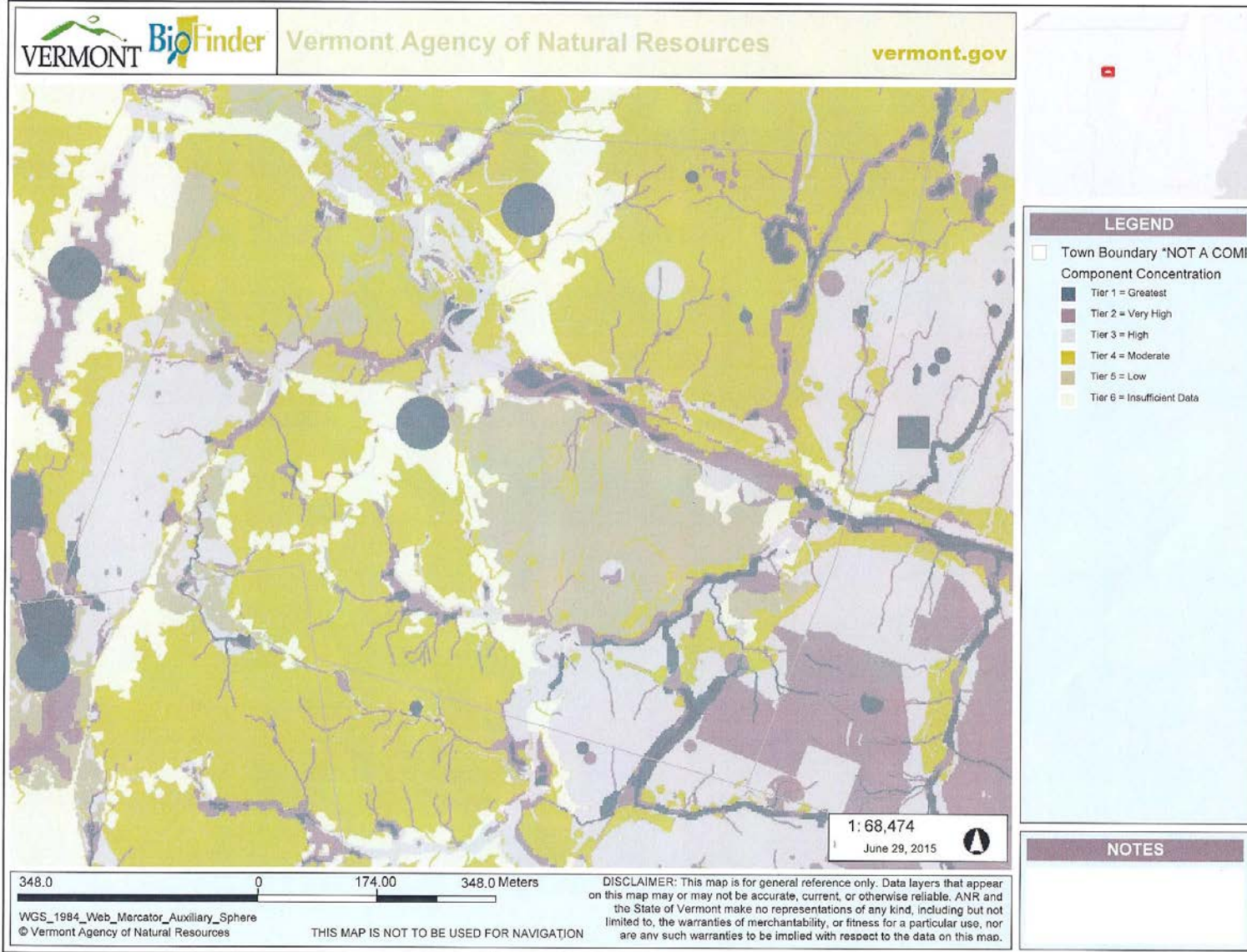**BioFinder-Map-1: Master**

BioFinder- Richmond-Report

Component / Acres

A1 Surface Waters & Riparian Areas: 4330.44 acres
Lakes, ponds, rivers, & streams from the Vermont Hydrological dataset. Riparian area extent was modeled using Land Type Associations.
A2 Representative Lakes: 30.82
100 representative lakes and ponds based on physical and chemical classification and condition.
A3 Important Aquatic Habitats & Species: 0.16
Lakes, ponds, rivers & streams supporting important aquatic habitats and species assemblages.

