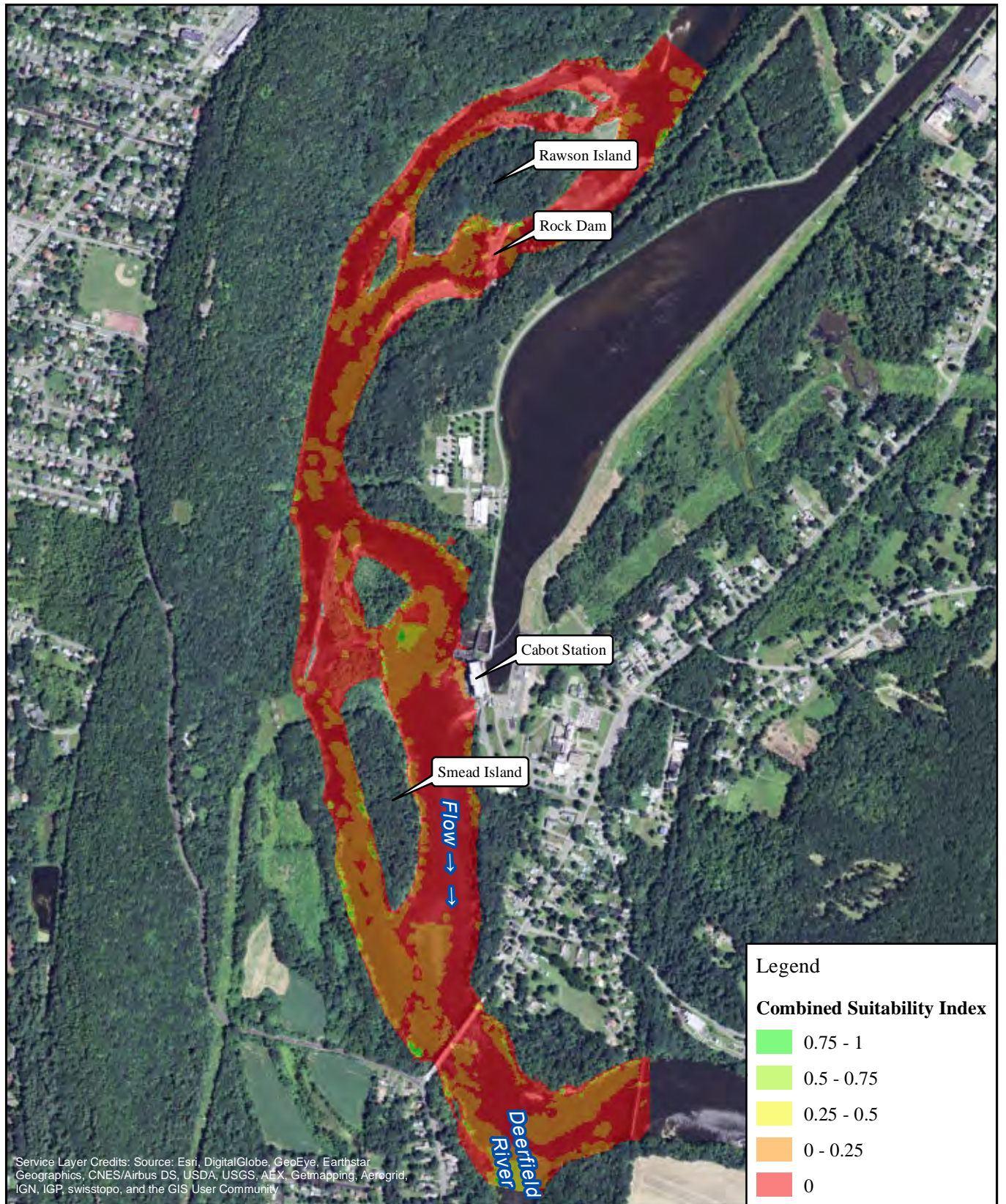


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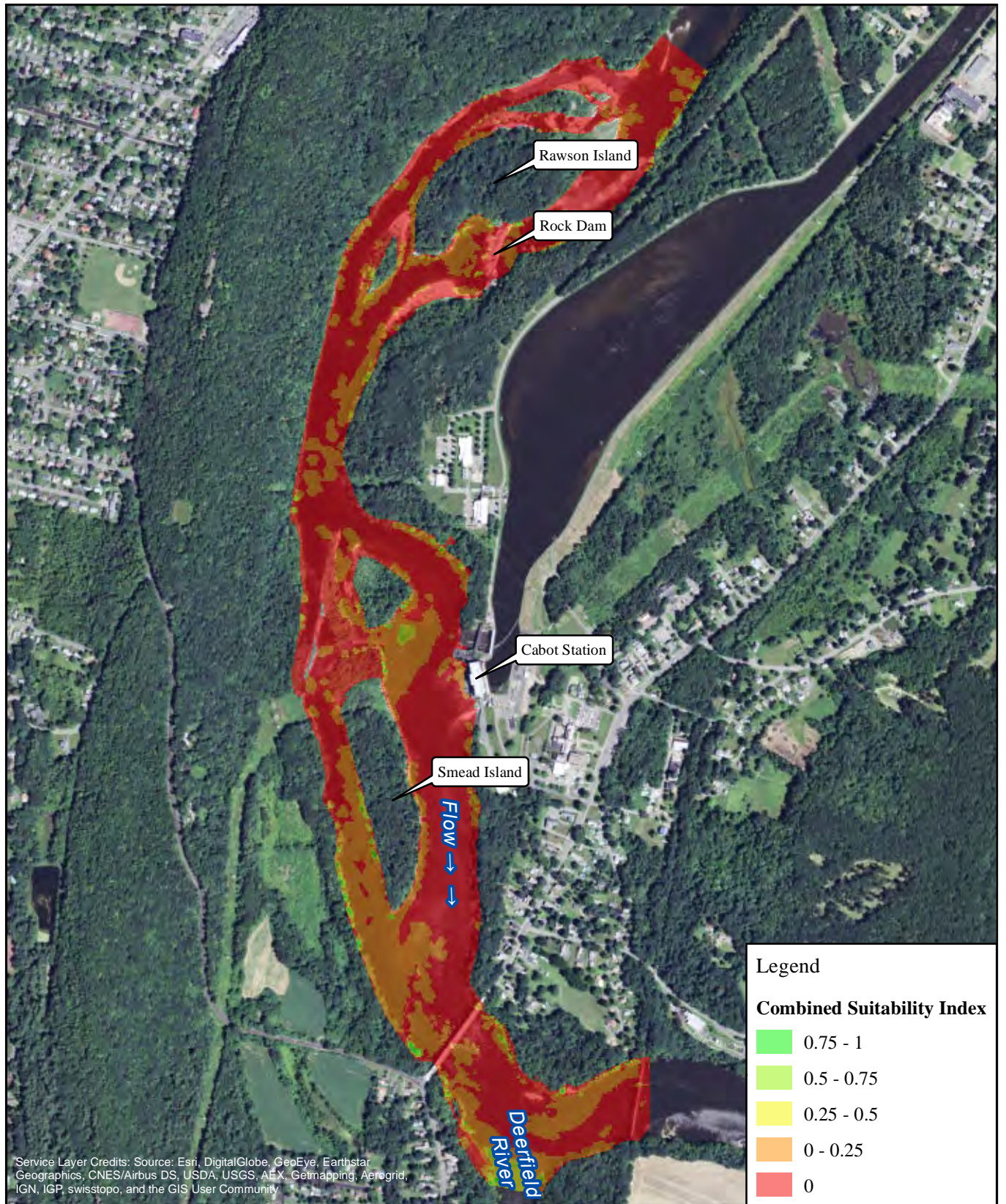
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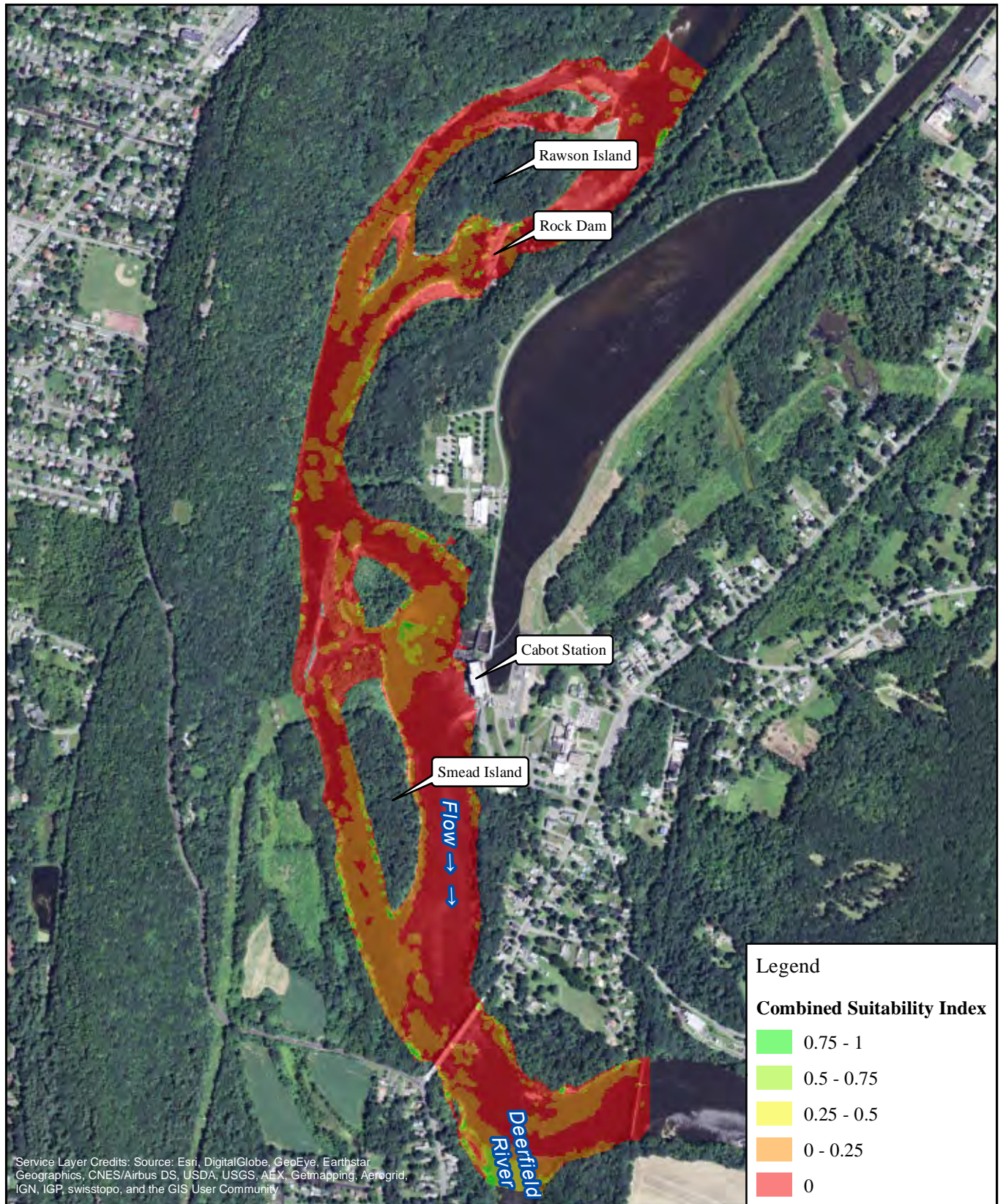
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Walleye-Juvenile
Cabot Flow: 7000 cfs
Bypass Flow: 5000 cfs
Deerfield Flow: 200 cfs

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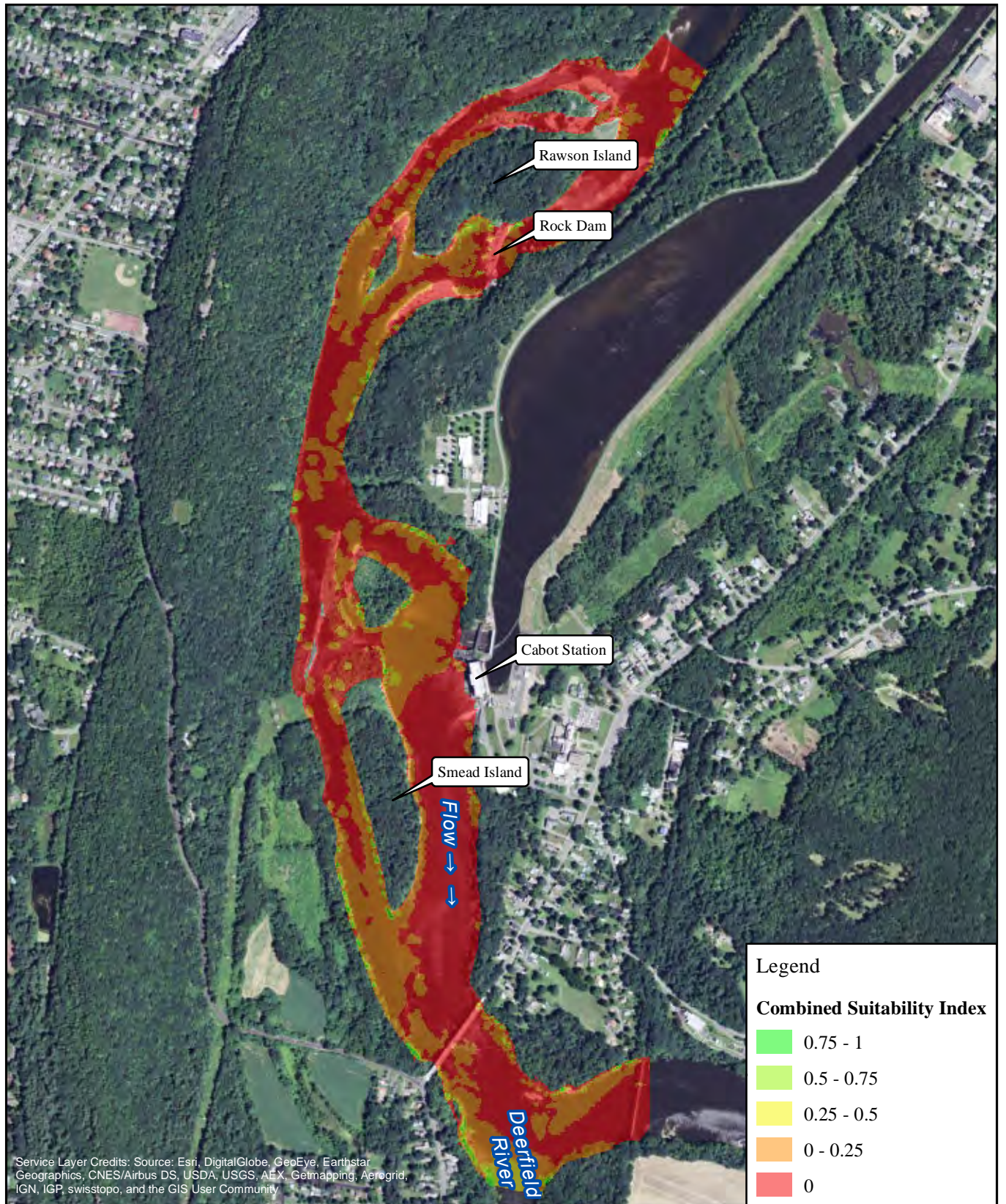
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Feet

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Cabot Flow: 14000 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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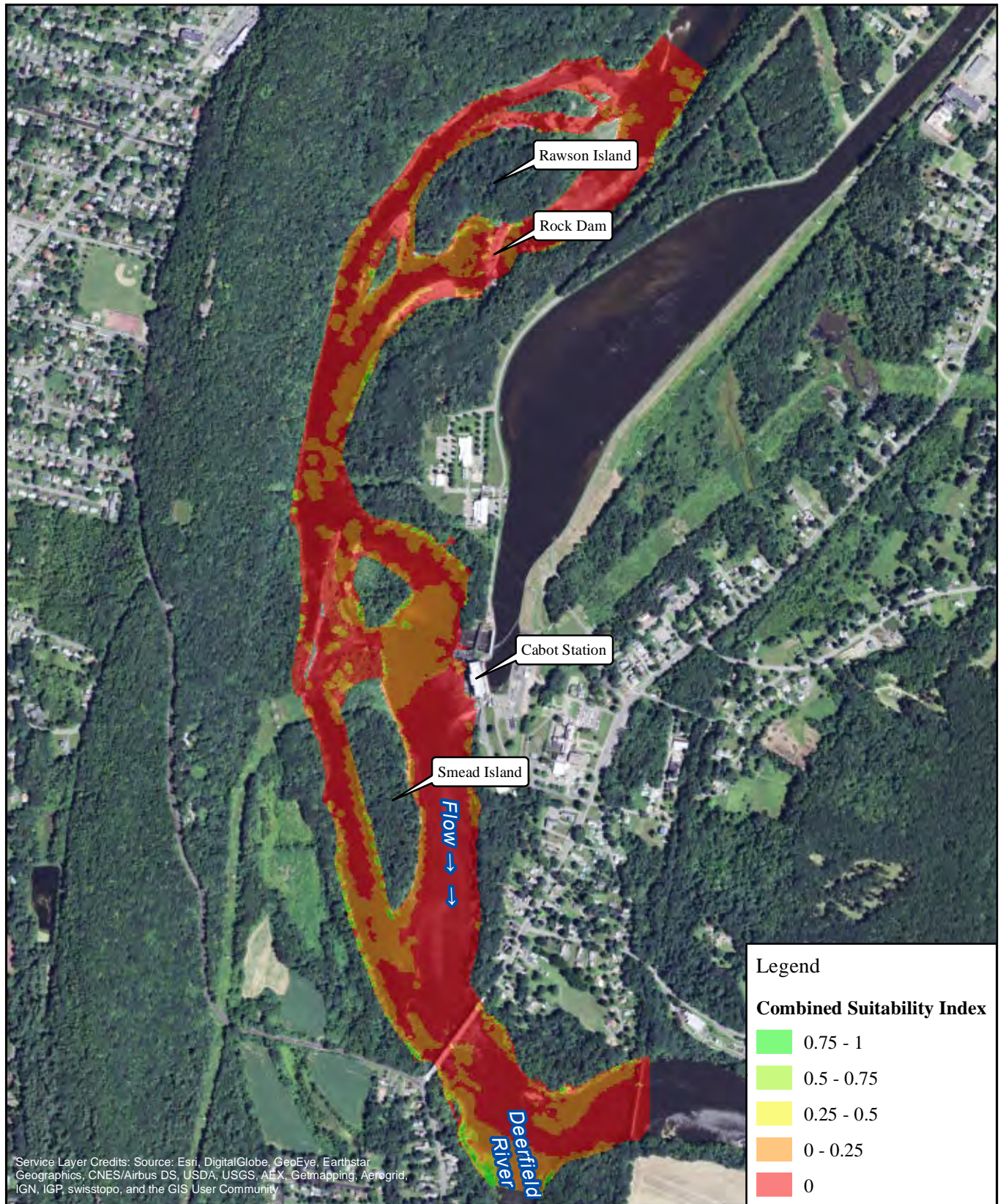
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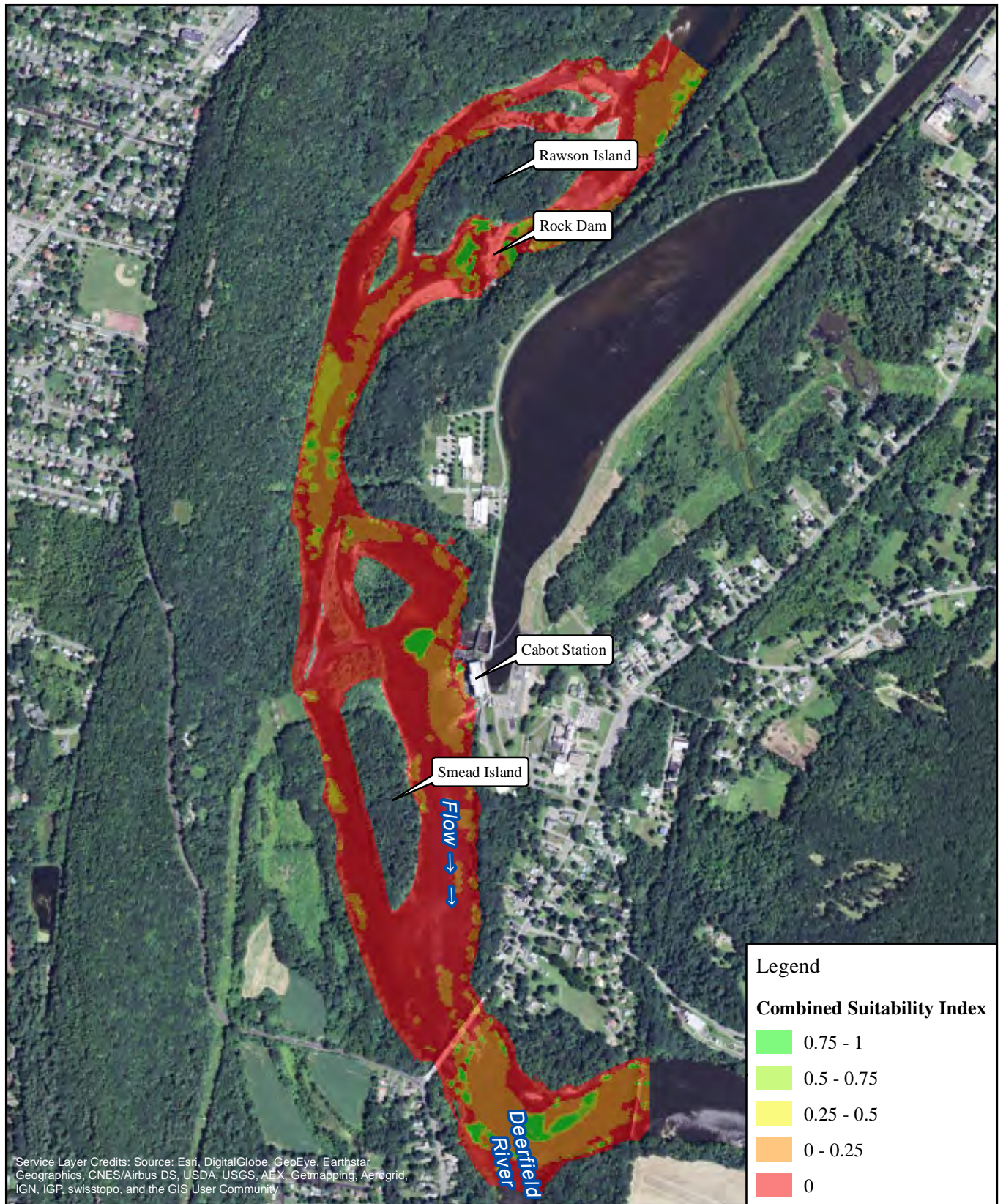
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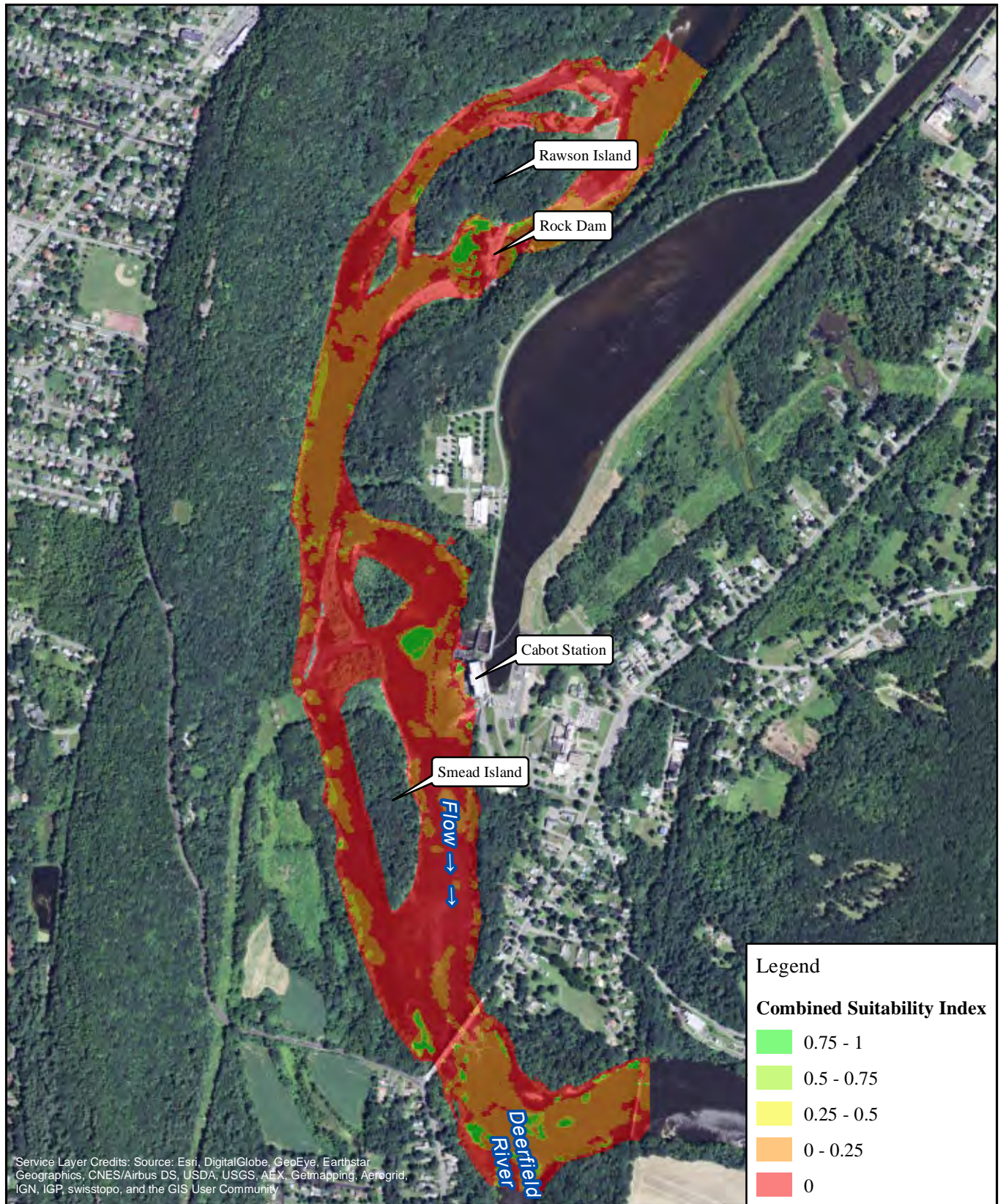
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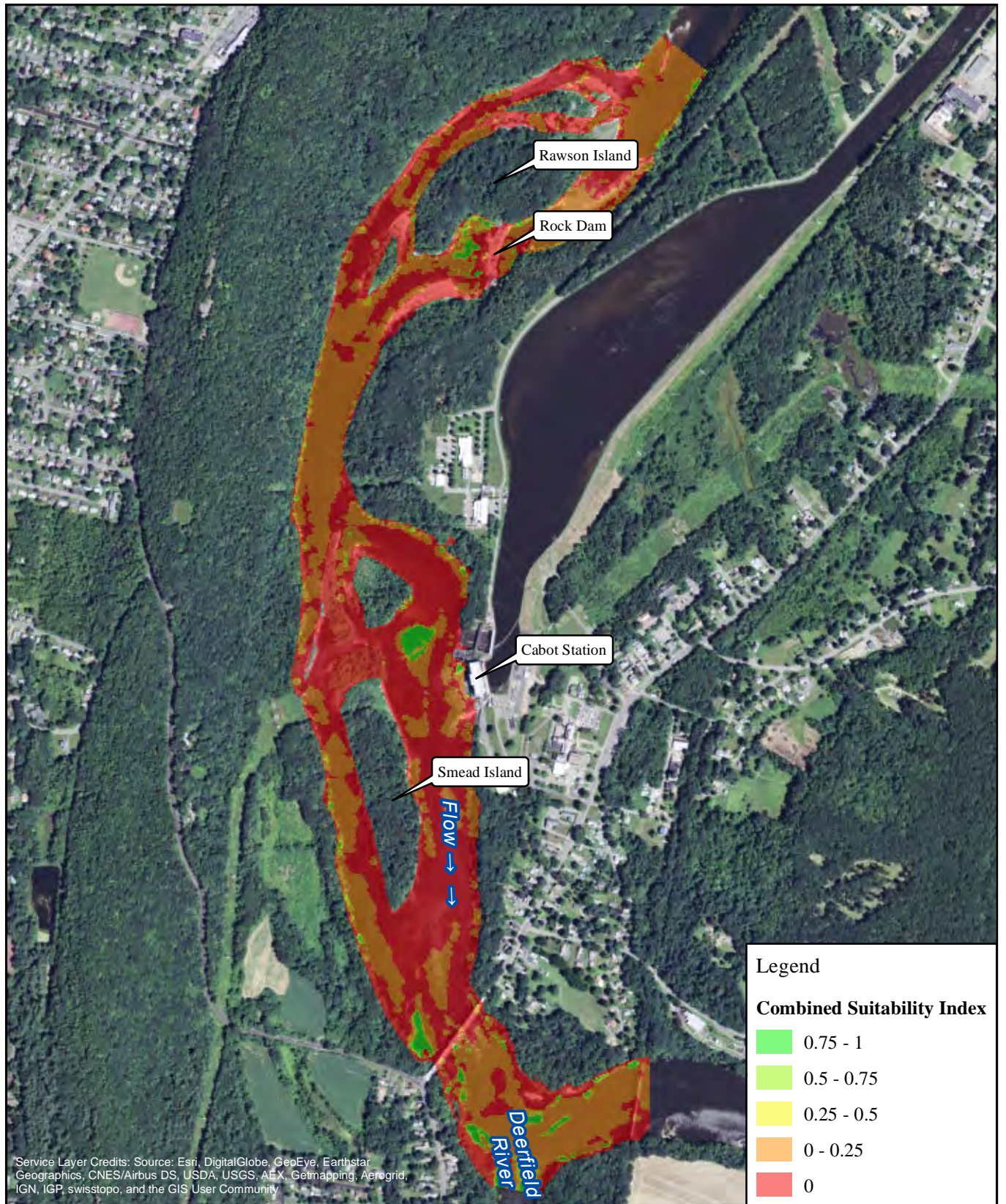
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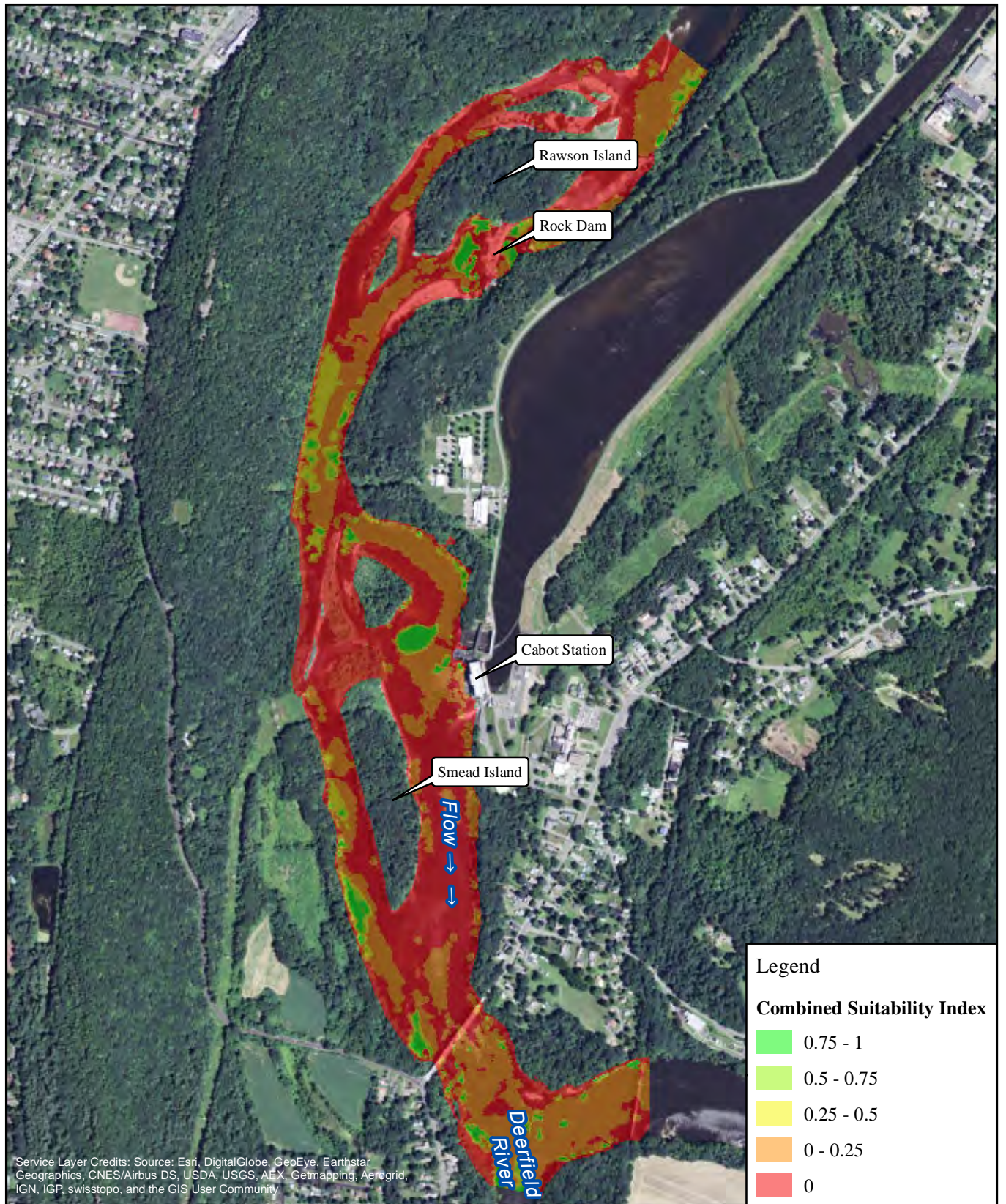
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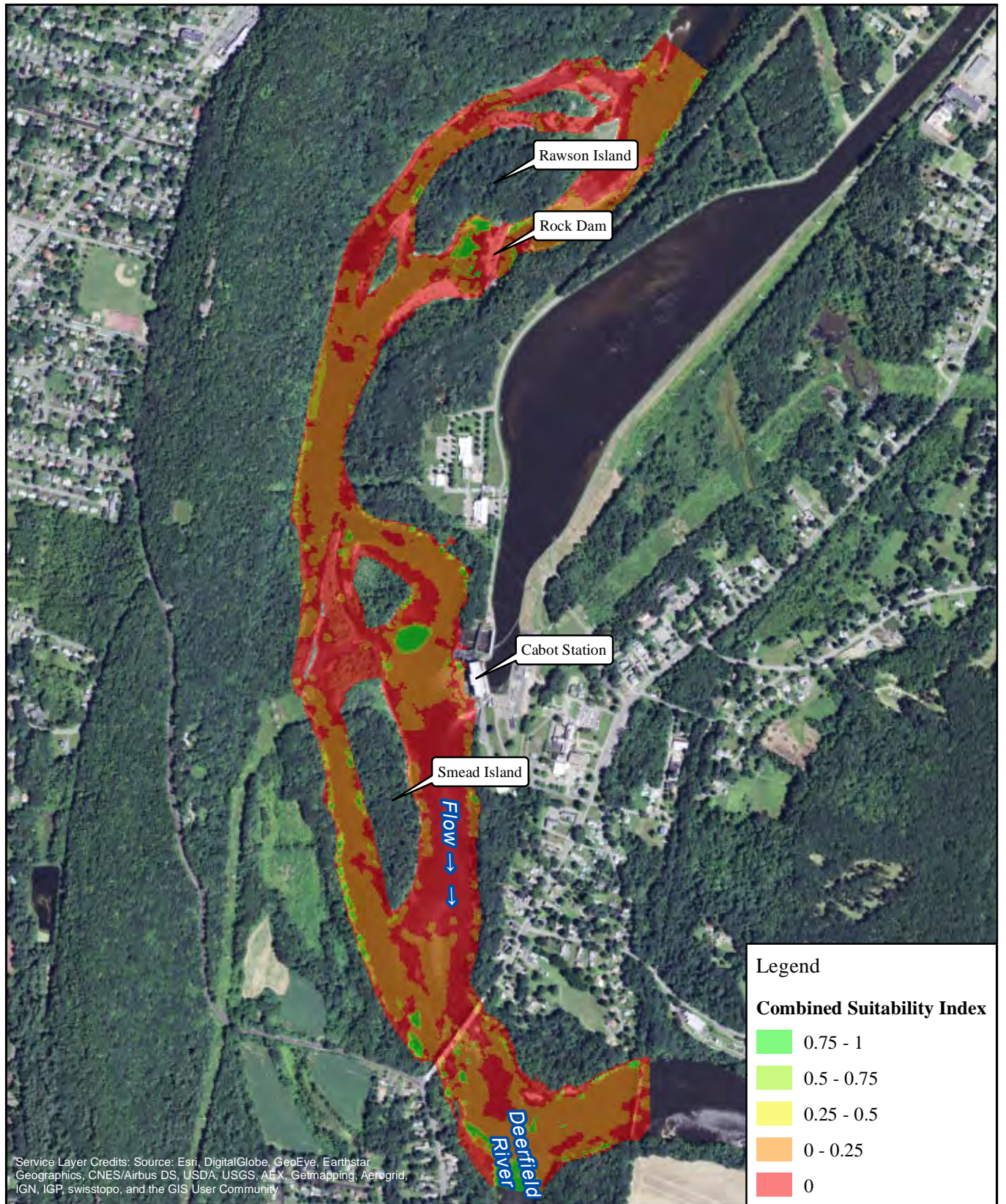
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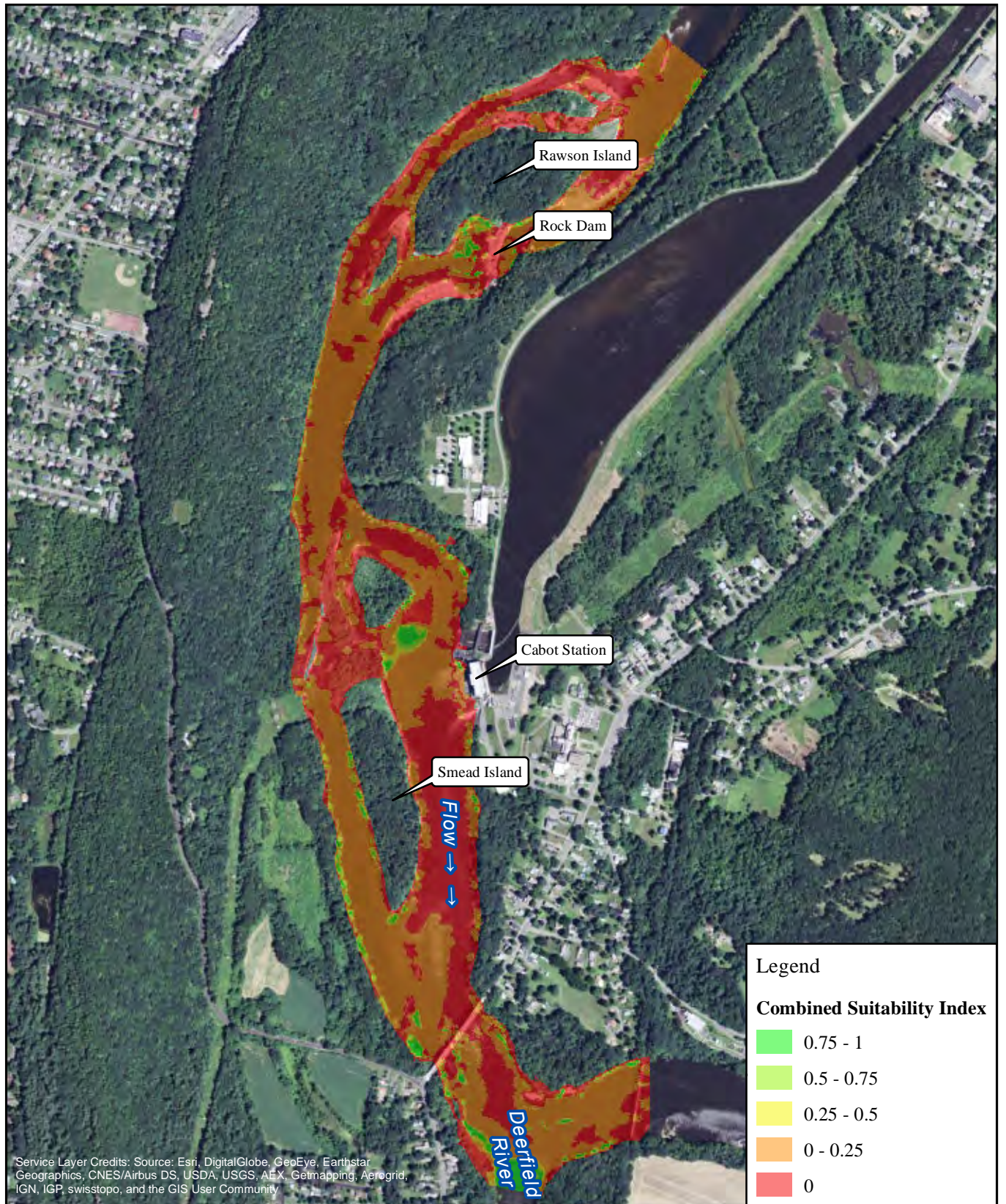
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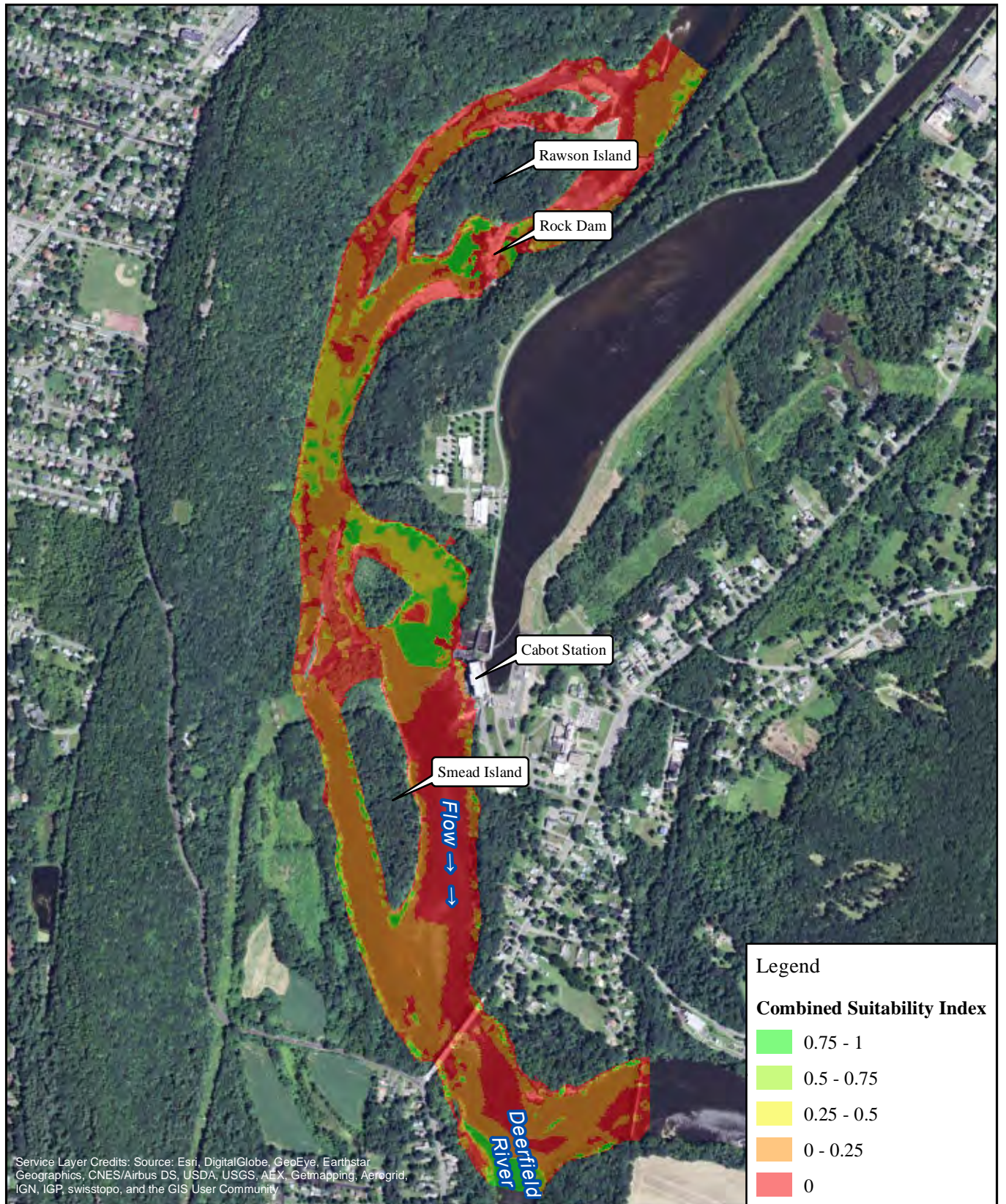
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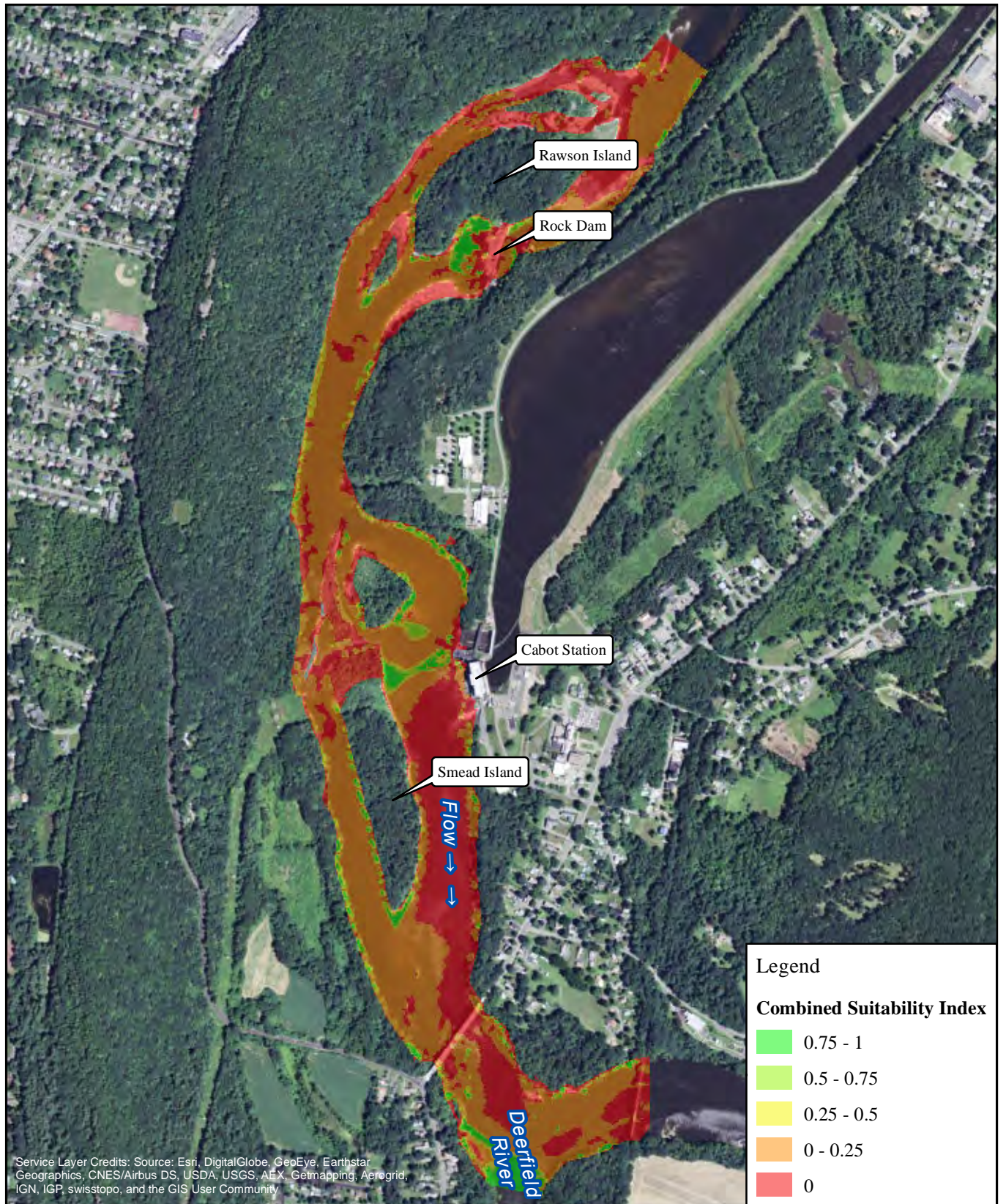
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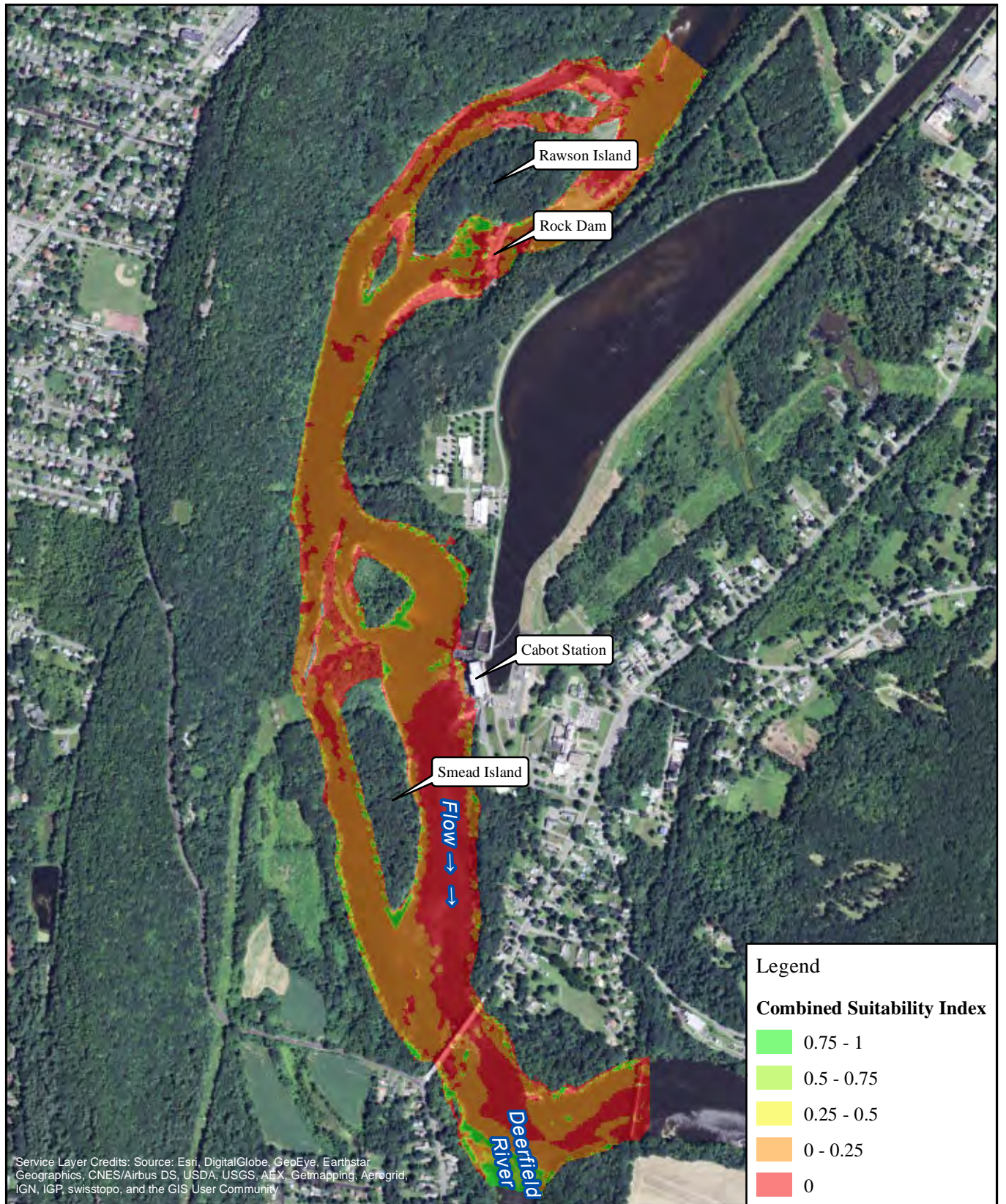
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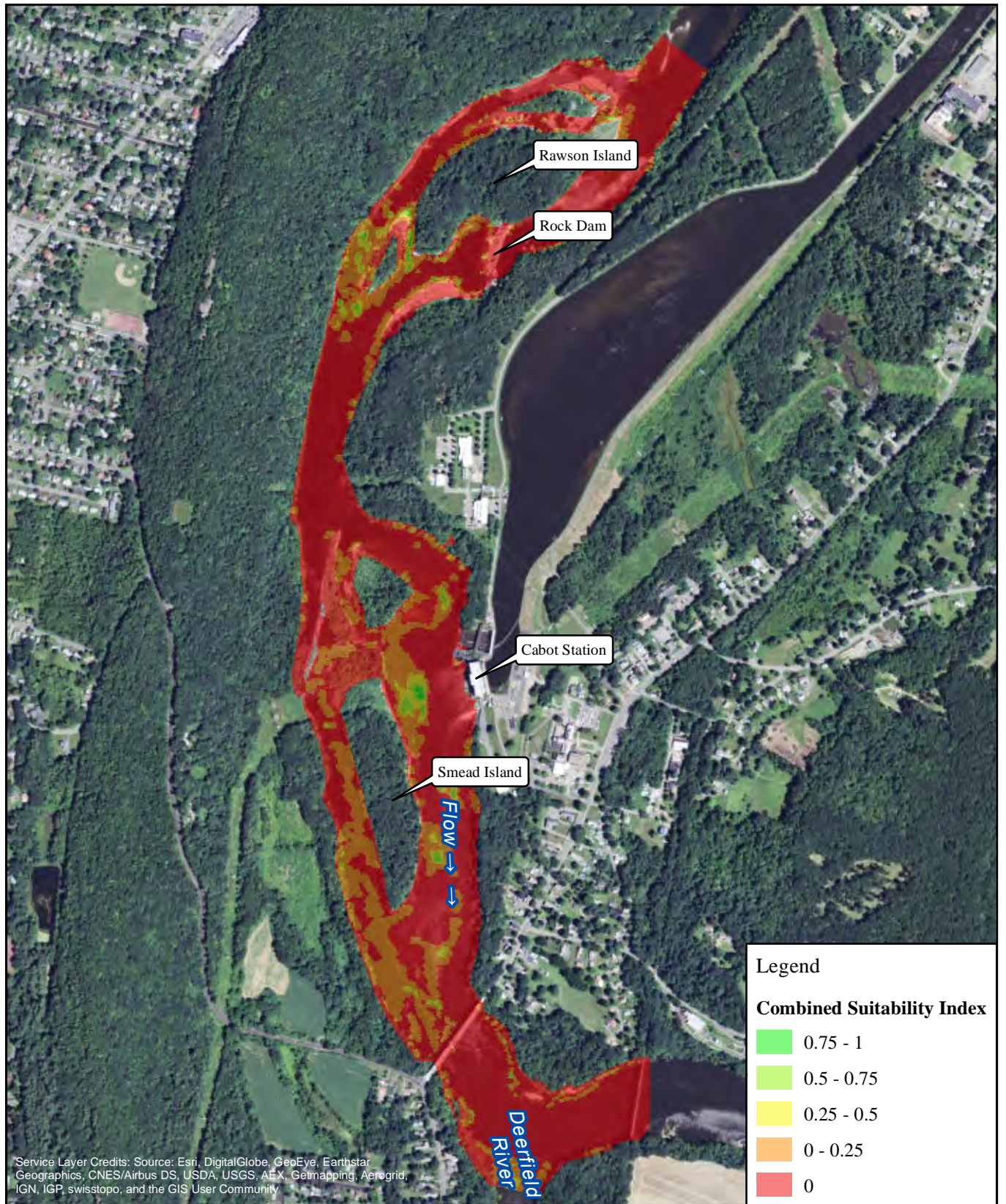
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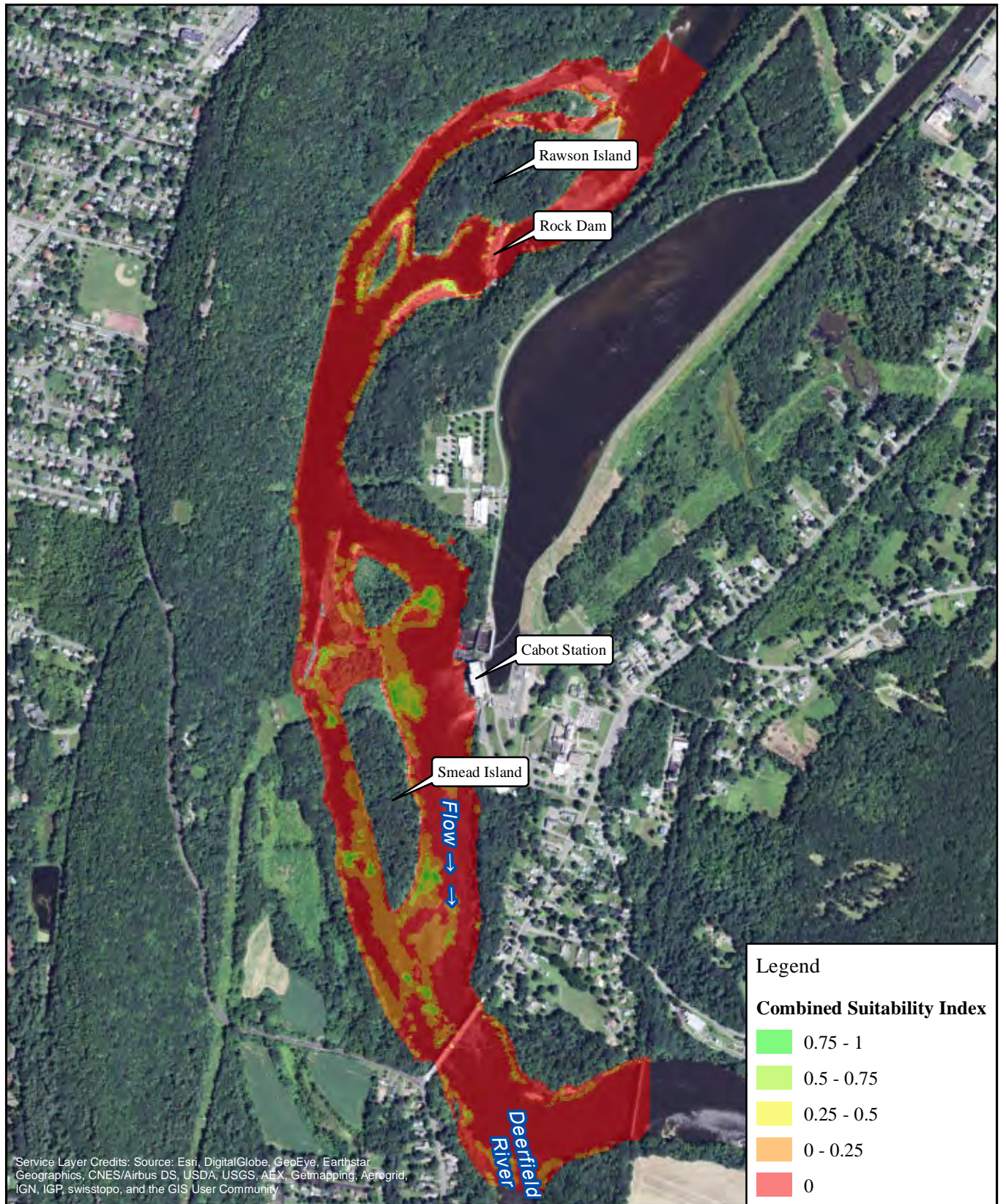