L1 Habitat Blocks: 11051.23
Areas of natural cover (mostly forest) surrounded by roads and development. These were prioritized for their biological value.
L4 Representative Physical Landscapes: 5961.36
Best examples of common physical landscapes based on biophysical characteristics (topography, geology and other physical conditions) and classed as Land Type Associations .
L5 Connecting Lands (<2000ac): 2518.06
Assessment of the quality of functional connections among habitat vital to species long-term persistence. Smallest unit of the landscape-scale connectivity network, important for far-ranging animal species across the Northern Appalachians.
L6 Connecting Blocks (2,000-10,000ac): 9921.76
Assessment of the quality of functional connections among habitat vital to species long-term persistence. Moderate sized unit of the landscape-scale connectivity network, important for far-ranging animal species across the Northern Appalachians.
L7 Anchor Blocks (>10,000ac): 794.25
Assessment of the quality of functional connections among habitat vital to species long-term persistence. Largest unit of the landscape-scale connectivity network, important to far-ranging animal species across the Northern Apalachians.
L8 Riparian Connectivity: 2970.95
Surface waters and riparian areas filtered by undeveloped land use that wildlife may use for movement.
L9 Road Crossings: 279.26
Discrete road sections bordered by appropriate vegetation with little development, buffered to connect to habitat blocks.

SN1 Rare Species: 283.31
Rare, threatened, and endangered plants and animals tracked by VFWD. Vernal pools where the rare Jefferson Salamander has been found. Bicknell's Thrush populations mapped to the extent of Montane Spruce Fir natural community boundary.
SN2 Uncommon Species: 182.16
Uncommon Species tracked by VFWD.
SN3 Rare Natural Communities: 7.75

Rare natural communities tracked by VFWD.
<u>SN4 Uncommon Natural Communities:</u> 348.53
Uncommon natural communities tracked by VFWD.
SN5 Common Natural Communities: 216.84
Excellent example (condition and size) of a common natural communities tracked by VFWD.
<u>SN6 Vernal Pools:</u> 115.71
Field verified vernal pools.
<u>SN7 Potential Vernal Pools:</u> 51.92
Vernal pools identified via GIS analyses but not yet field verified. Assessments suggest 80% accuracy of GIS analyses.
<u>SN8 Wetlands:</u> 590.57
All wetlands from Vermont Significant Wetland Inventory.
<u>SN9 Mast Production Areas:</u> 65.26
Stands of oak and/or beech trees providing critical seasonal food source to wildlife; point data buffered to a standard radius of 290m.

BioFinder Tiered priorities Matrix

Components Contributing to Biodiversity
BioFinder was founded on 21 components of **biological diversity** that were mapped statewide. The components are grouped into three general categories—landscapes, aquatics, and species and natural communities. Some of the components, such as rare species, wetlands, and rare habitat types, are commonly known, but other components, such as habitat connectivity and mast production areas, are less well known.

The 21 Components Contributing to Biological Diversity	
#	**Component Name**
Landscapes	
L1	Habitat Blocks
L2	Grasslands and Shrub lands
L3	Rare Physical Landscape
L4	Representative Physical Landscape
L5	Connecting Lands (<2000ac)
L6	Connecting Blocks (2,000-10,000ac)
L7	Anchor Blocks (>10,000ac)
L8	Riparian Connectivity
L9	Wildlife Road Crossings
Aquatics	
A1	Surface Waters & Riparian Areas
A2	Representative Lakes
A3	Important Aquatic Habitats & Species Assemblages
Species & Natural Communities	
SN1	Rare Species
SN2	Uncommon Species
SN3	Rare Natural Communities
SN4	Uncommon Natural Communities
SN5	Common Natural Communities
SN6	Vernal Pools
SN7	Vernal Pools (Potential)
SN8	Wetlands
SN9	Mast production areas