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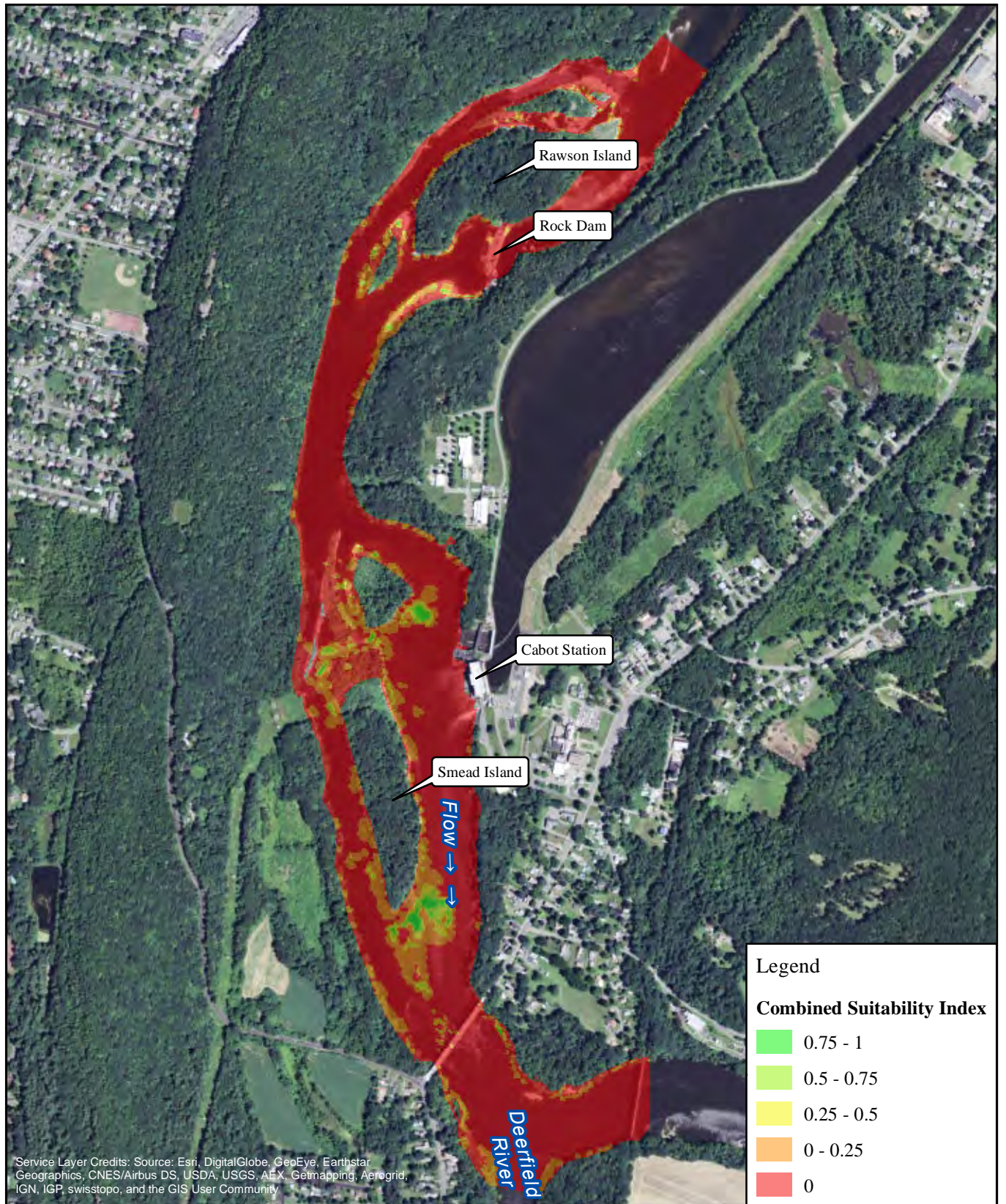
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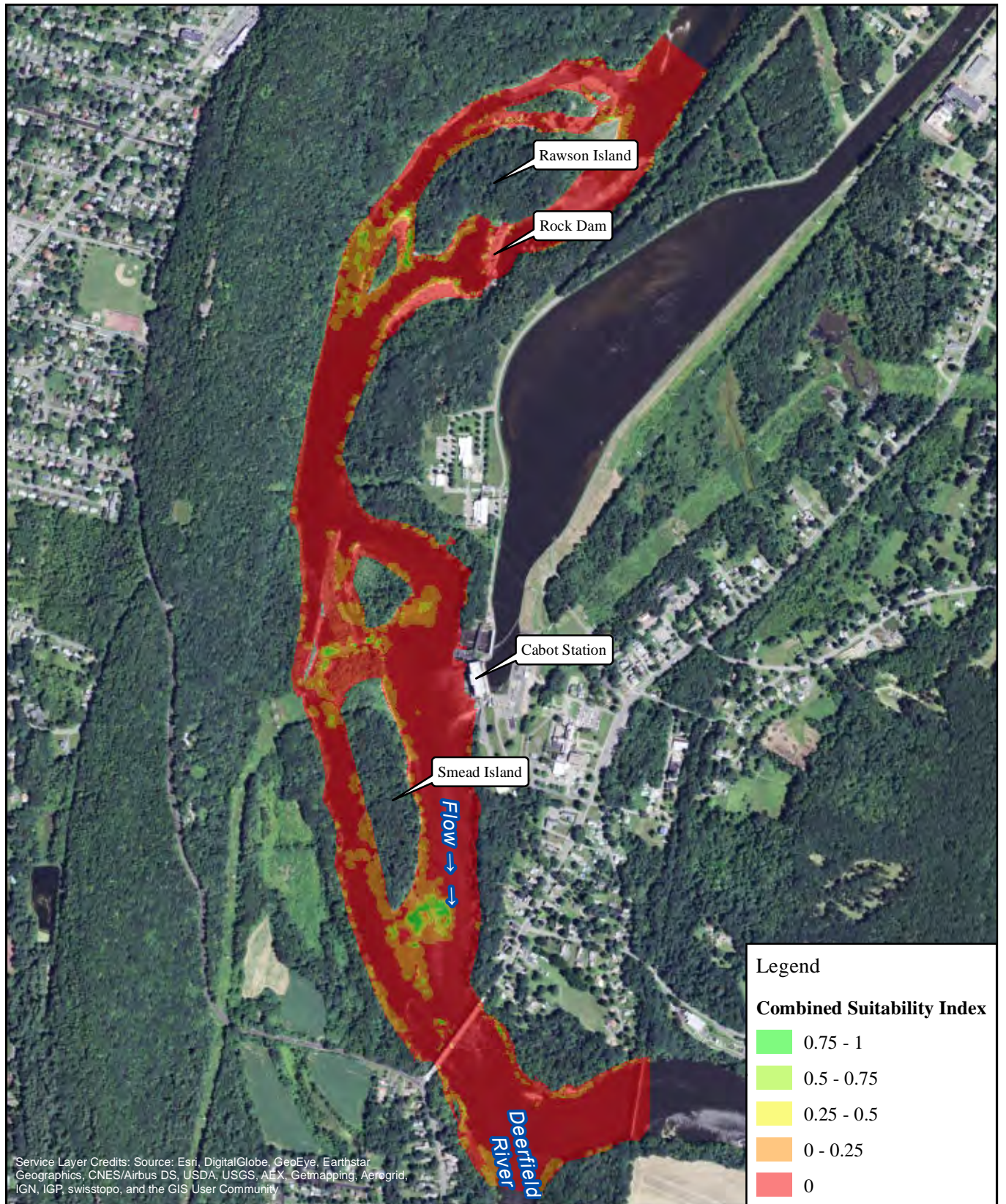
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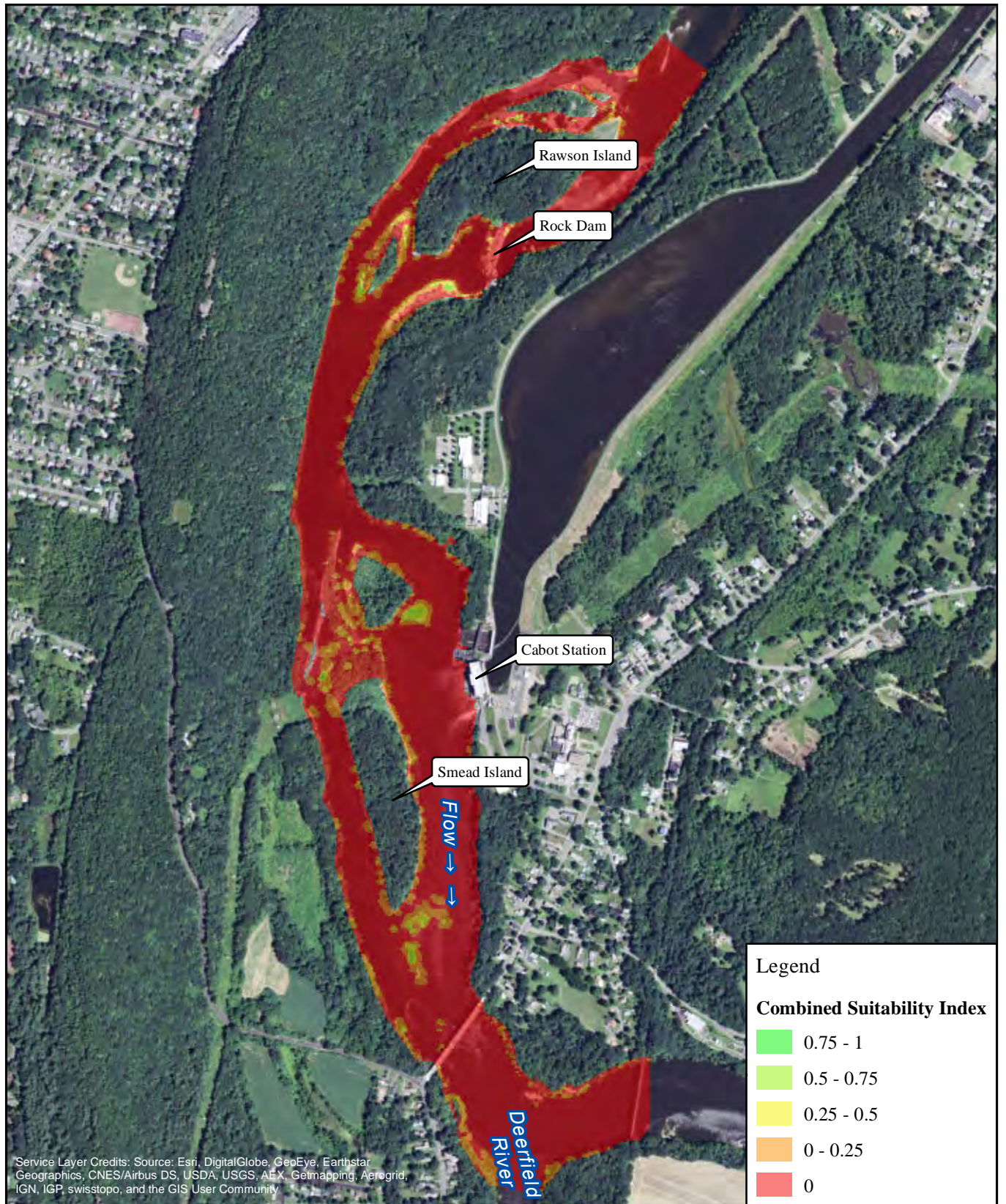
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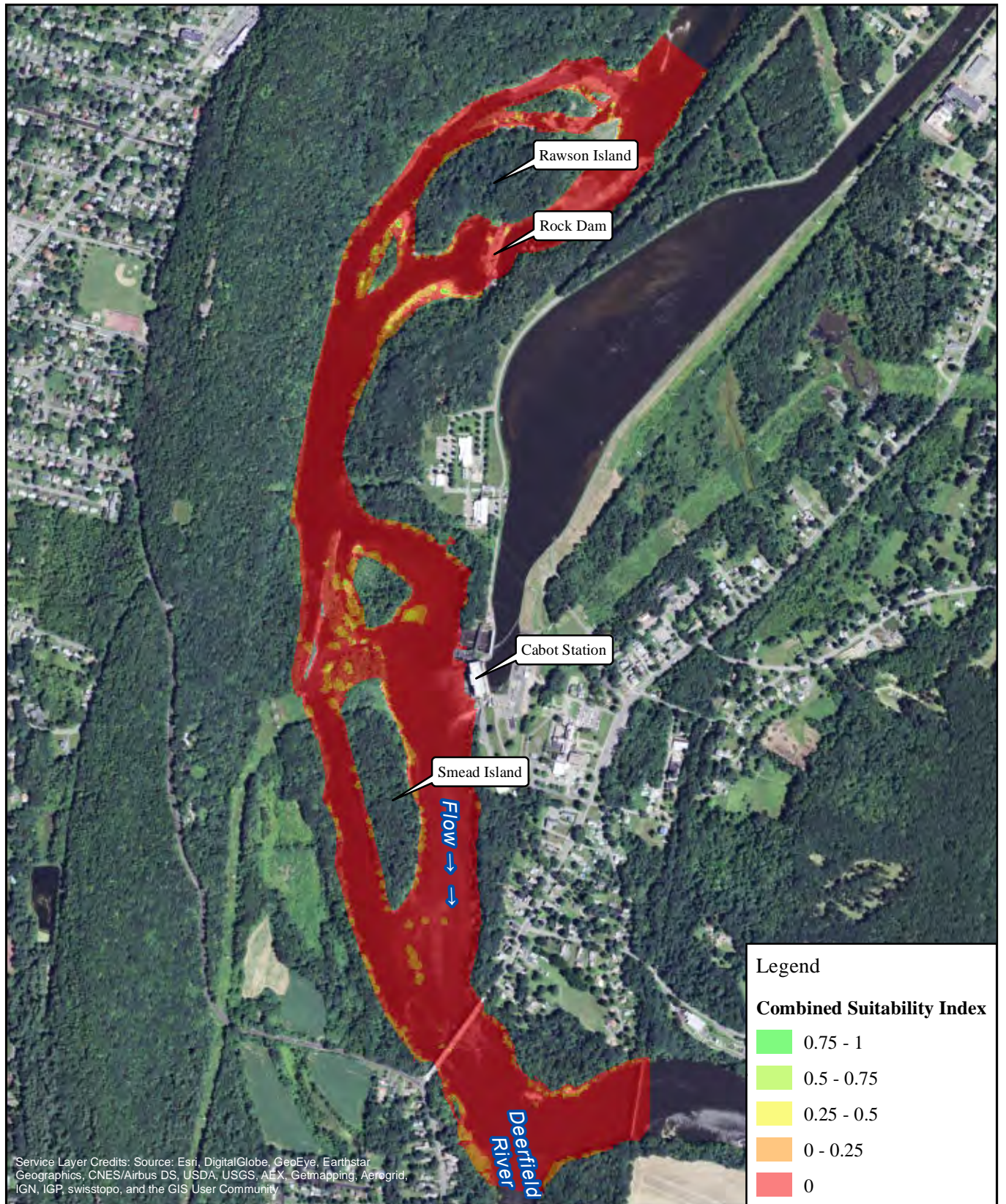
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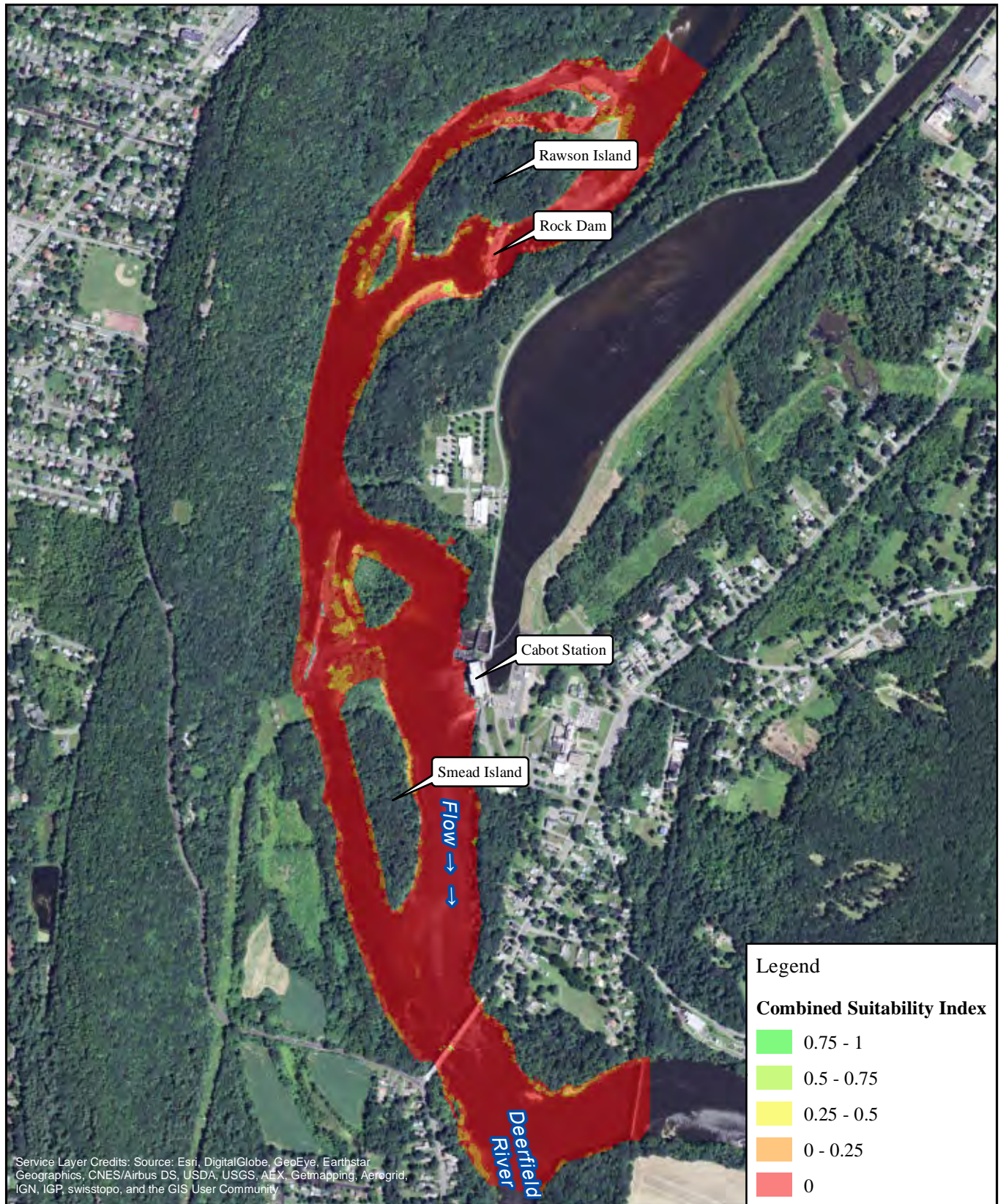
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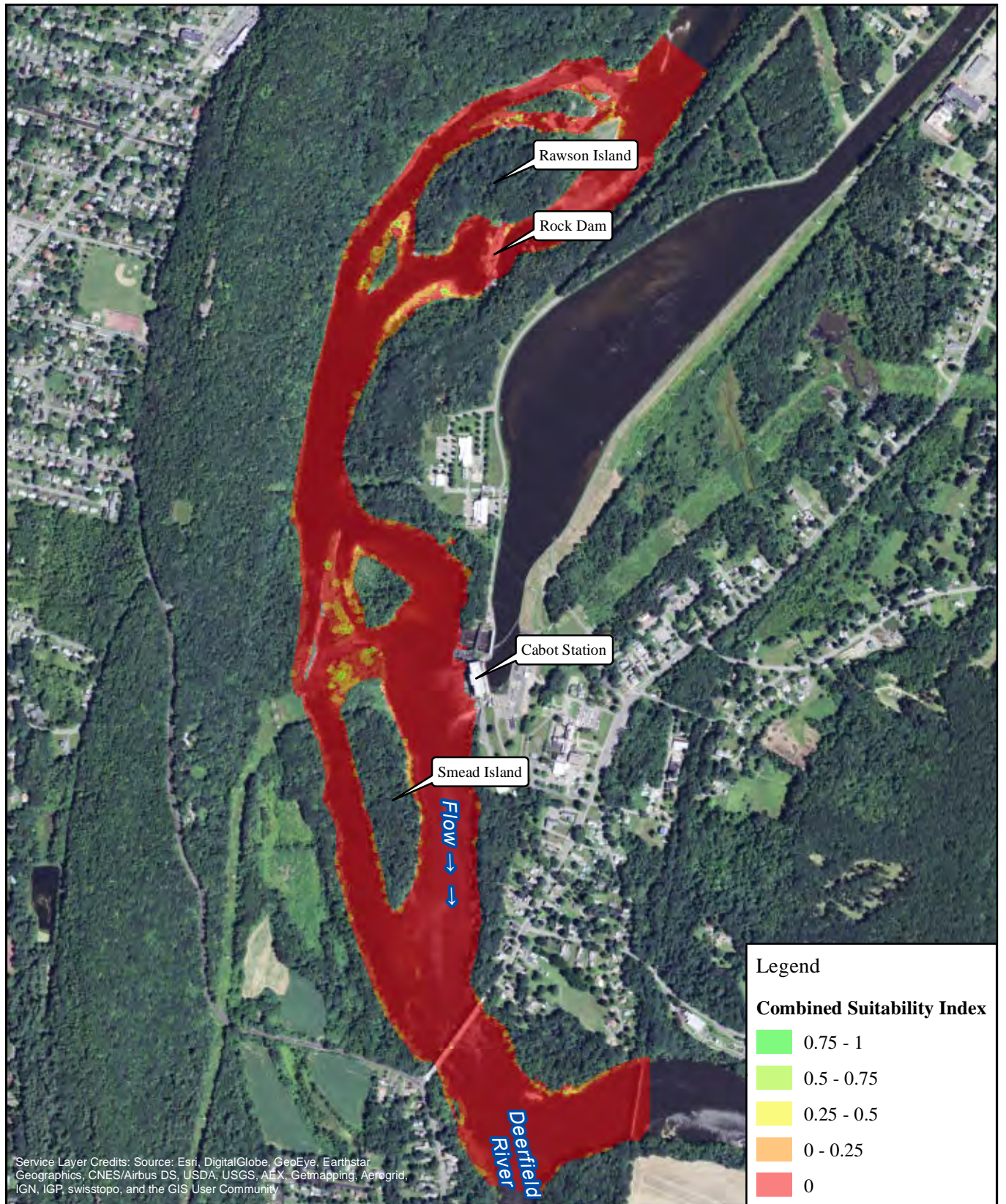
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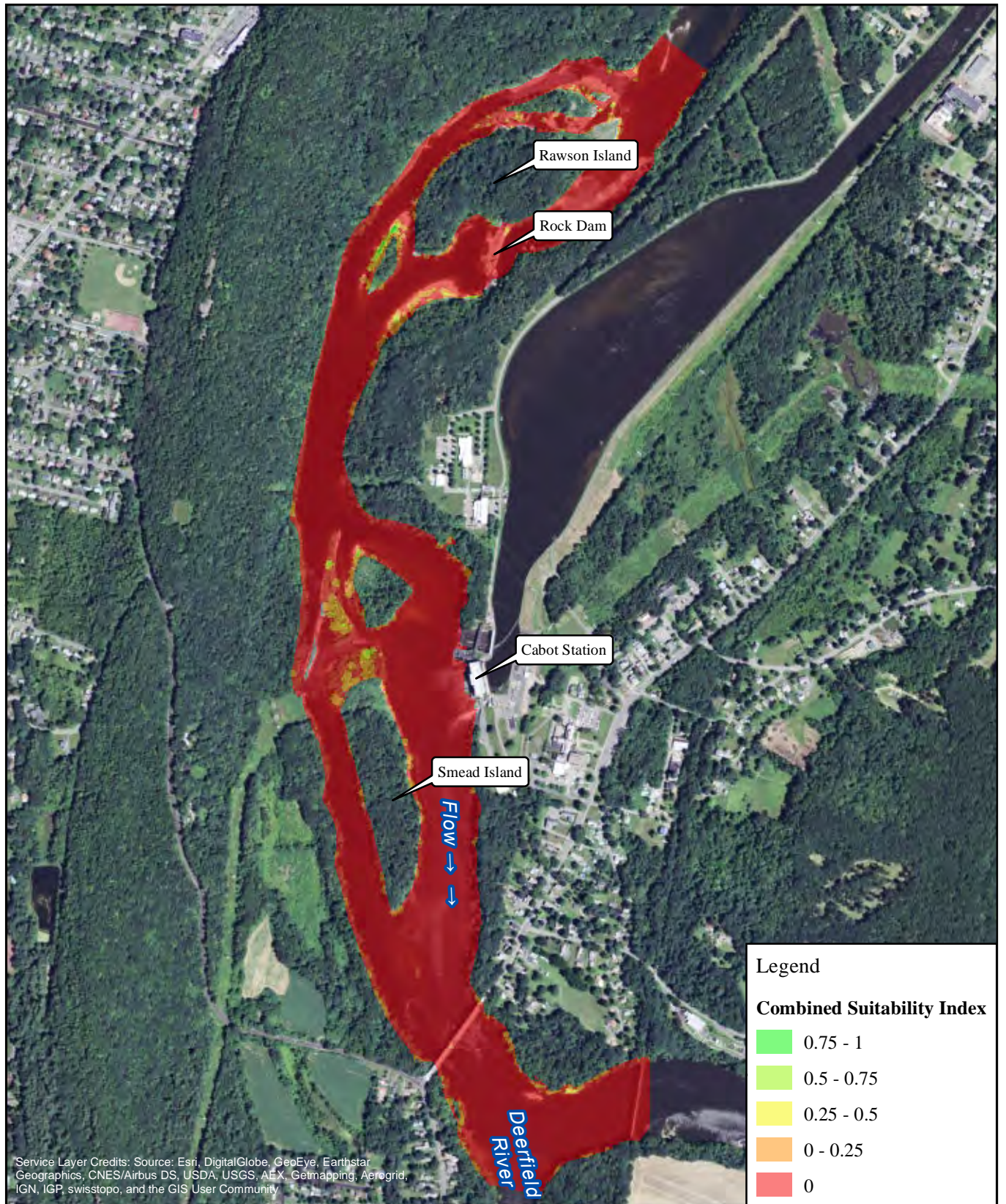
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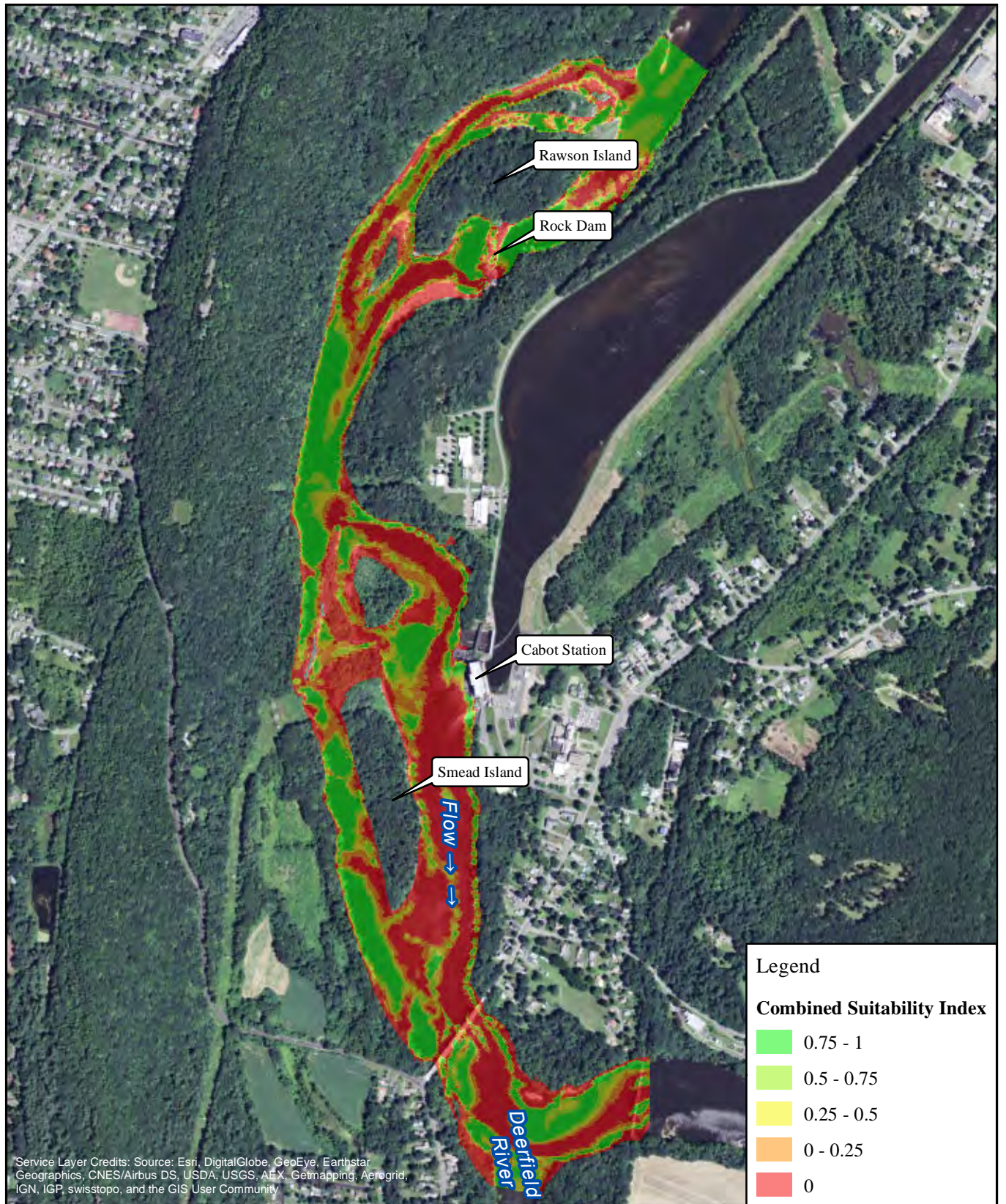
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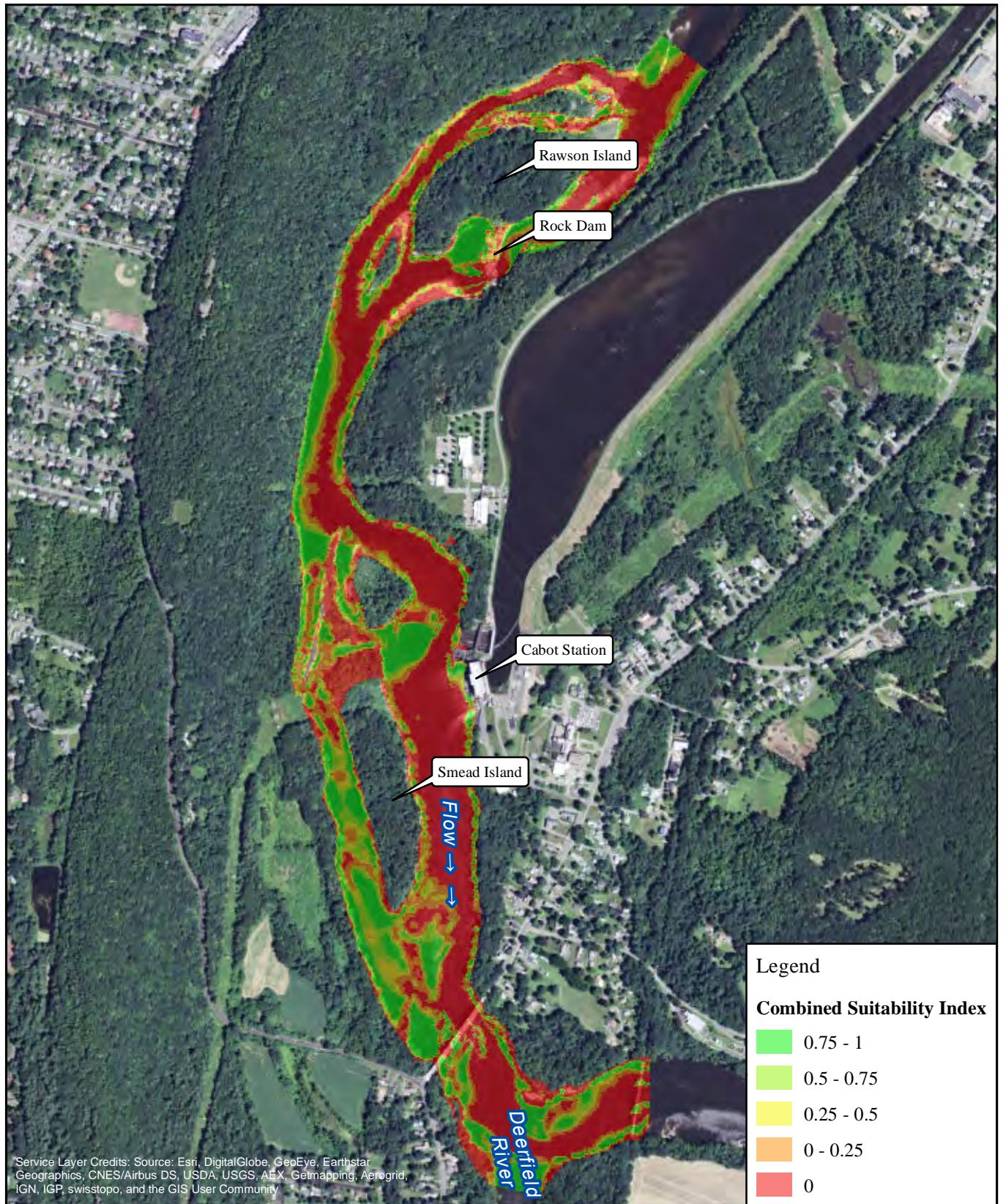
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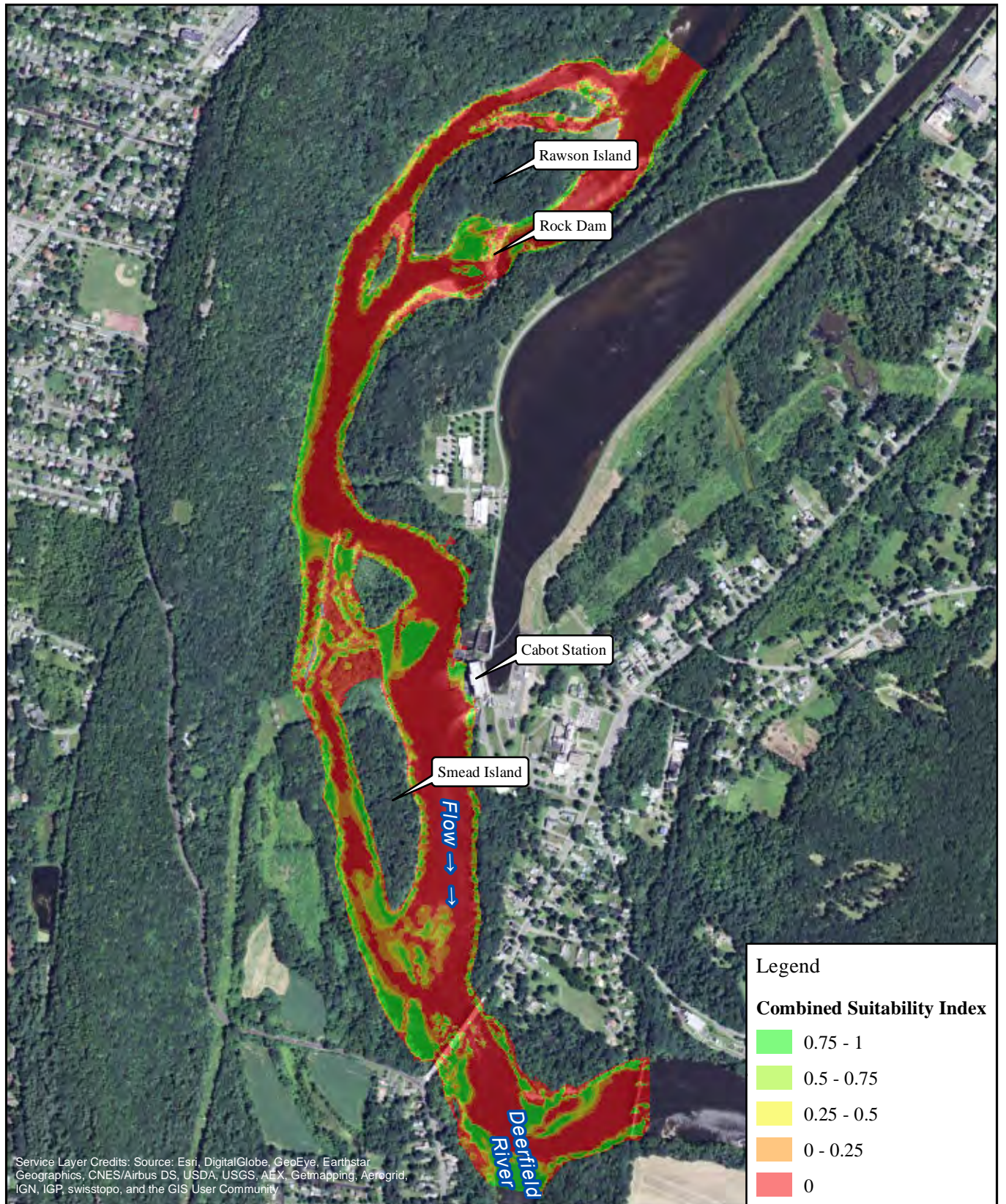
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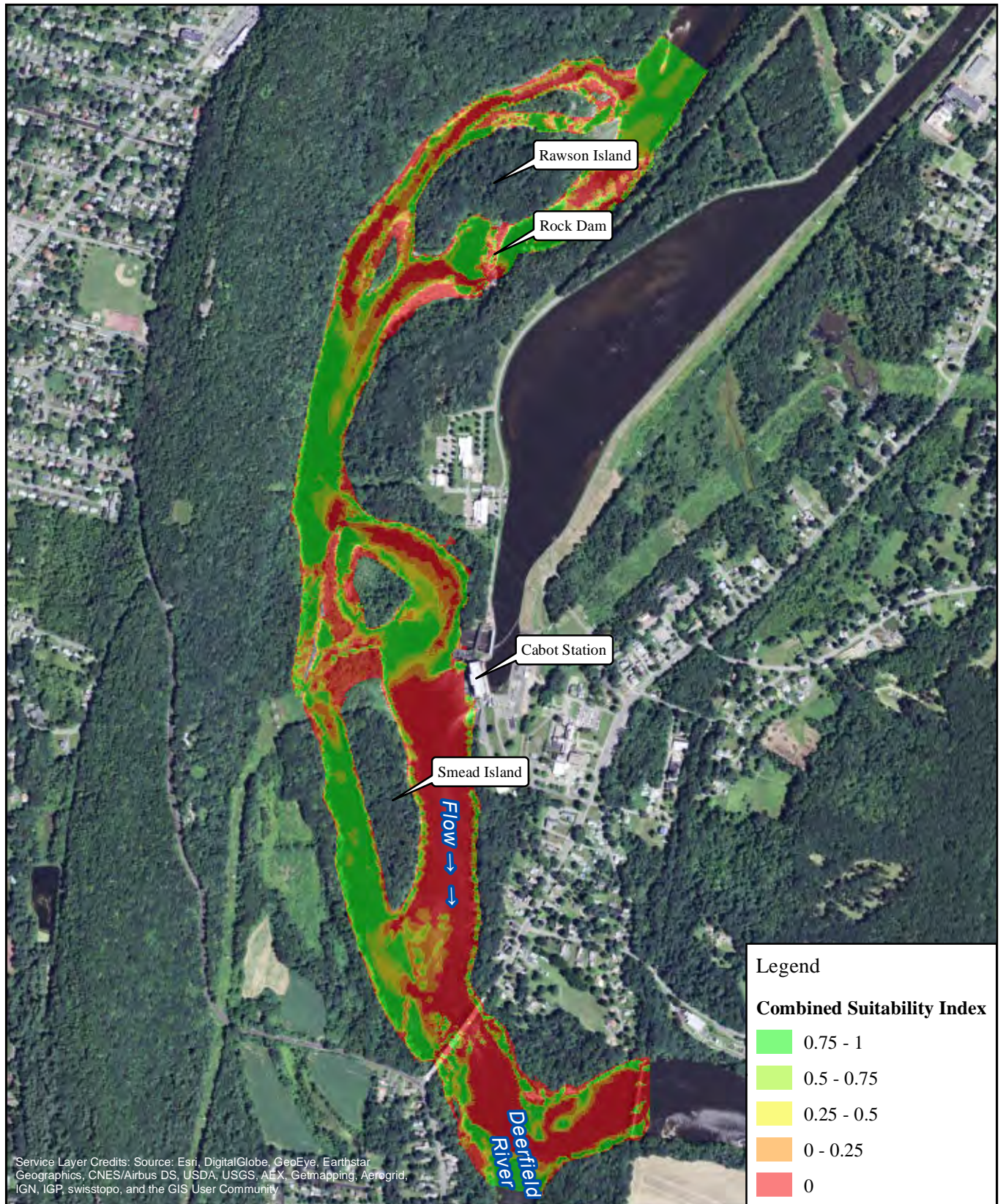
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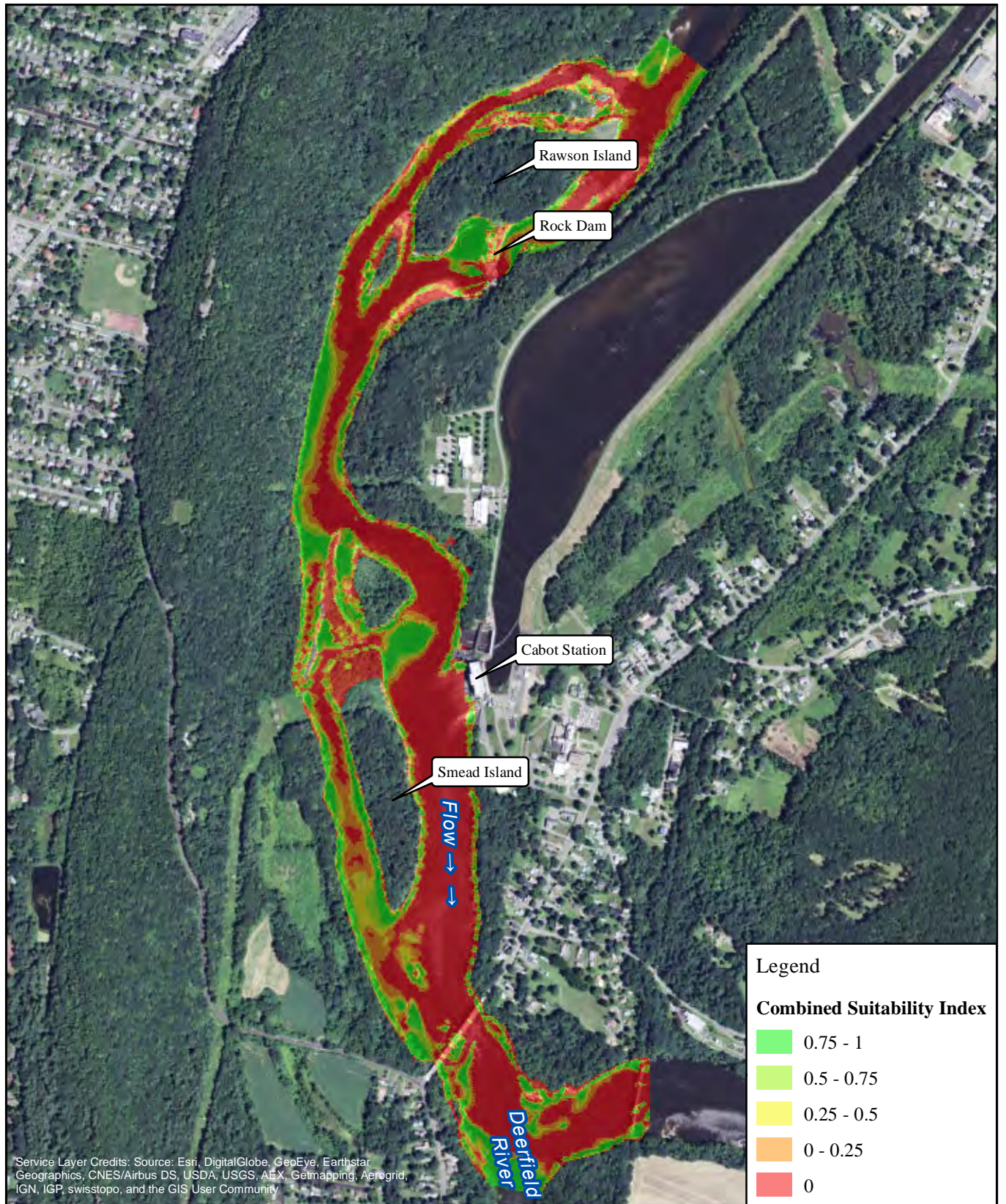
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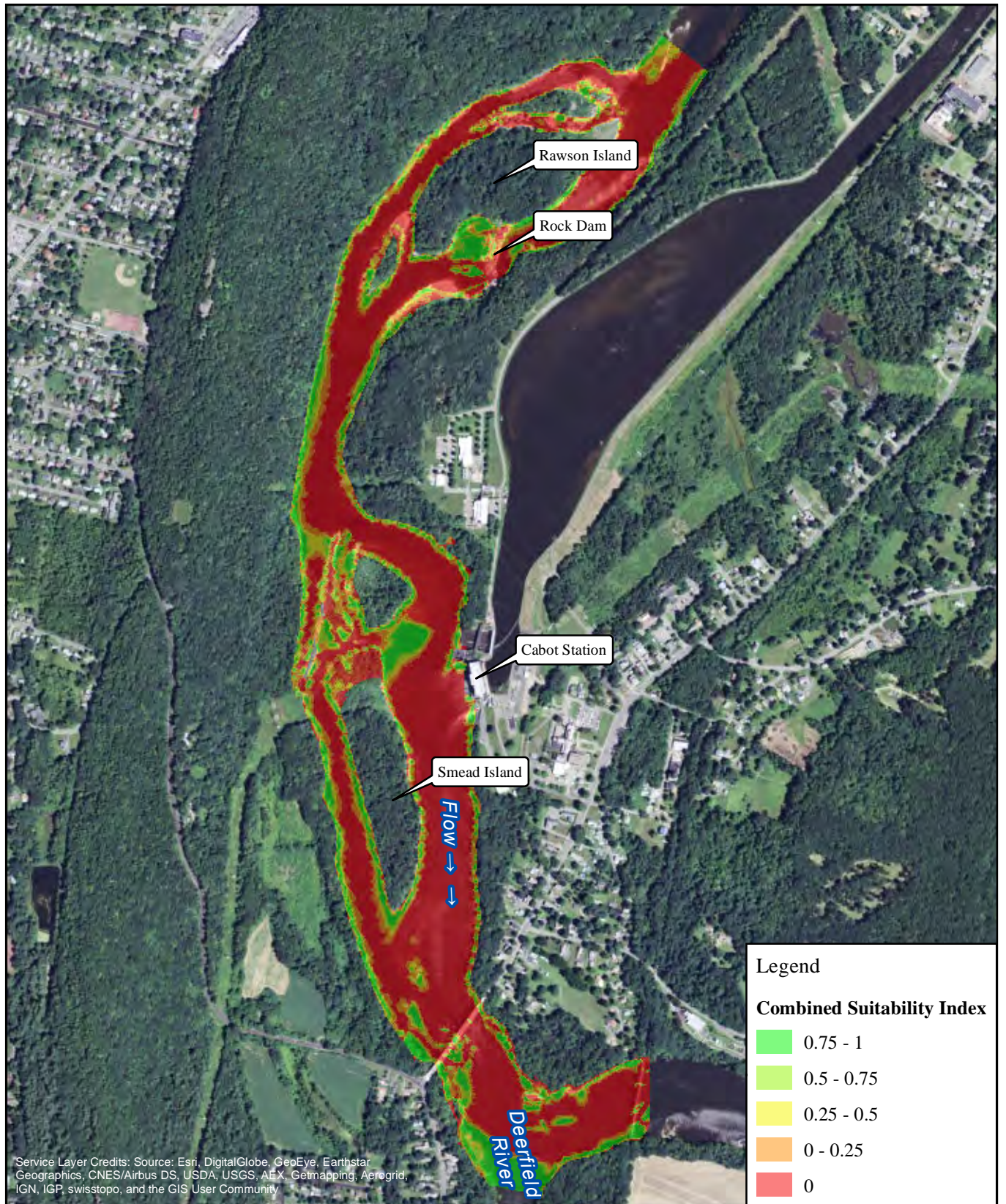
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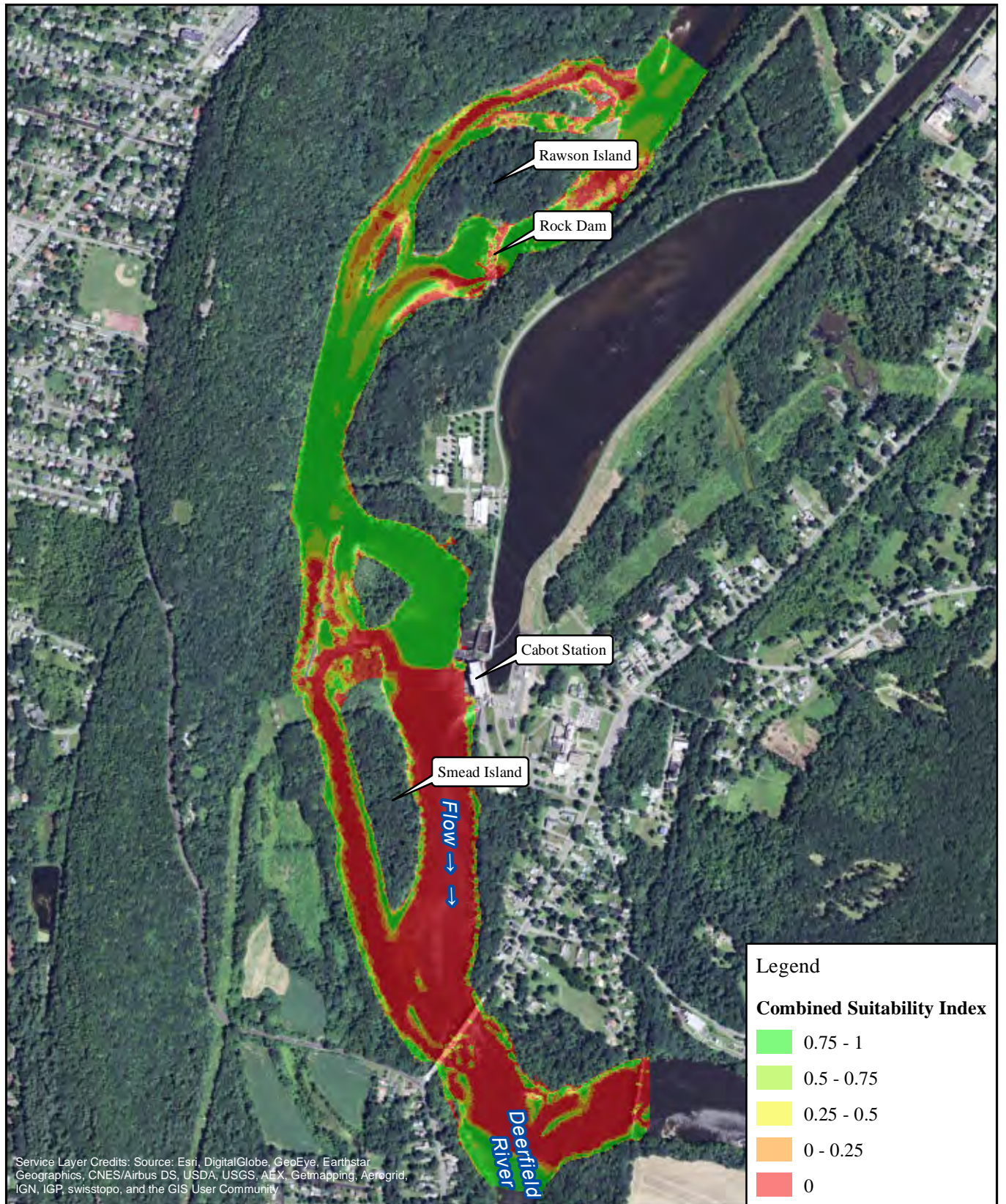
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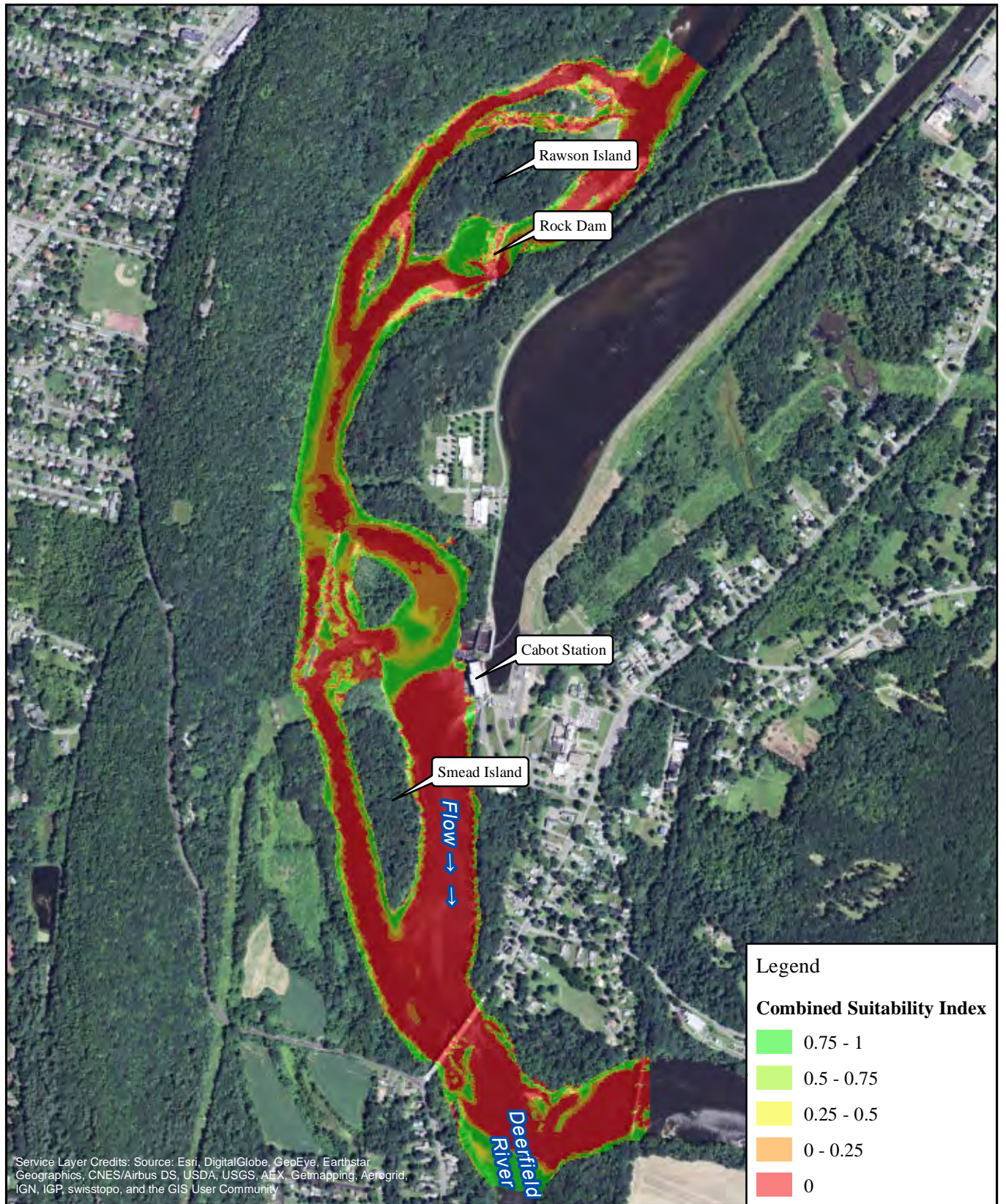
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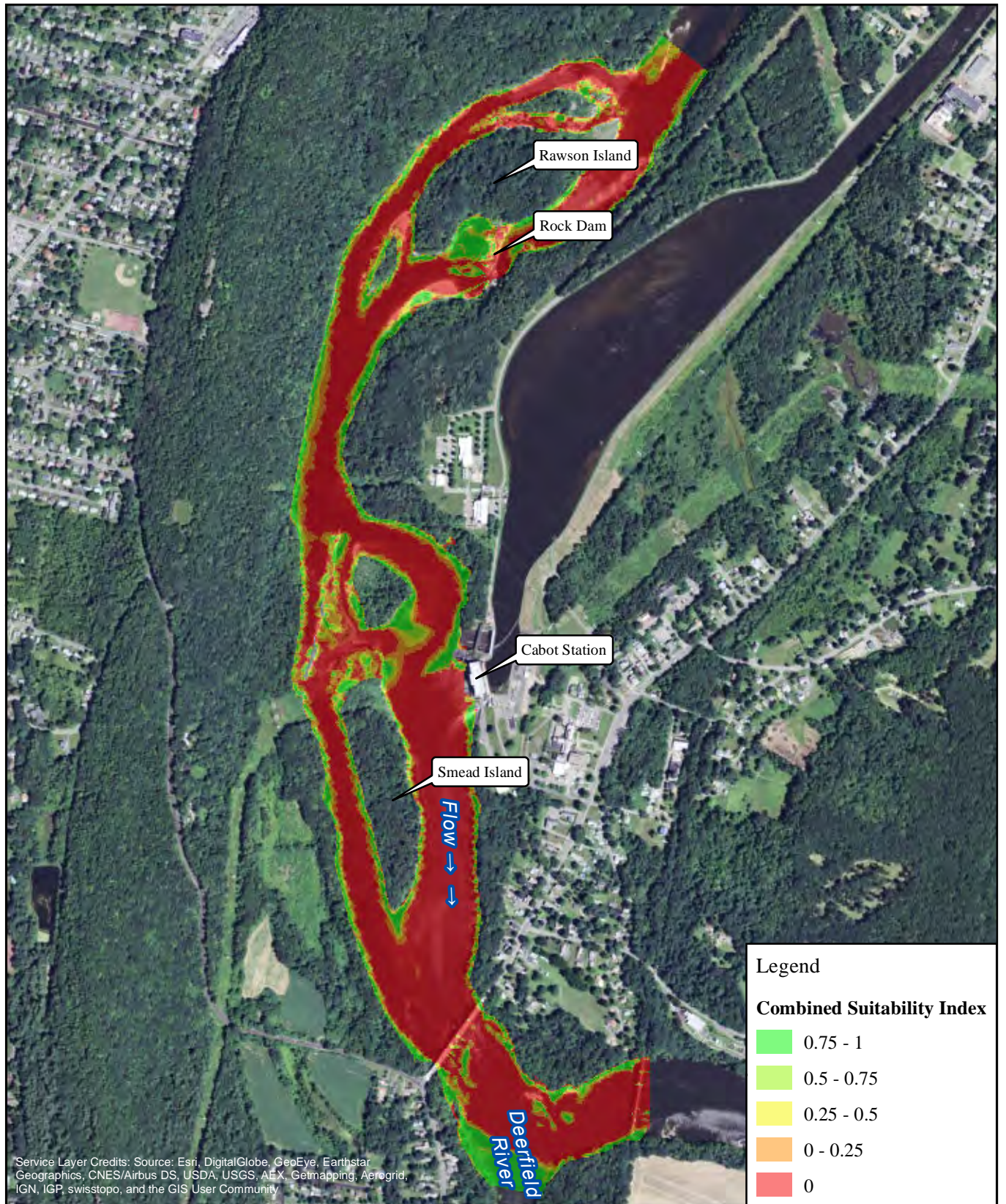
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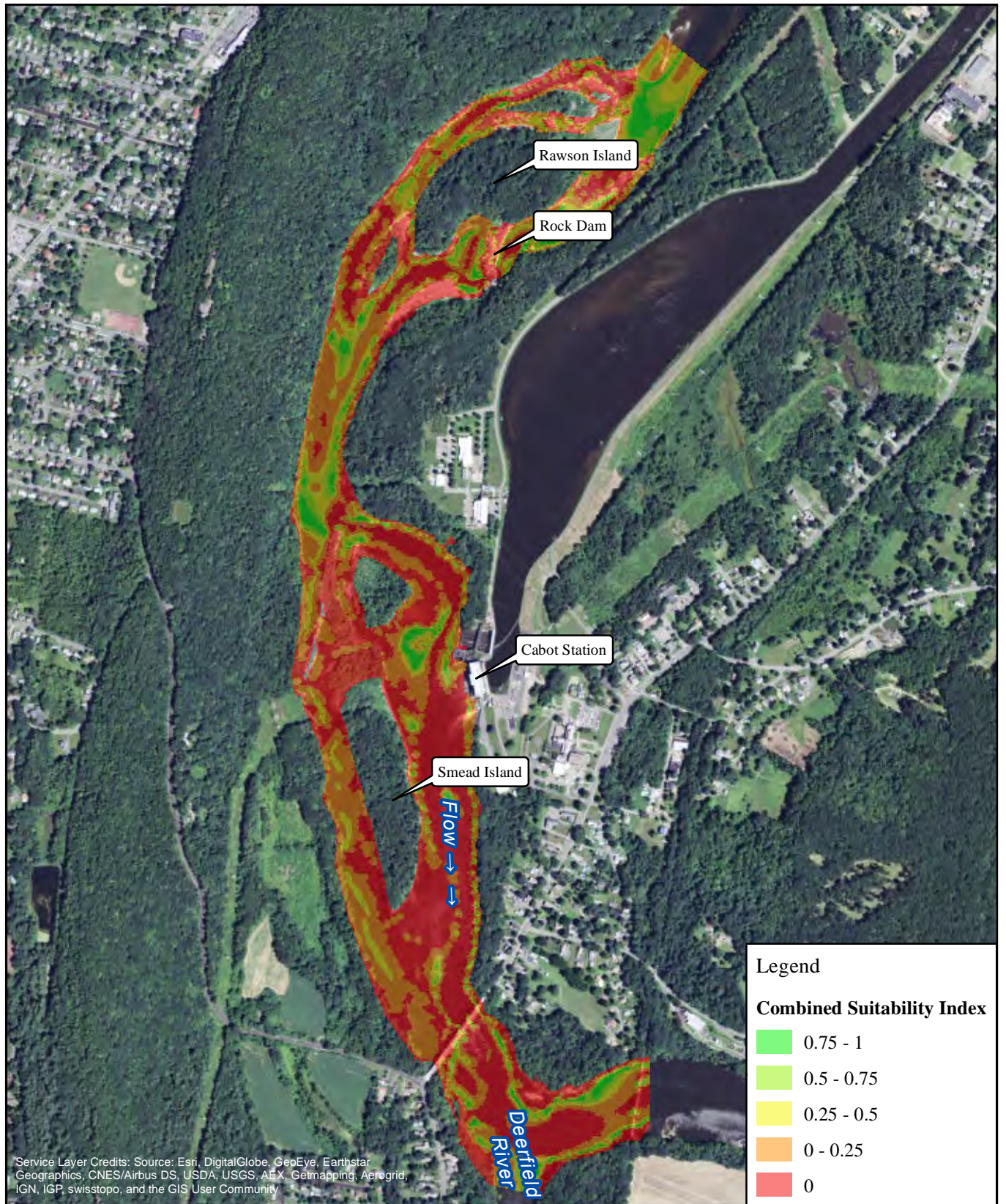
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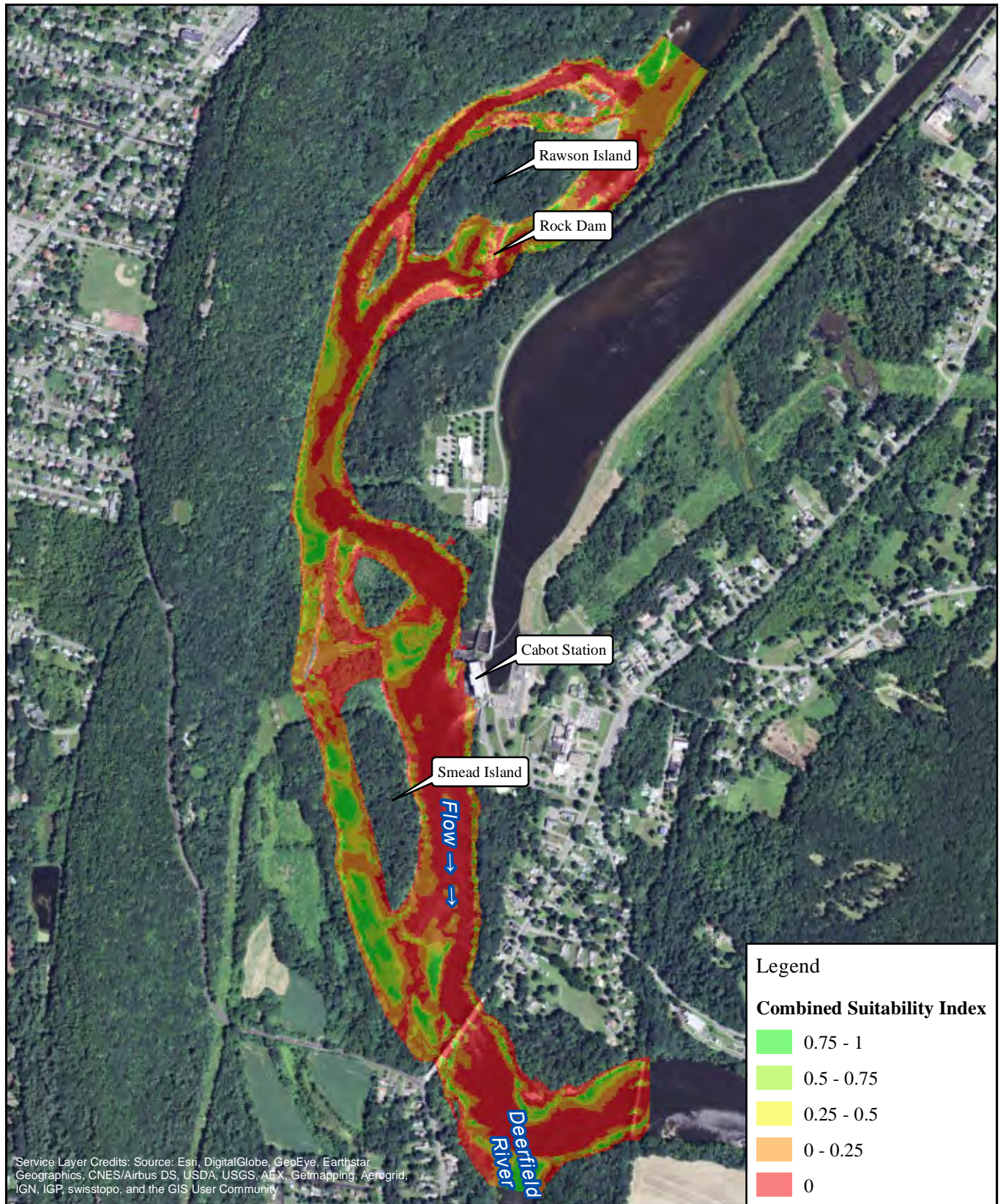
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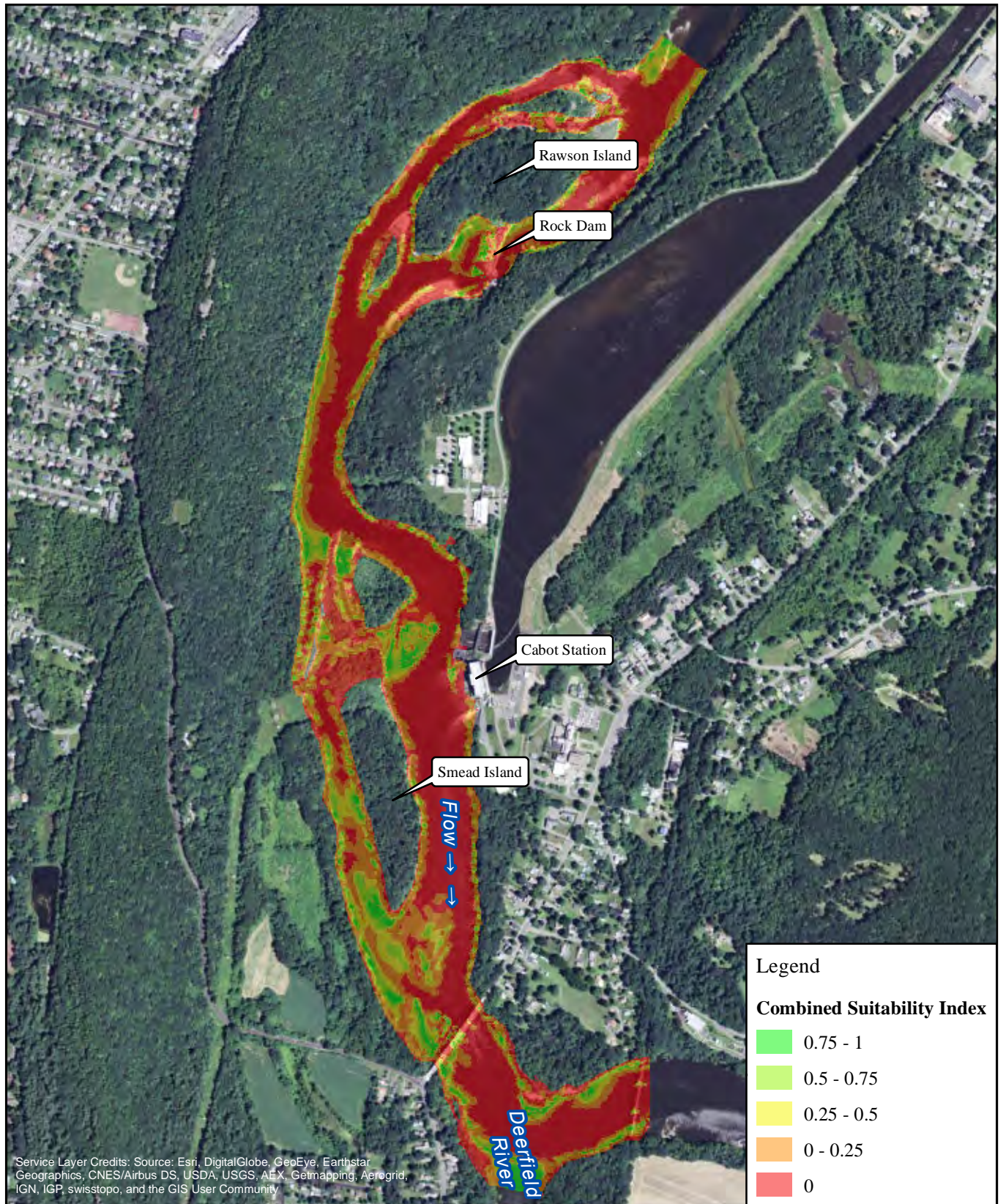
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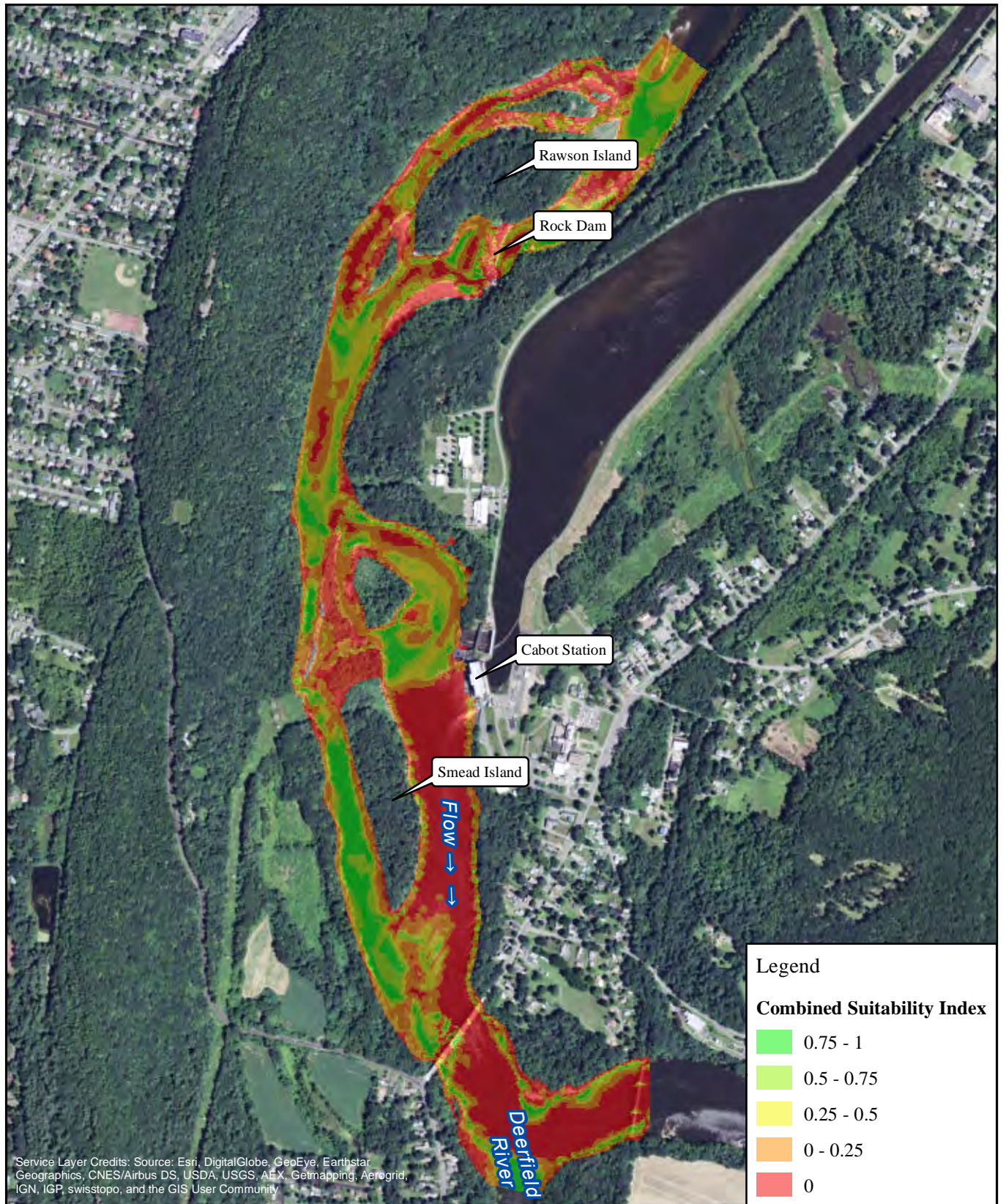
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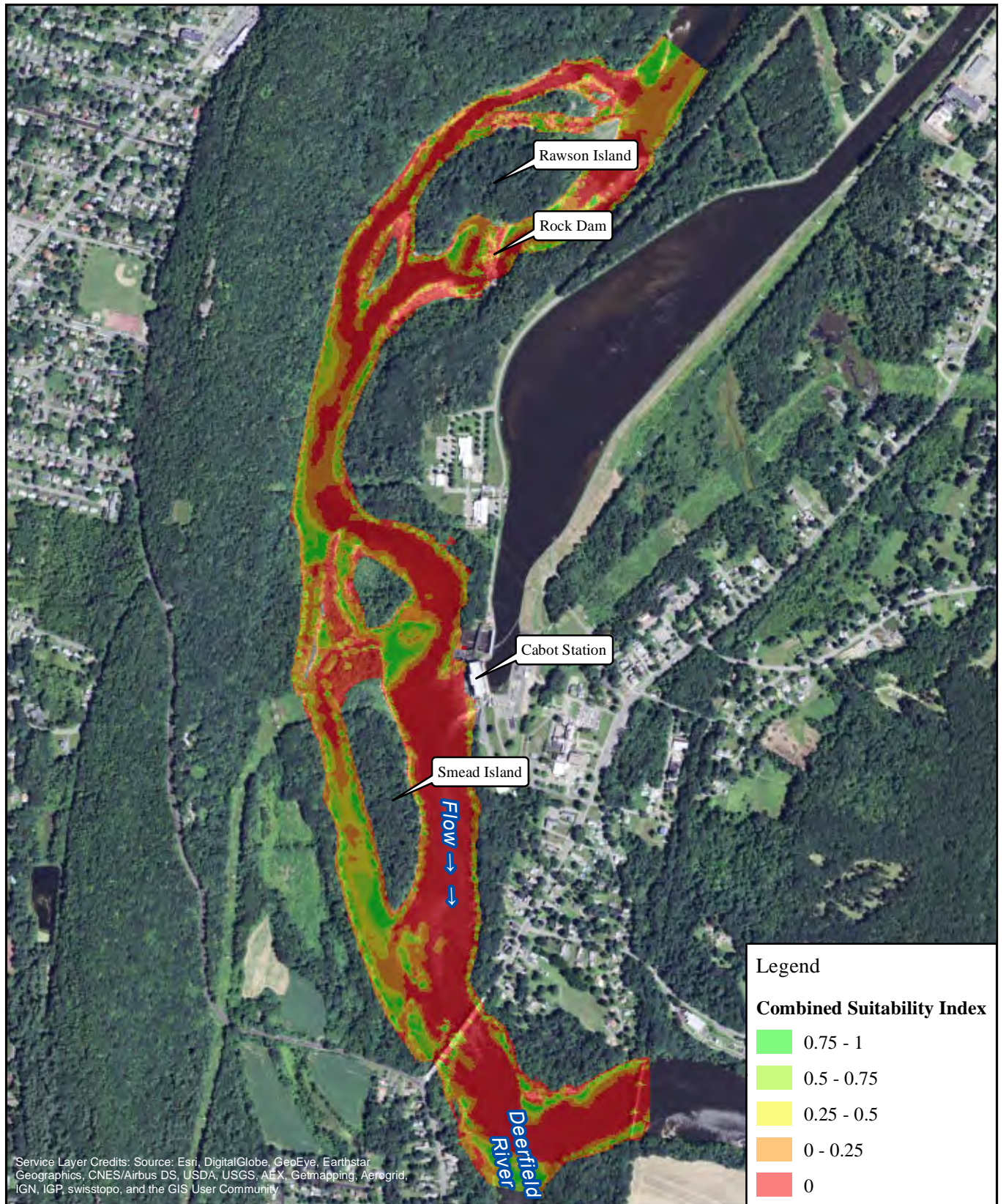
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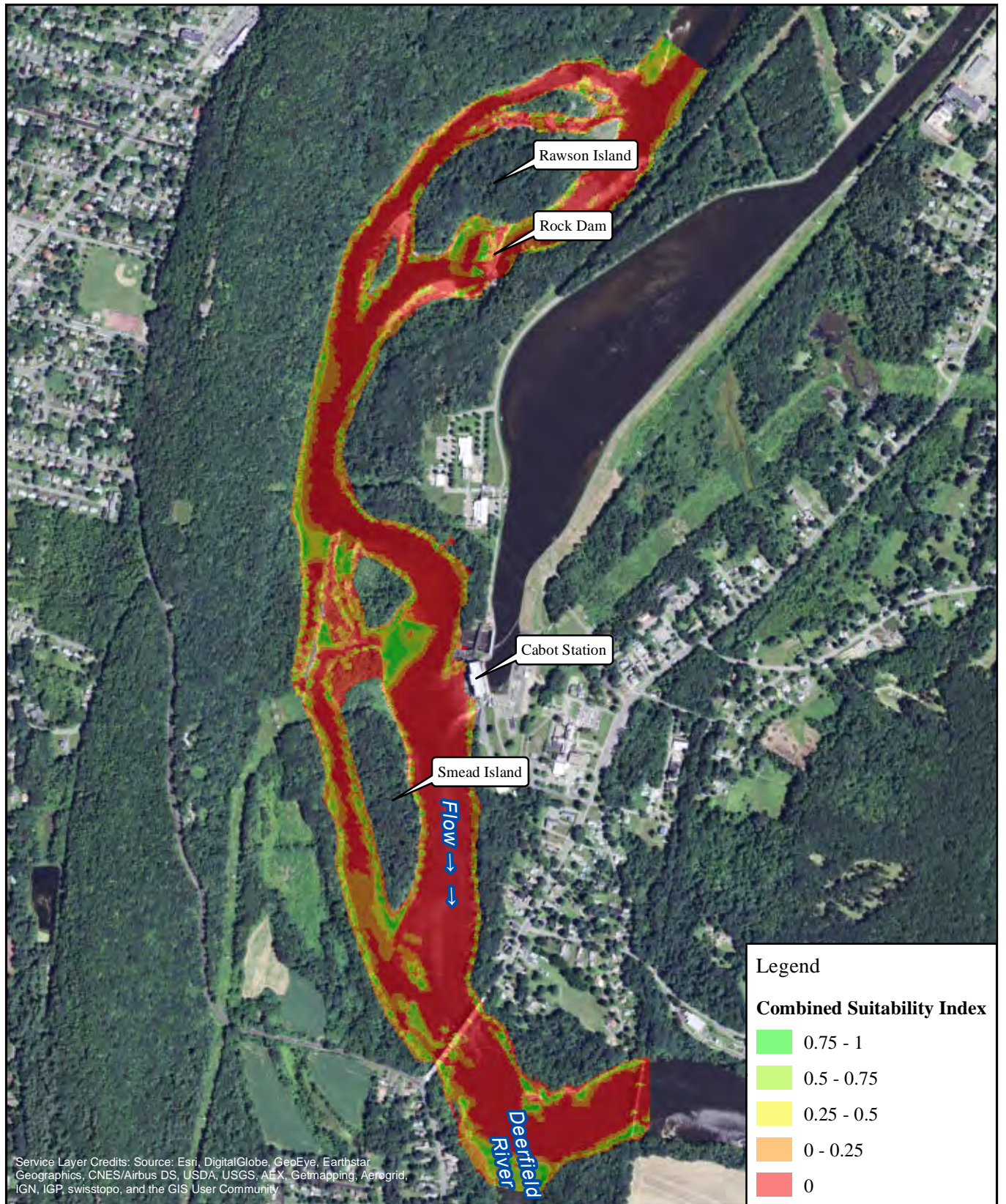
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Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

White Sucker-Juvenile-Adult
Cabot Flow: 7000 cfs
Bypass Flow: 3000 cfs
Deerfield Flow: 200 cfs

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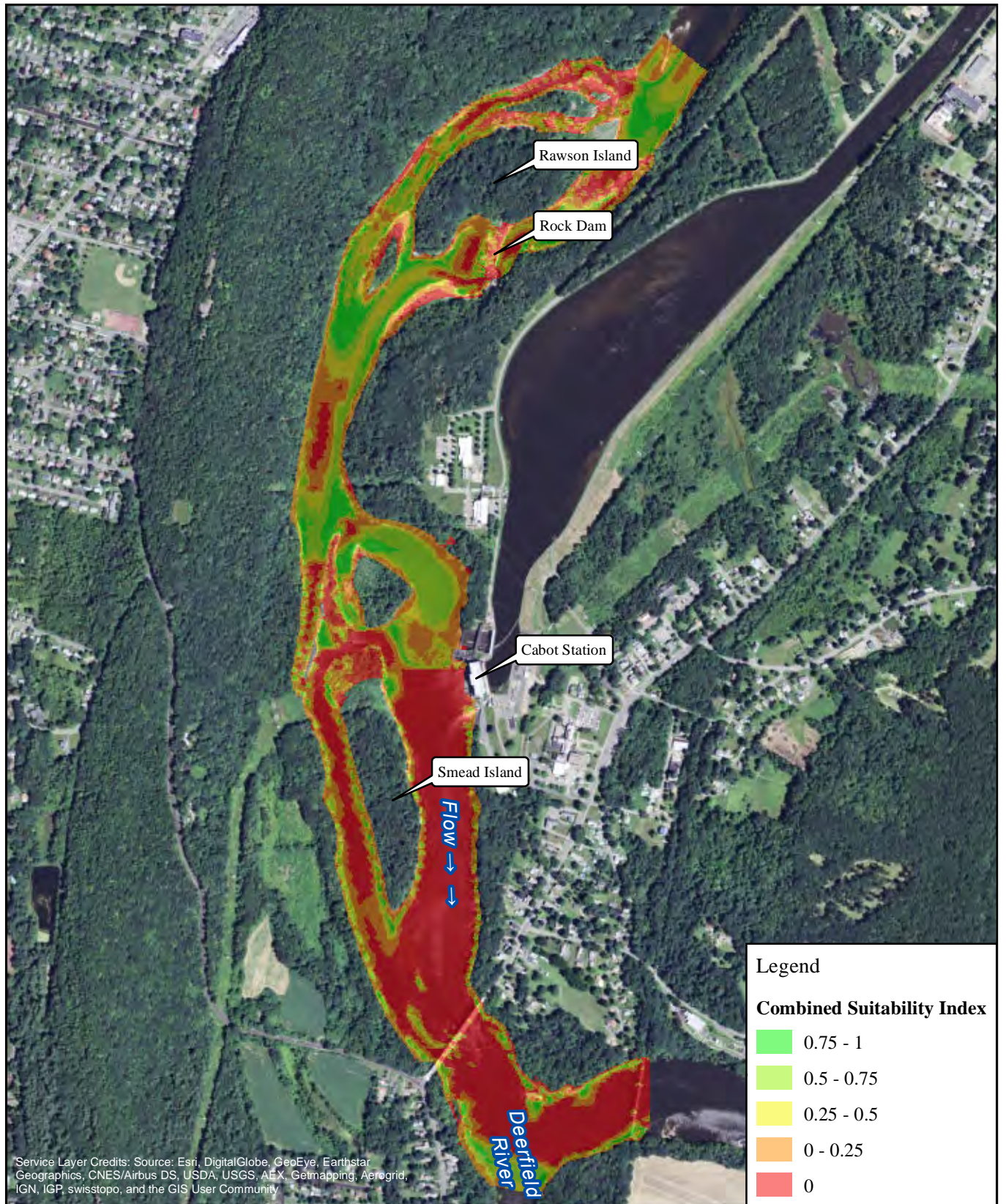
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
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0 500 1,000 2,000 Feet

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Bypass Flow: 5000 cfs
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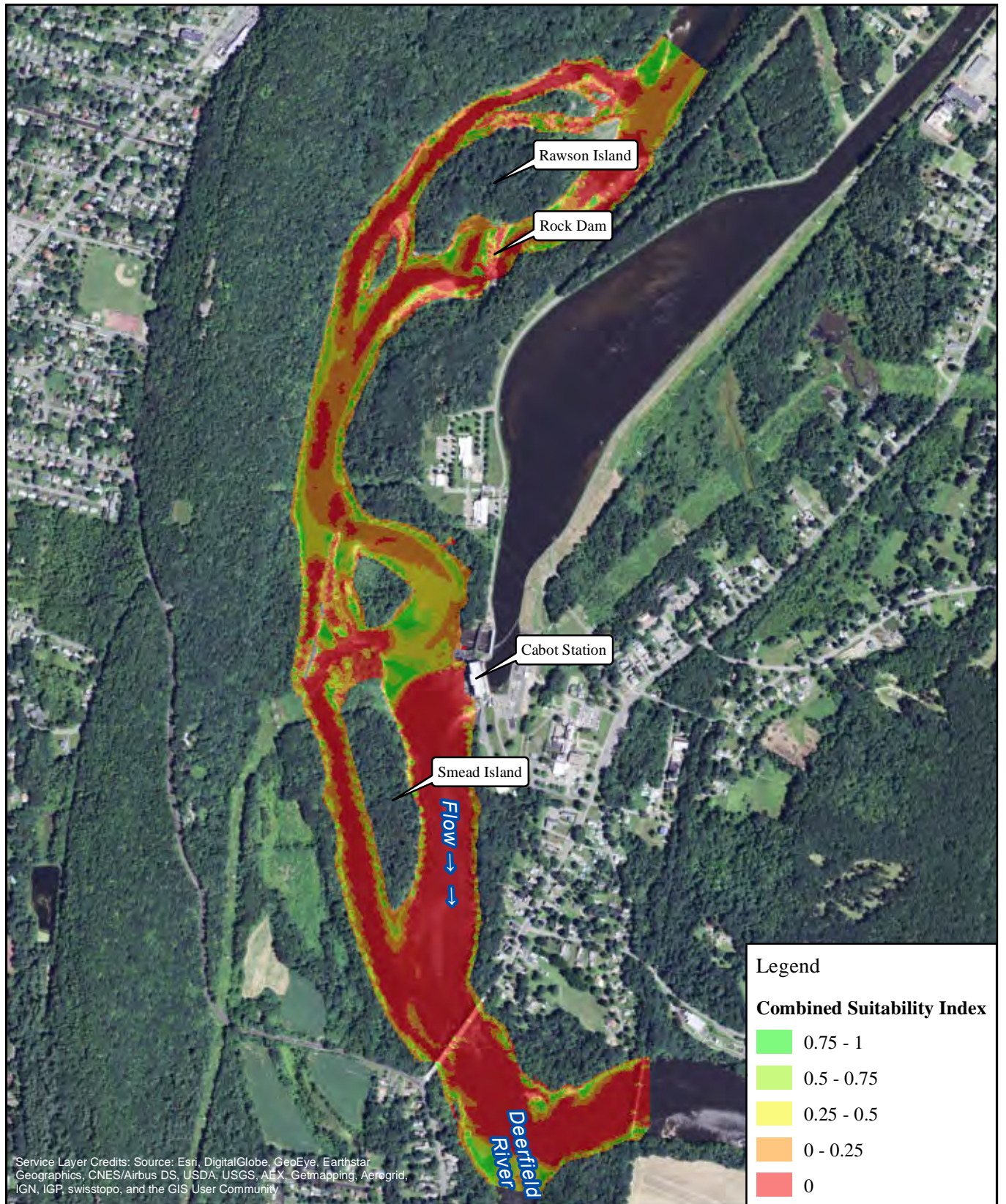
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
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0 500 1,000 2,000
Feet

White Sucker-Juvenile-Adult
Cabot Flow: 14000 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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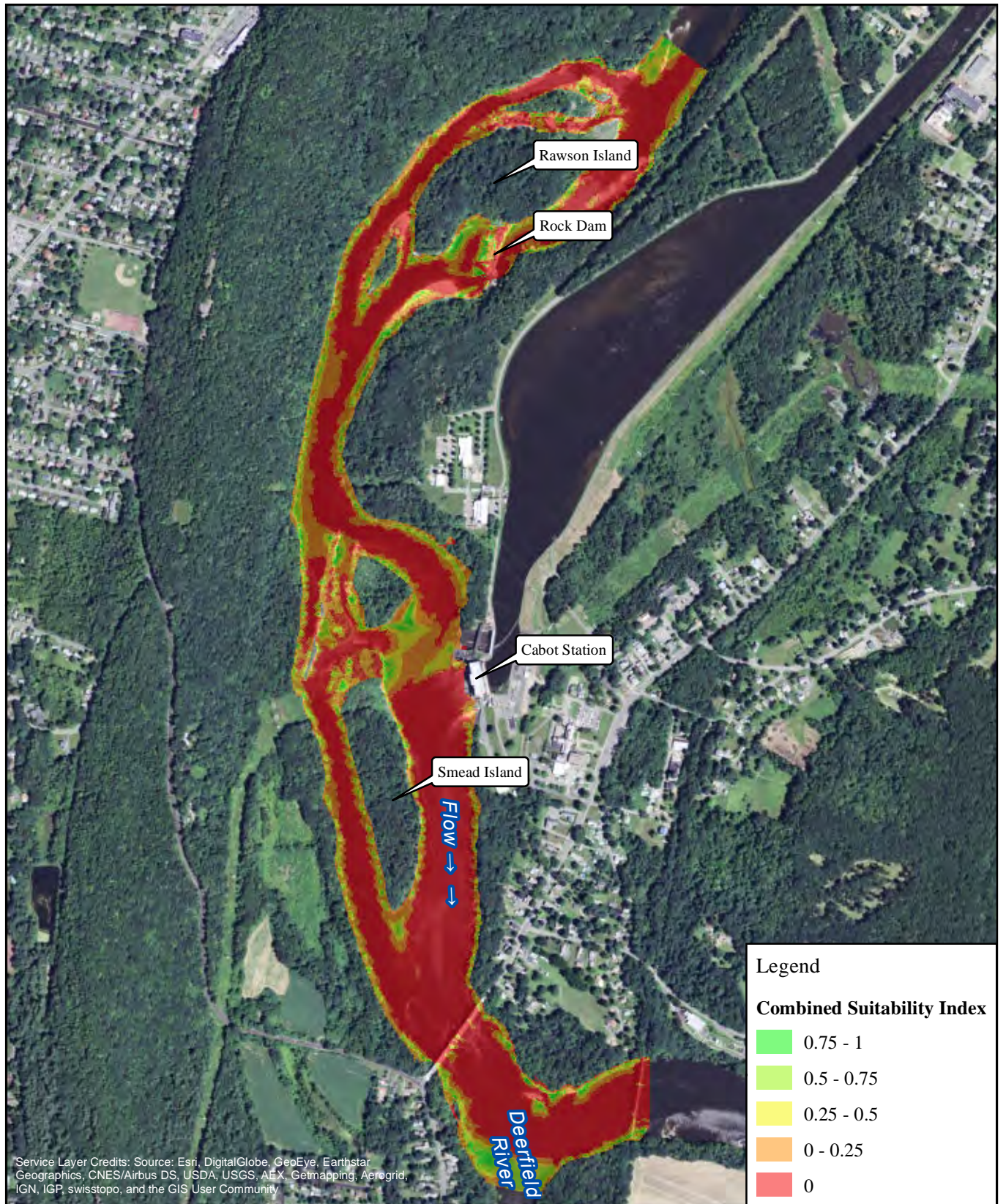
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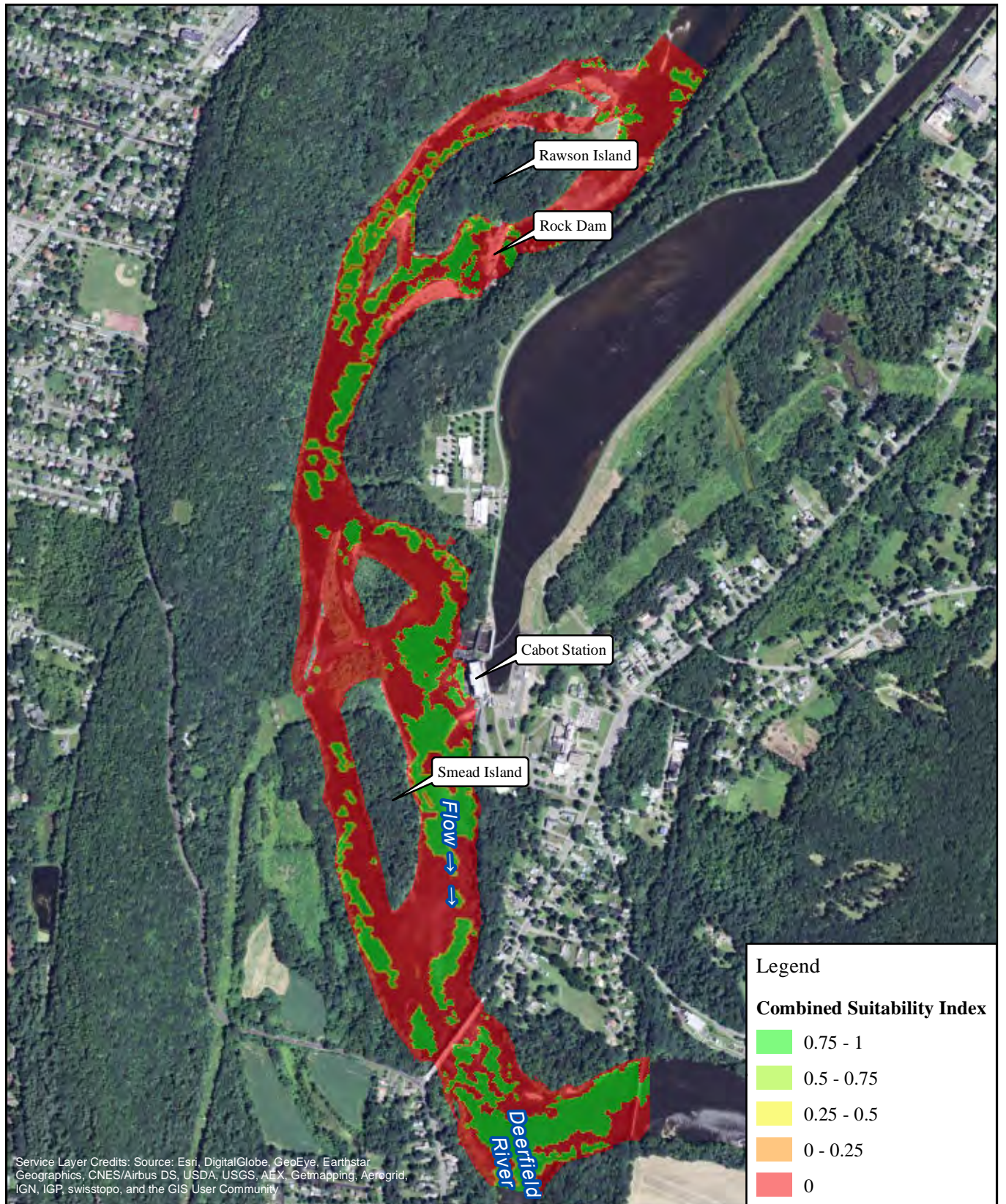
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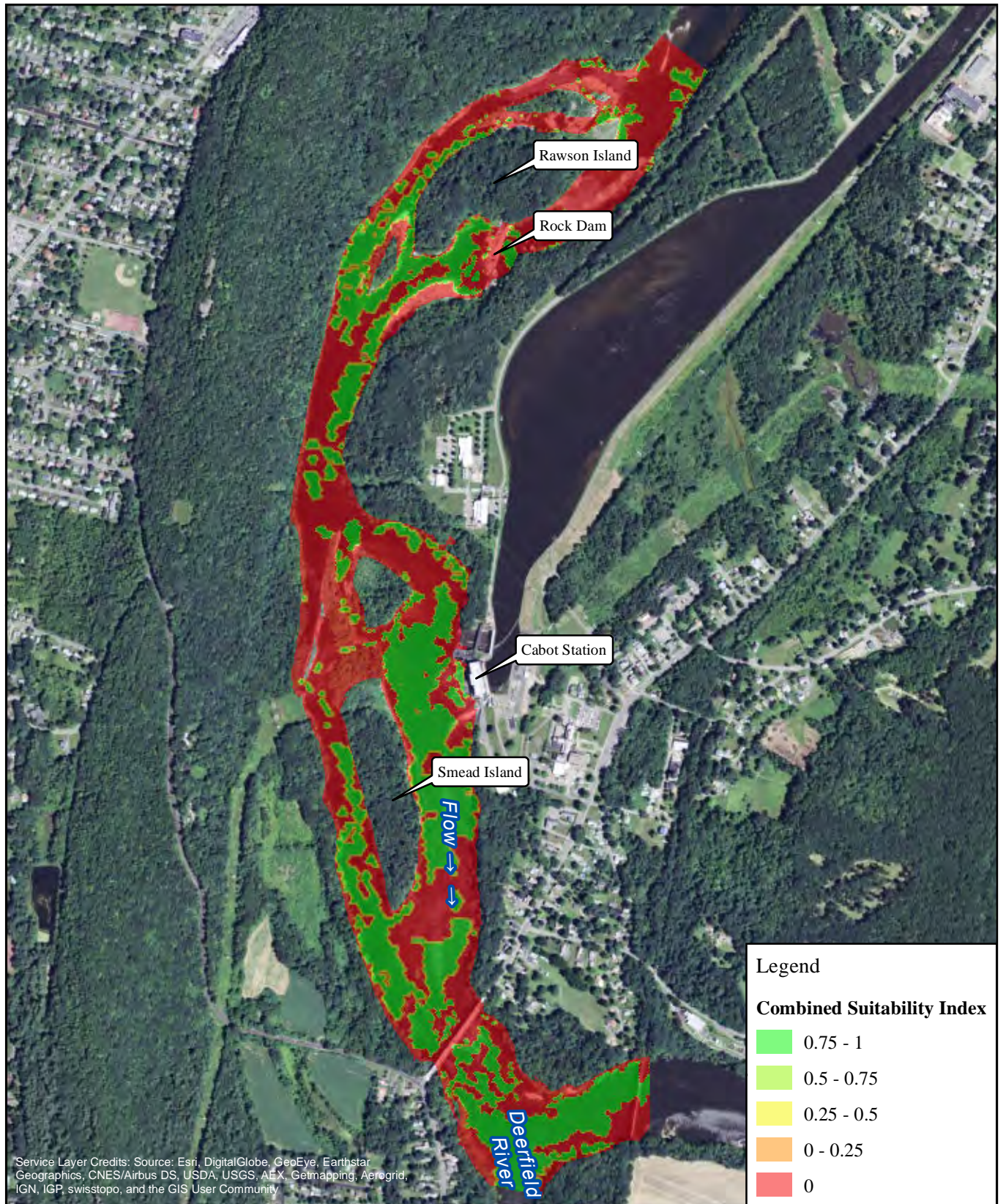
FIRSTLIGHT HYDRO GENERATING COMPANY
Northfield Mountain Pumped Storage Project No. 2485
Turners Falls Hydroelectric Project No. 1889
RELICENSING STUDY 3.3.1

0 500 1,000 2,000
Feet

Yellow Lampmussel-Juvenile
Cabot Flow: 2500 cfs
Bypass Flow: 1000 cfs
Deerfield Flow: 200 cfs

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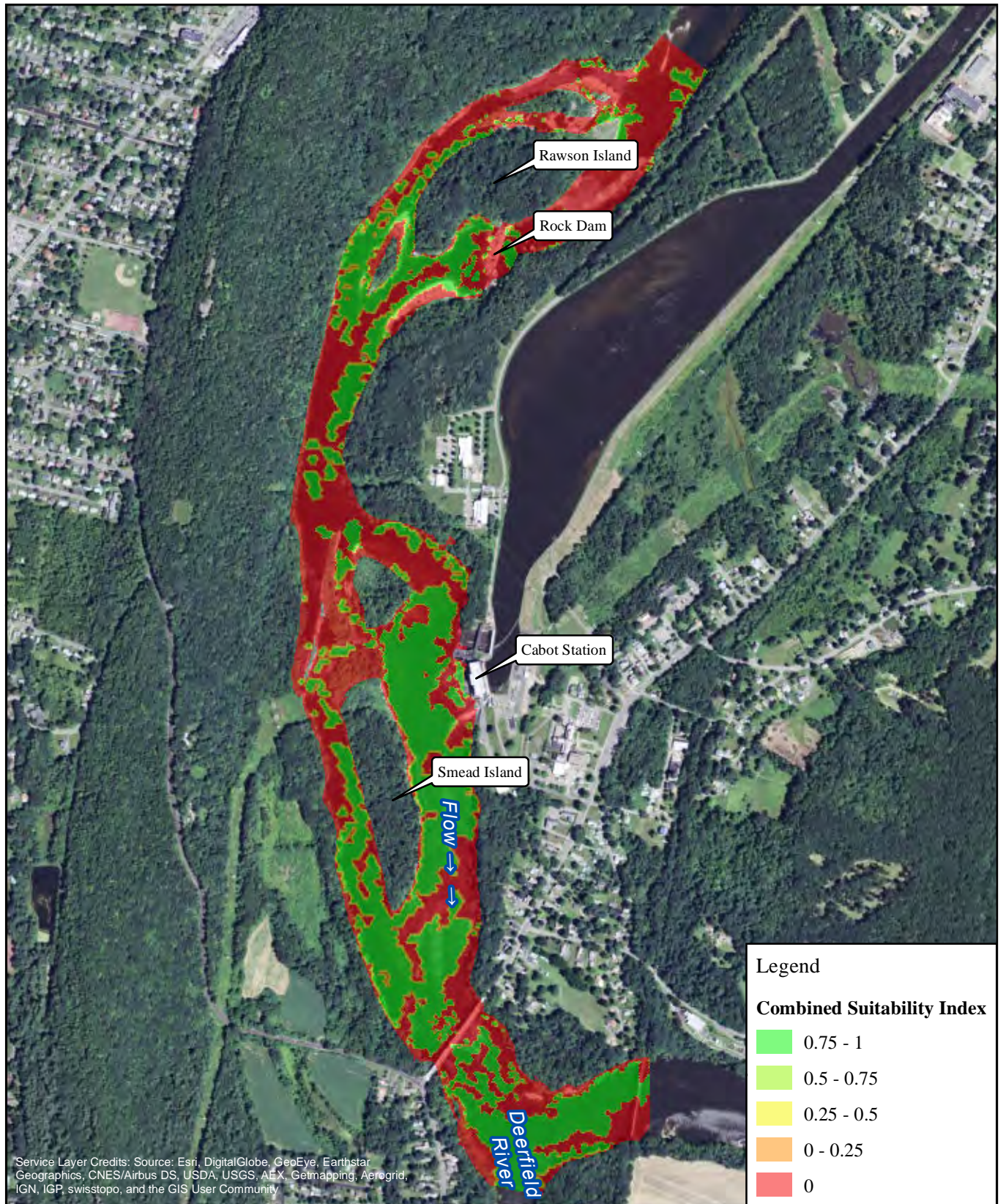
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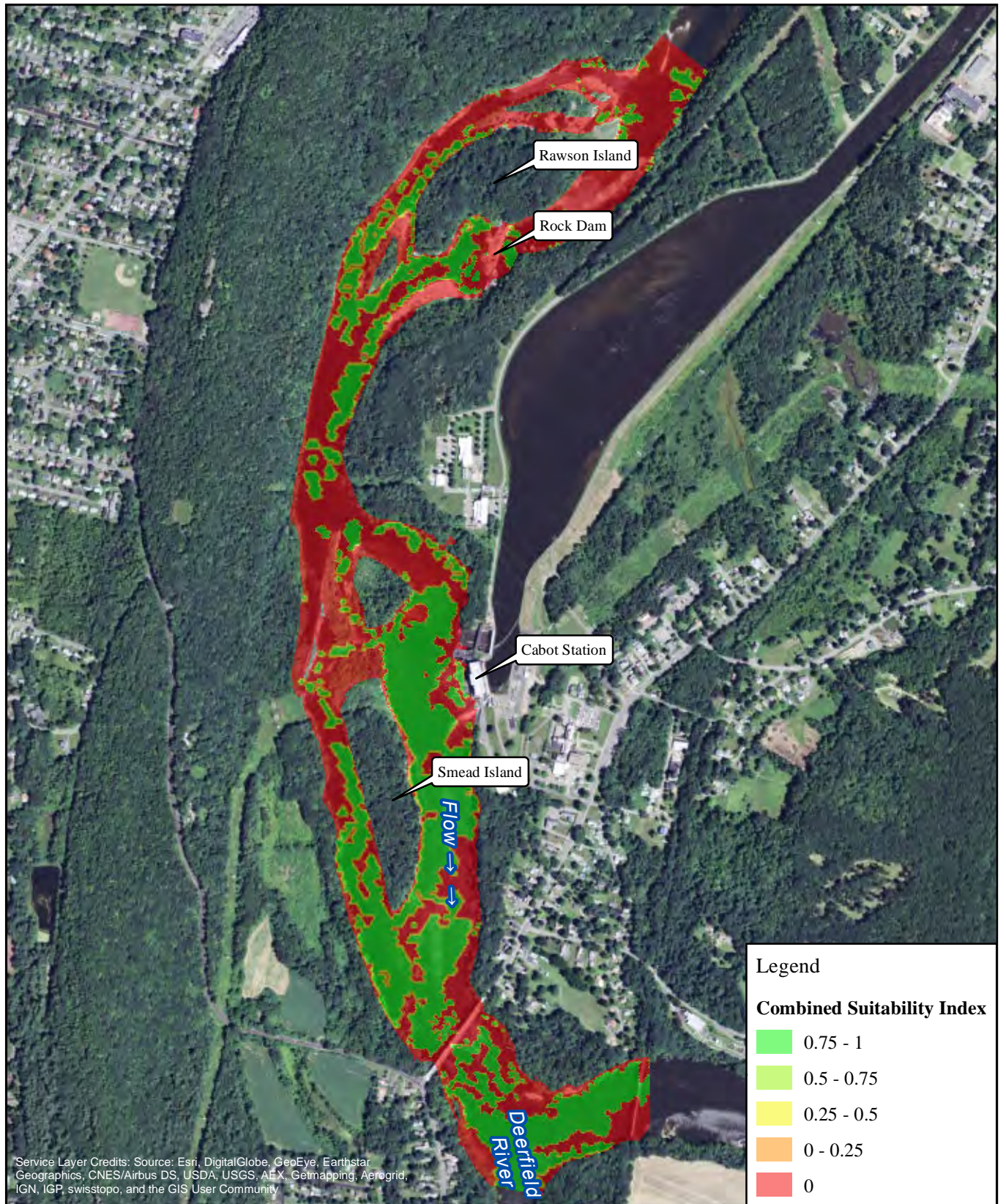
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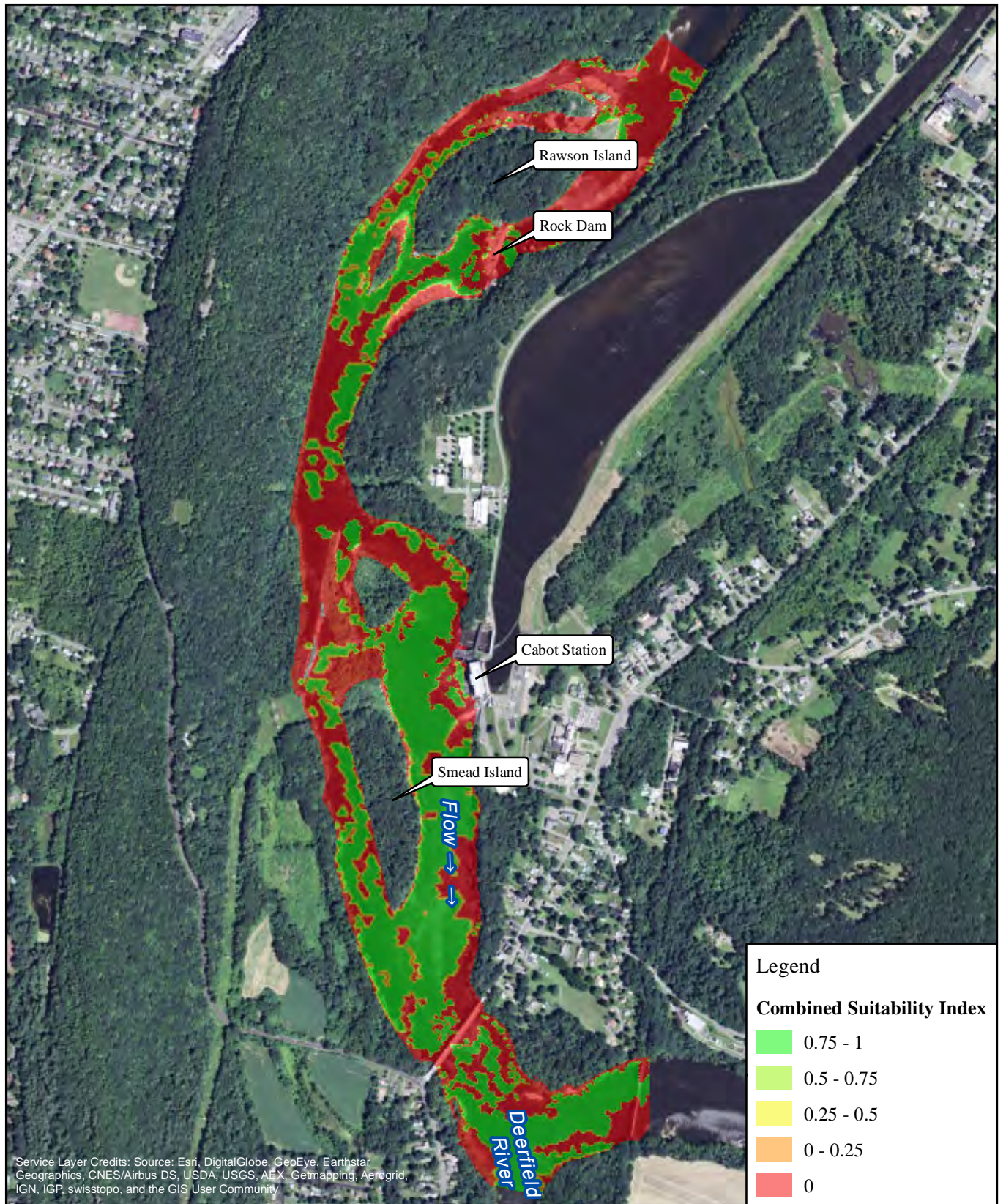
FIRSTLIGHT HYDRO GENERATING COMPANY
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Yellow Lampmussel-Juvenile
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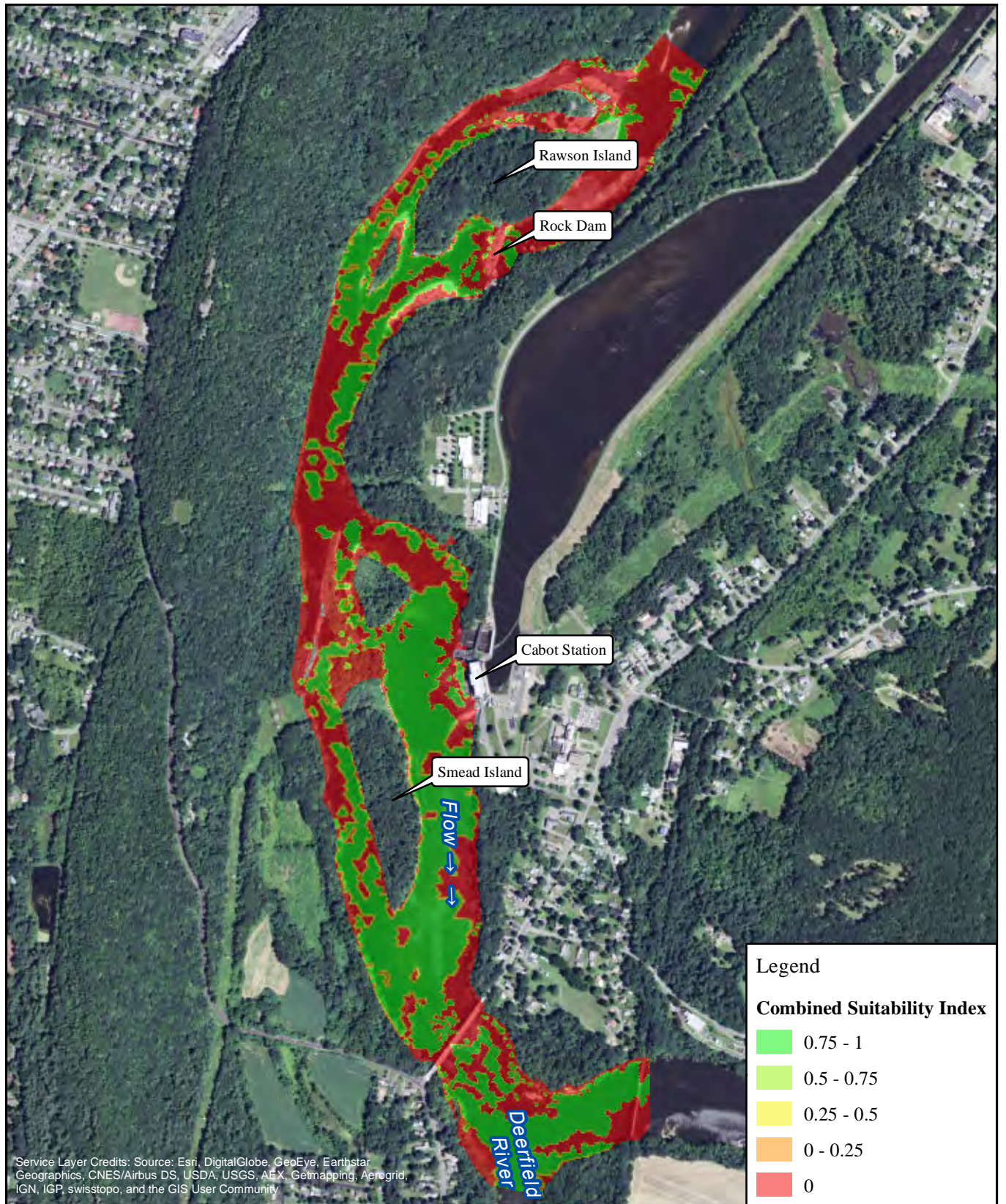
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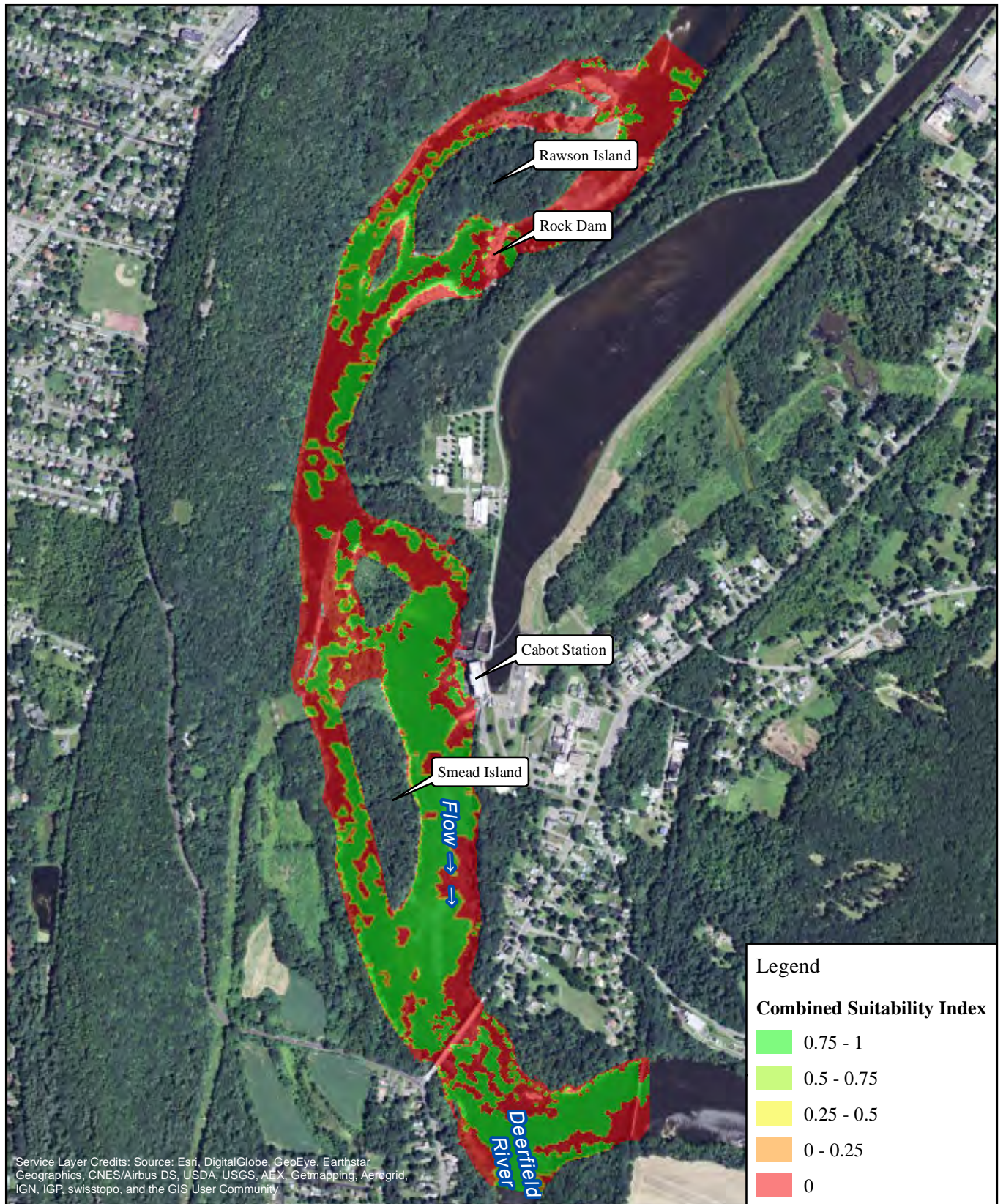
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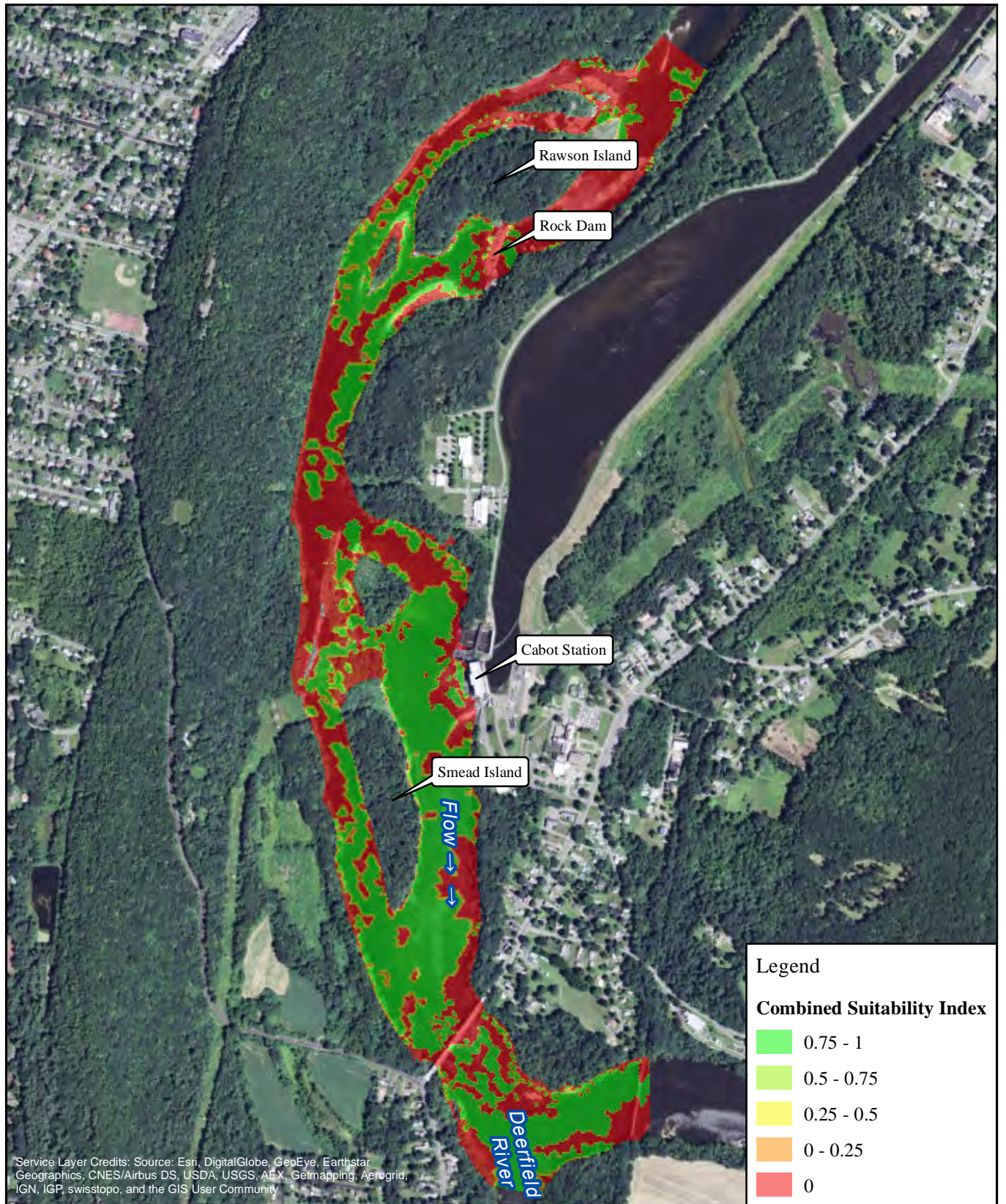
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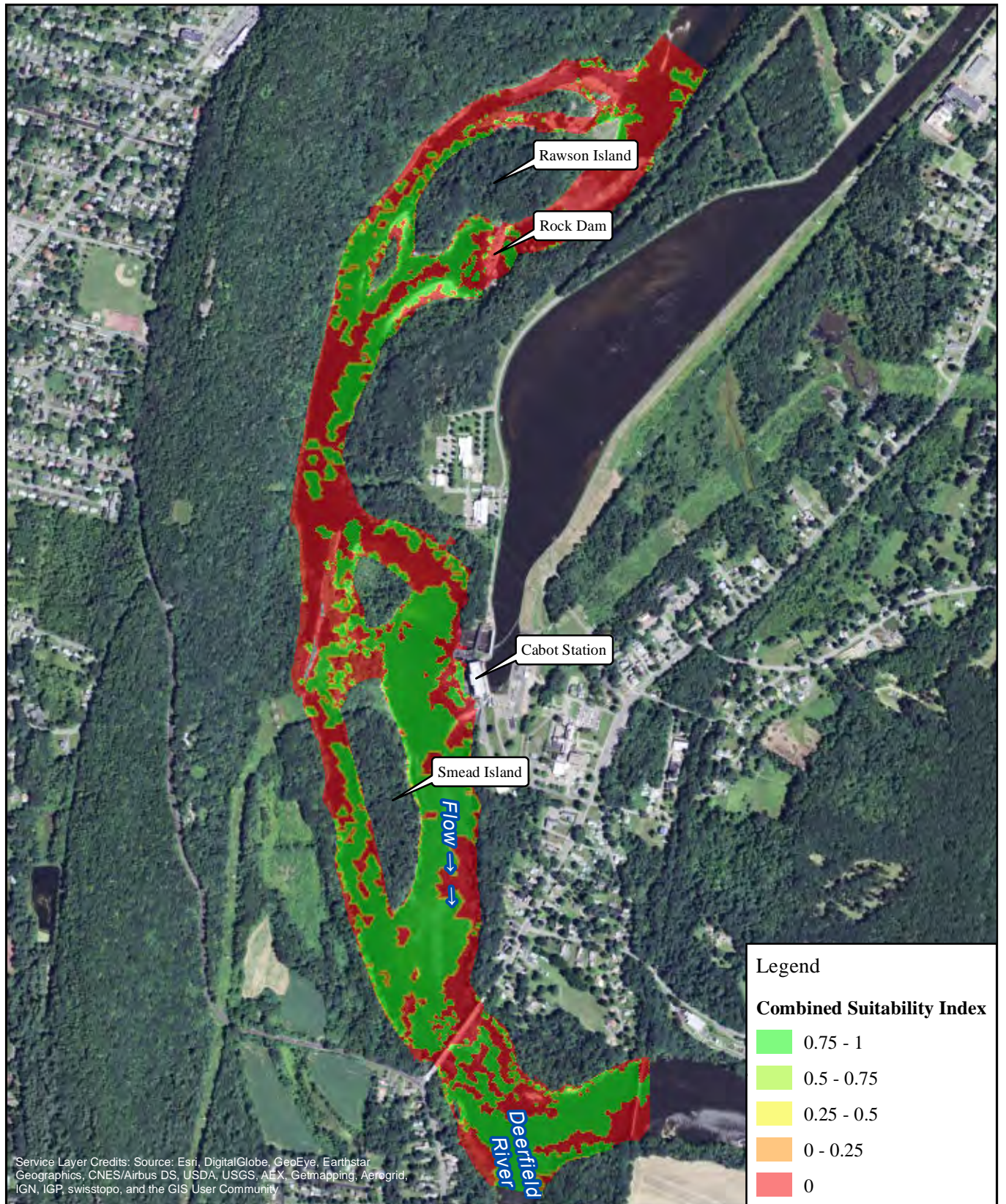
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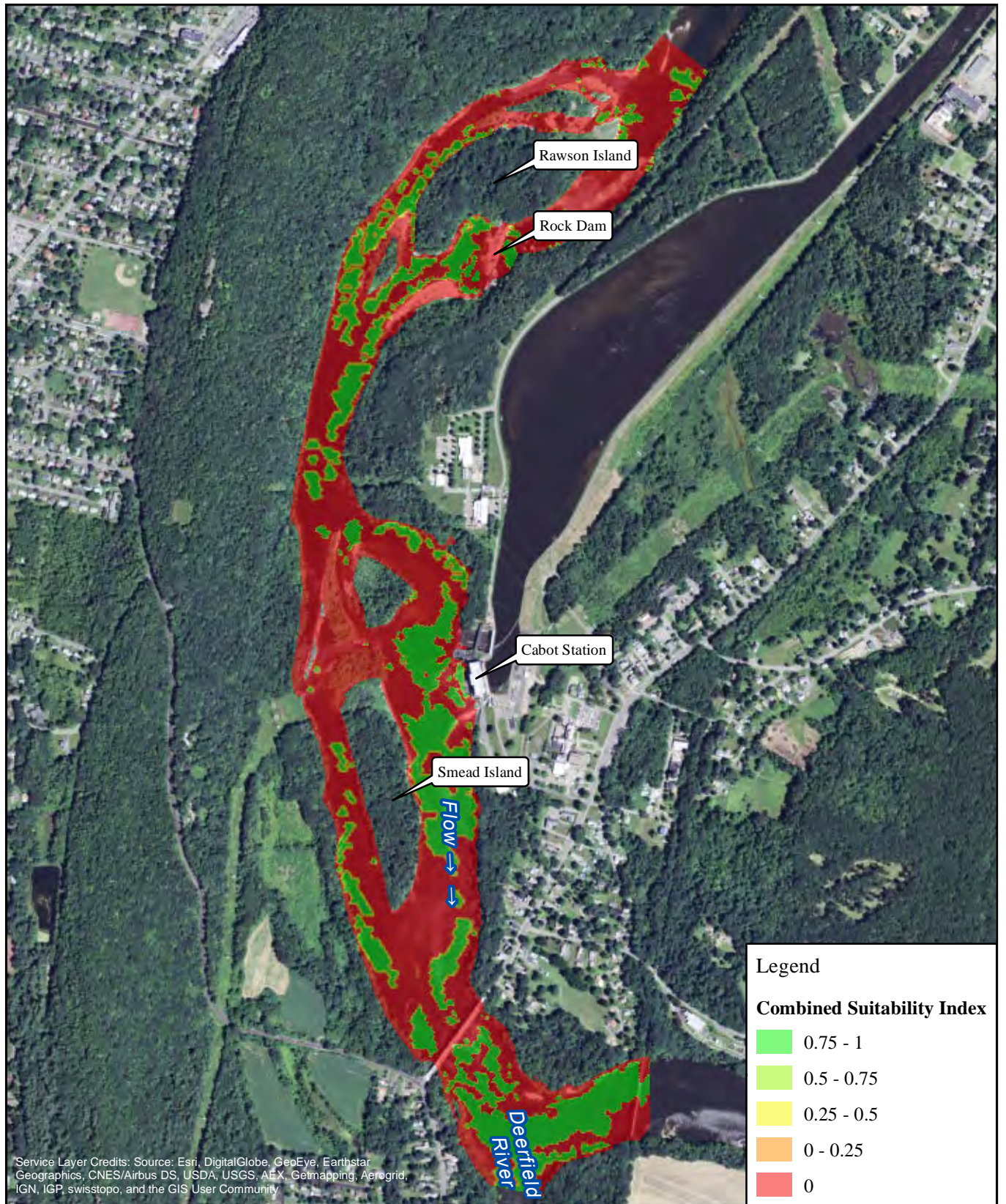
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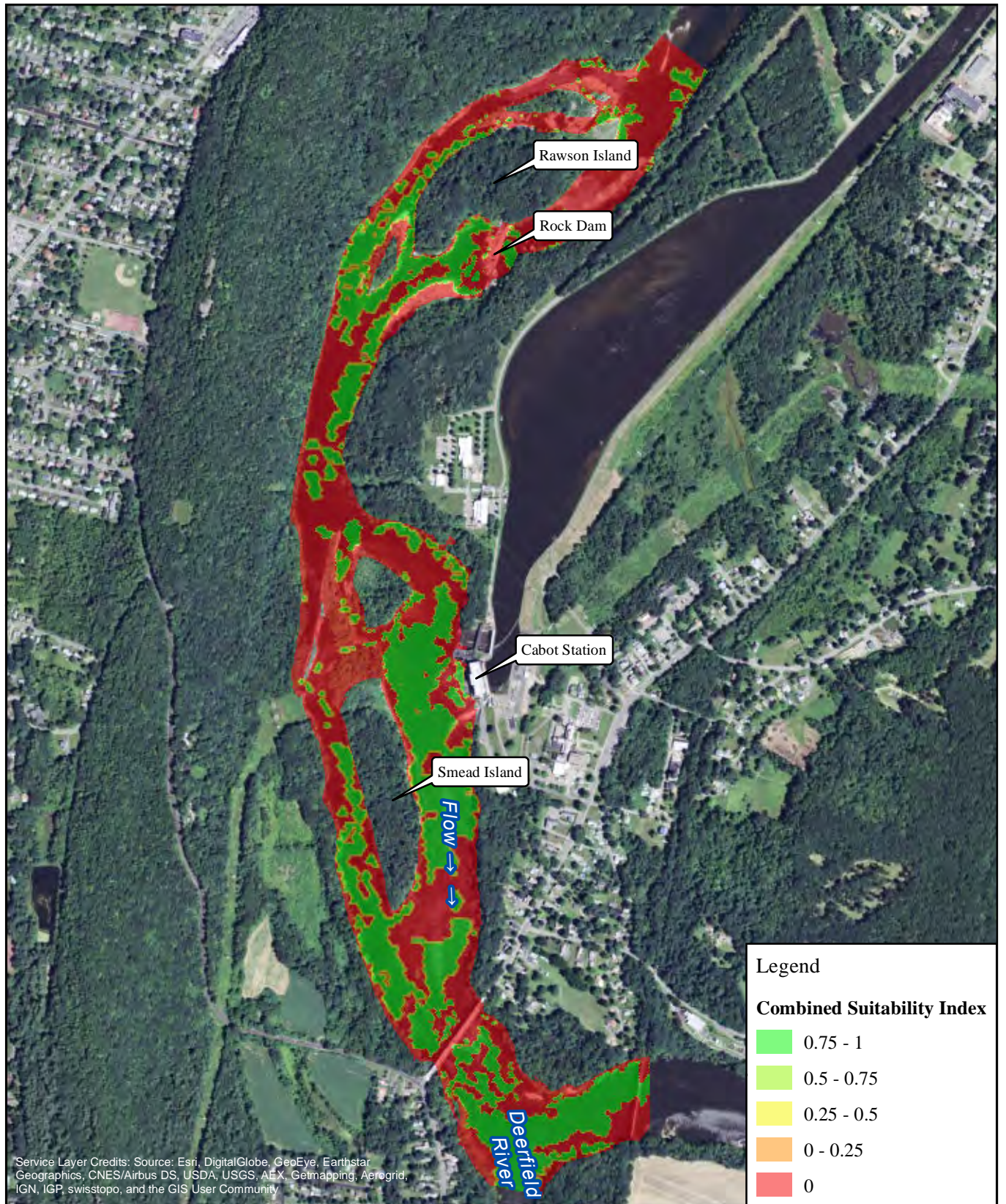
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Feet

Yellow Lampmussel-Adult
Cabot Flow: 2500 cfs
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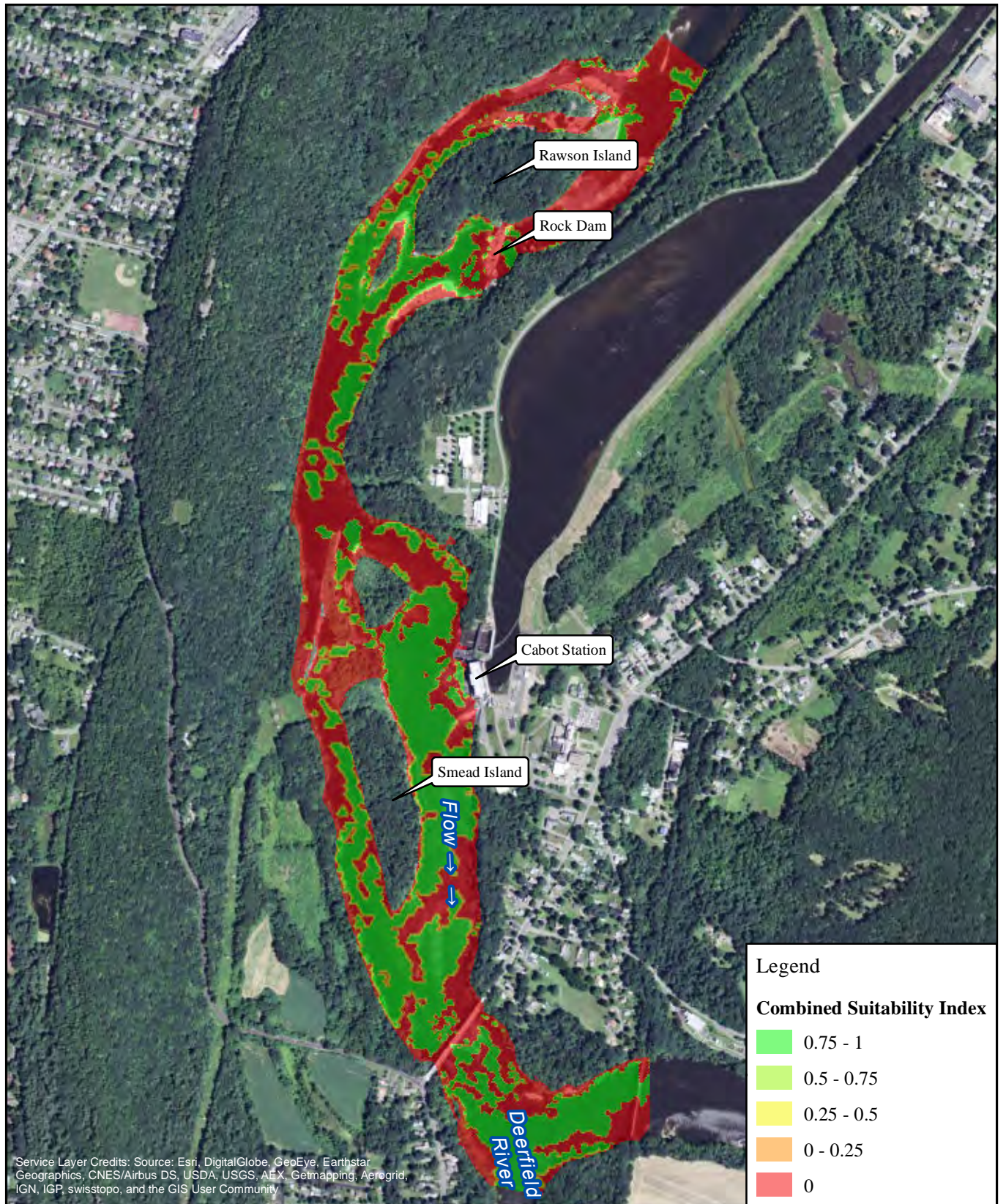
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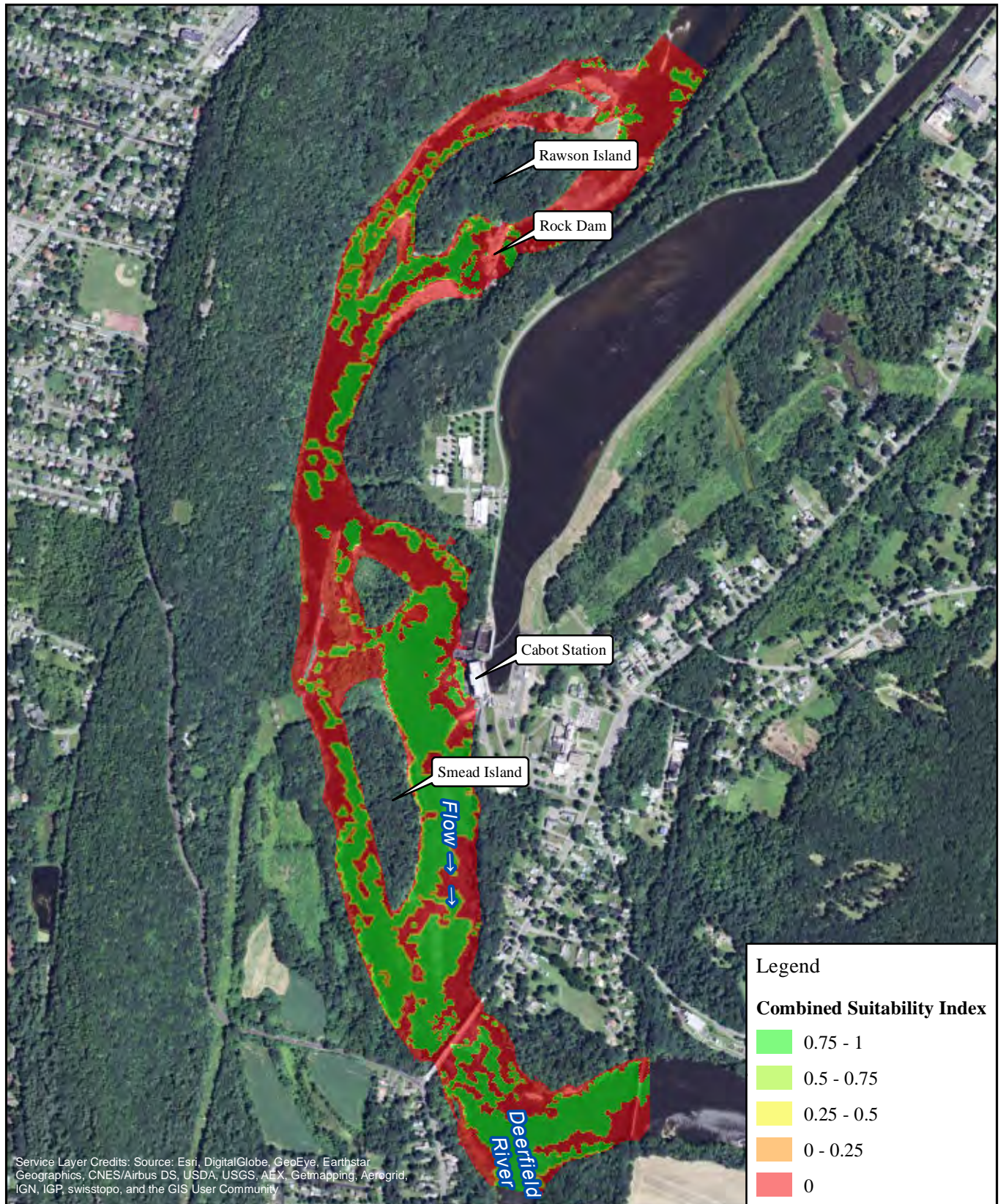
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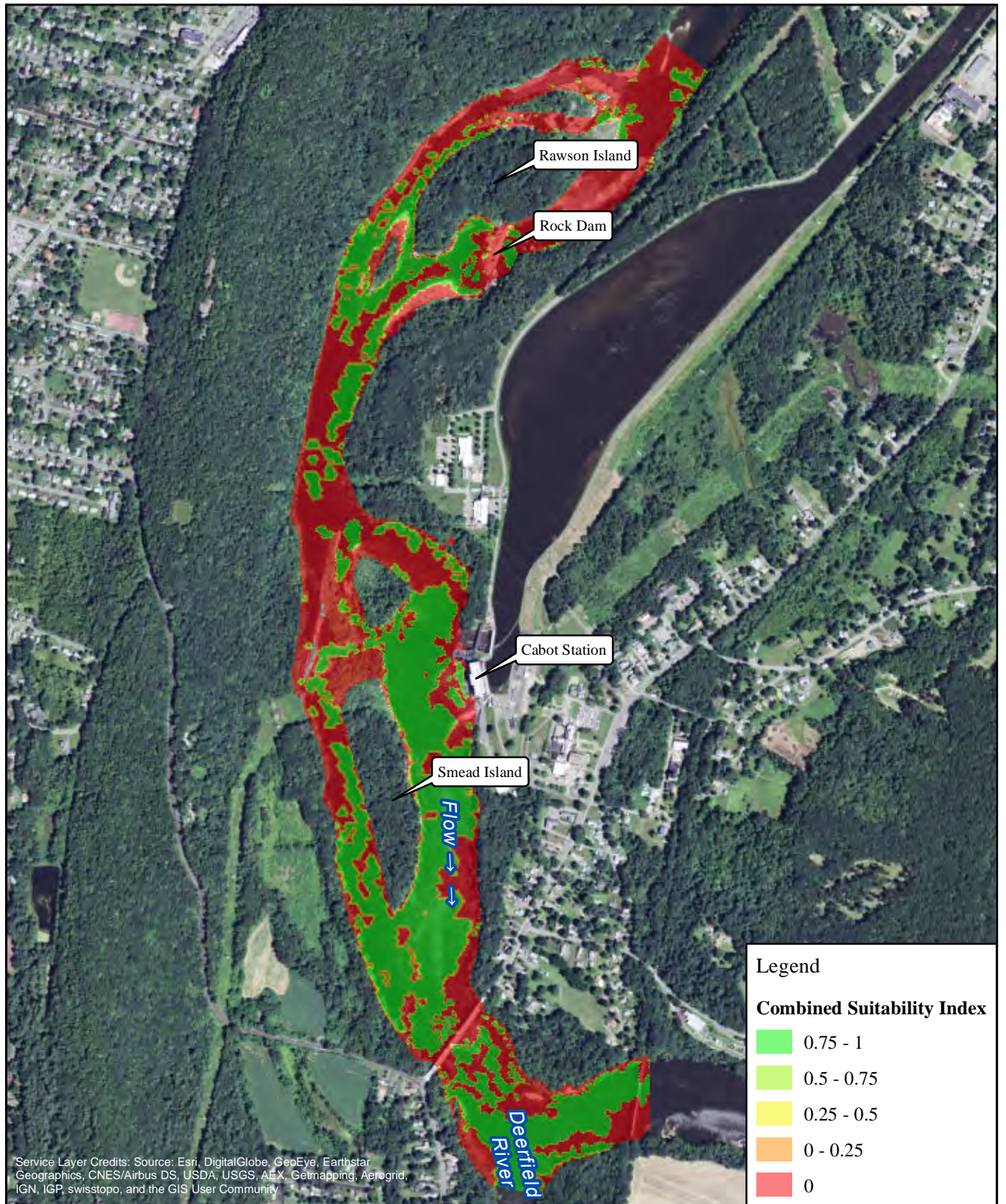
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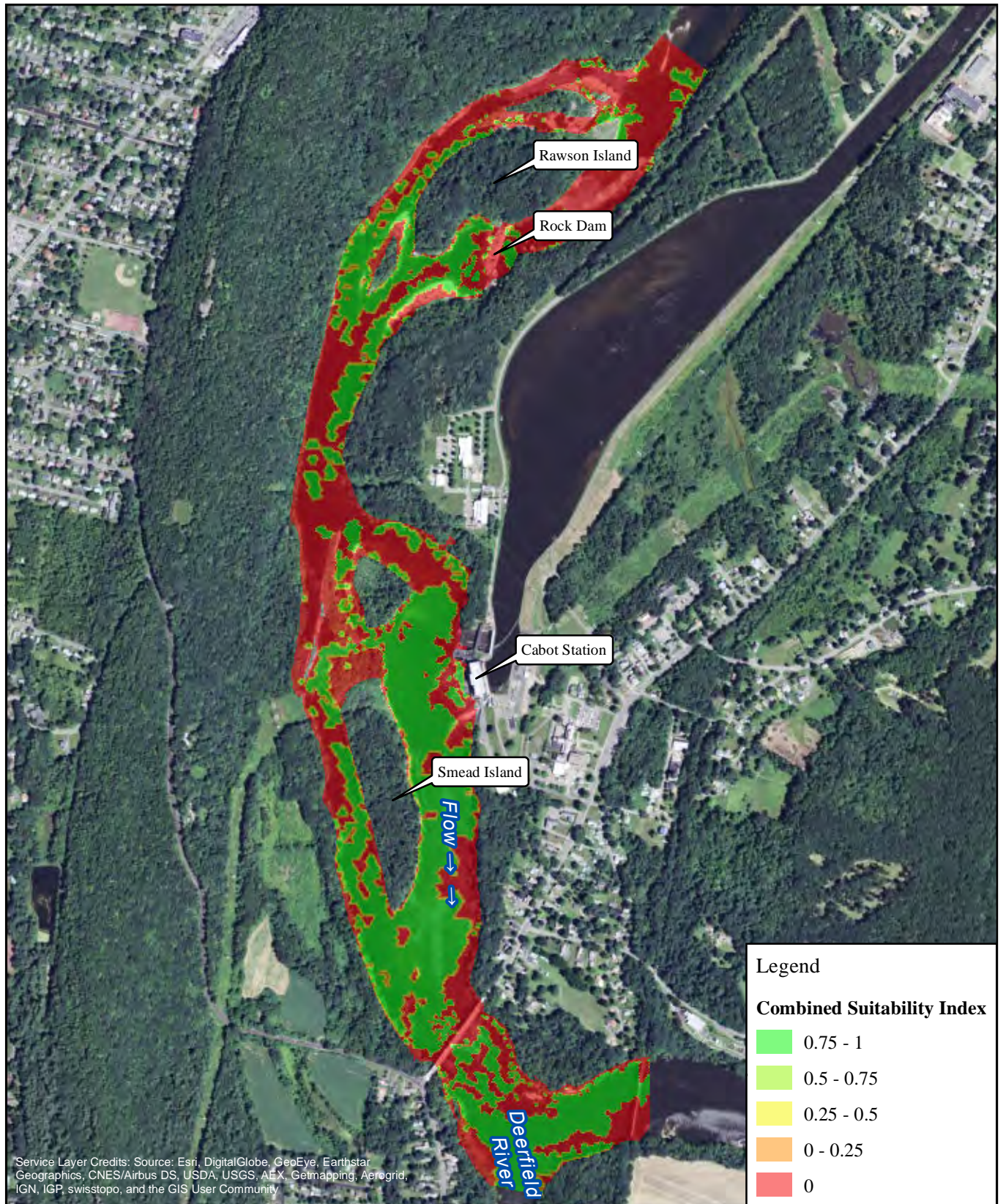
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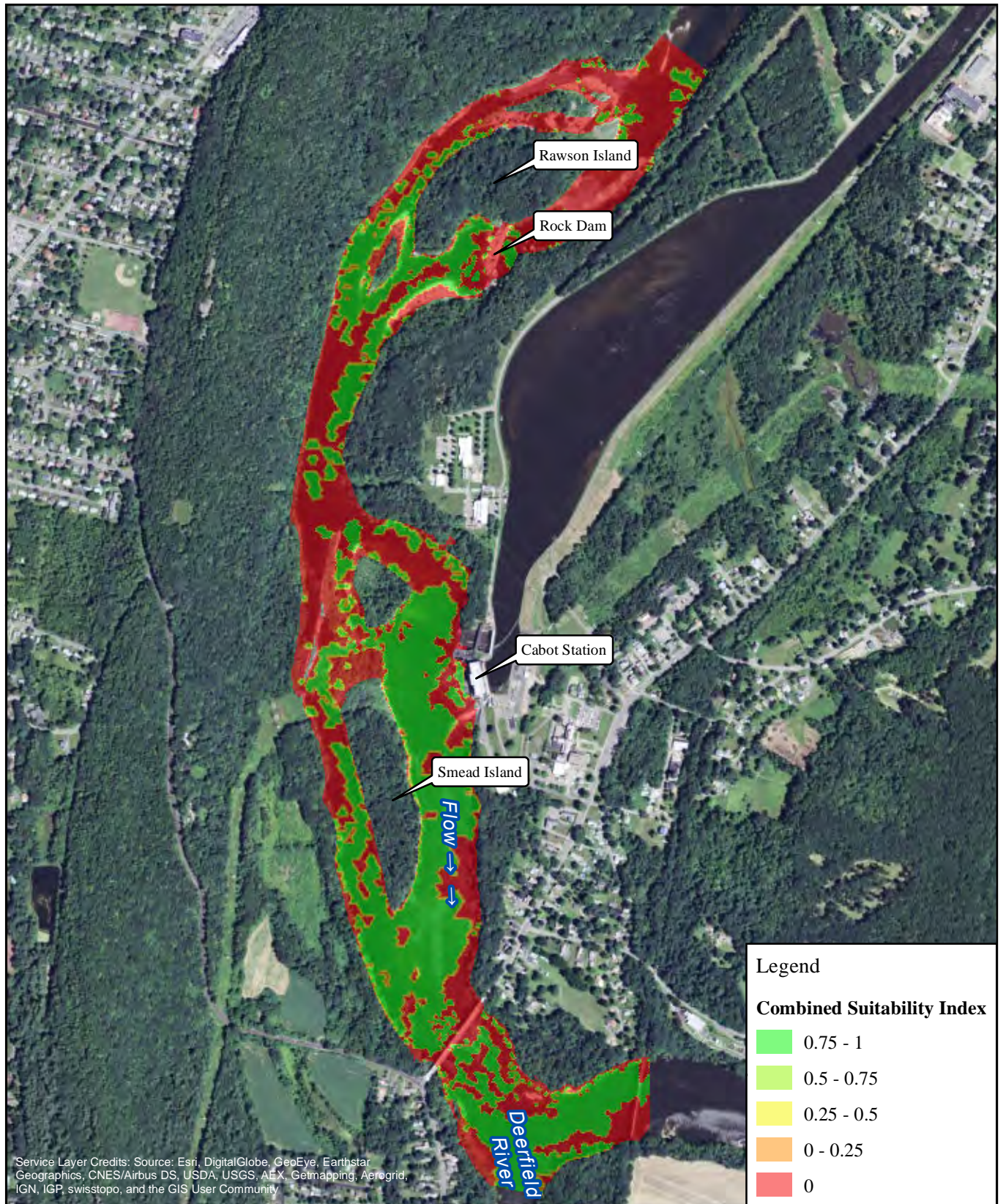
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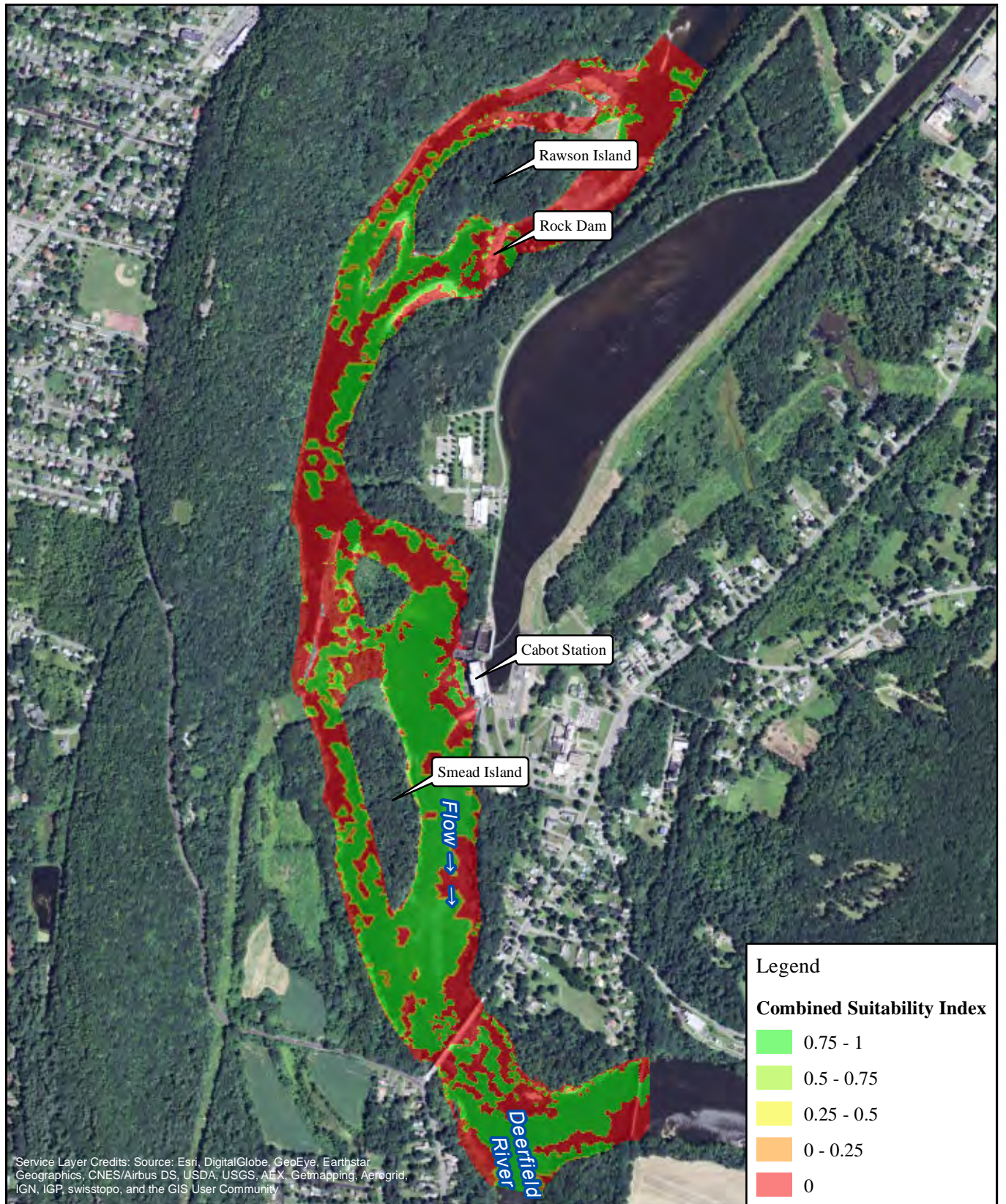
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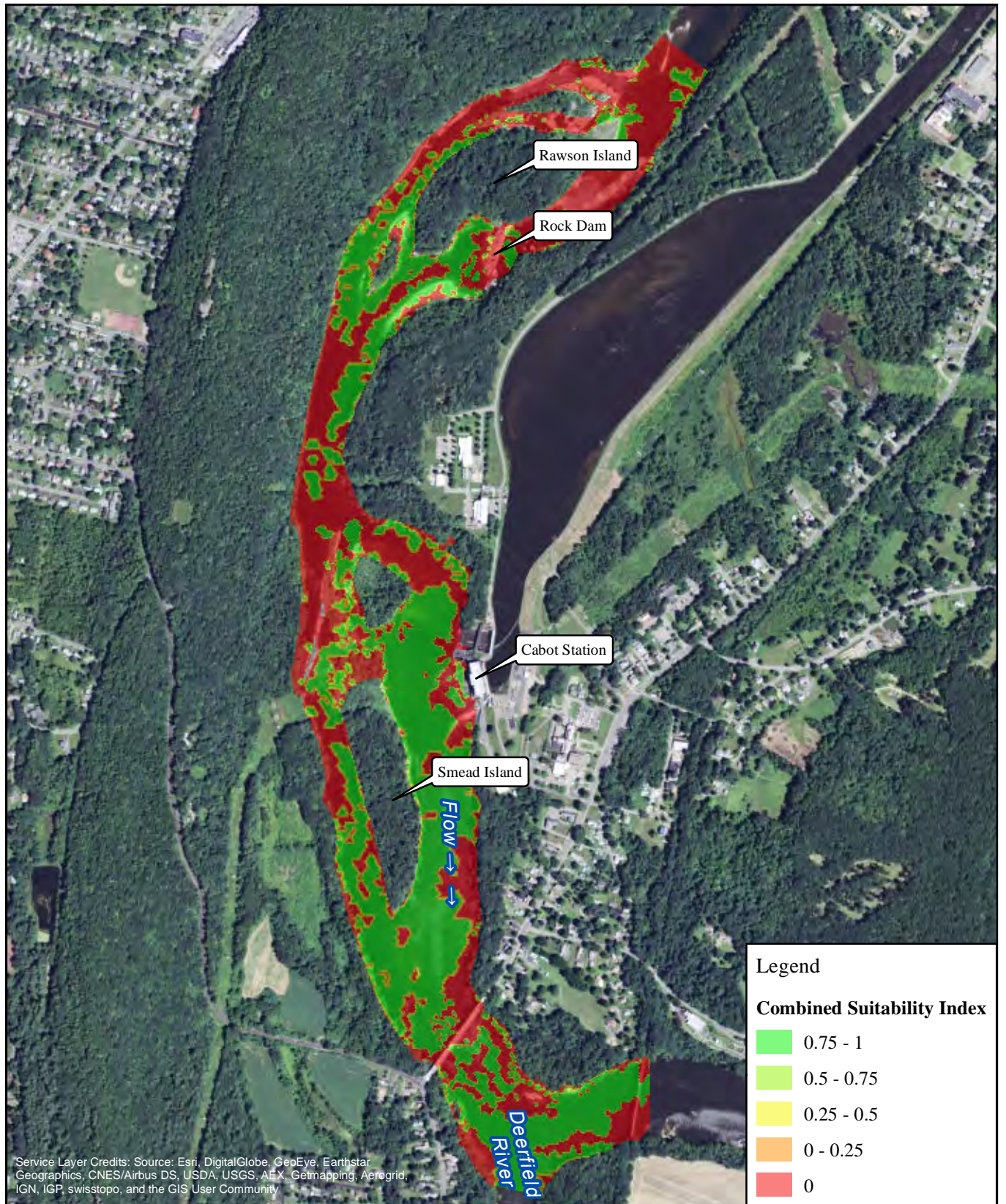
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