

Status Update: Salado Salamander's Critical Habitat Designation and Species Status Assessment

November 17th, 2021





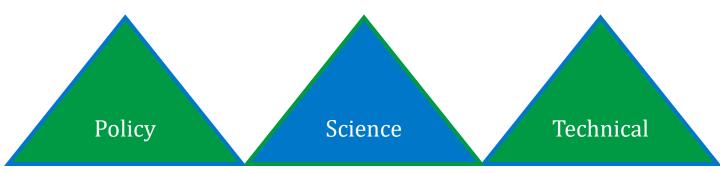
Background





Who We Are

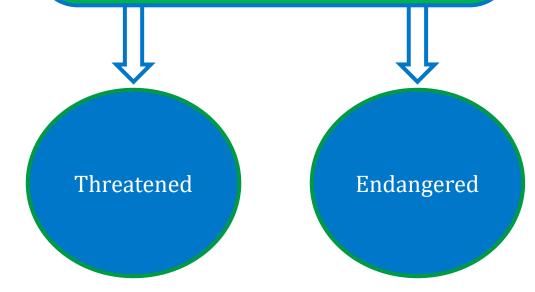
- Natural resource and environmental consulting firm specializing in regulatory and non-regulatory processes regarding the Endangered Species Act (ESA).
- Offices in Gatesville (Coryell County) and Austin, Texas.
- Co-Founder and President: Steve Manning.
- Project Manager: Madelyn Todd.

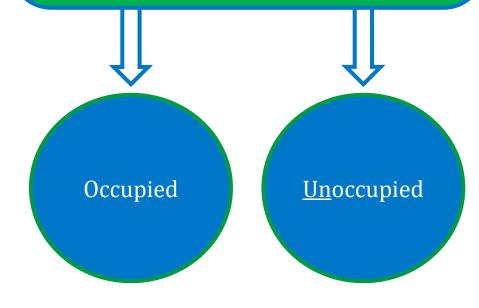




Useful Terms

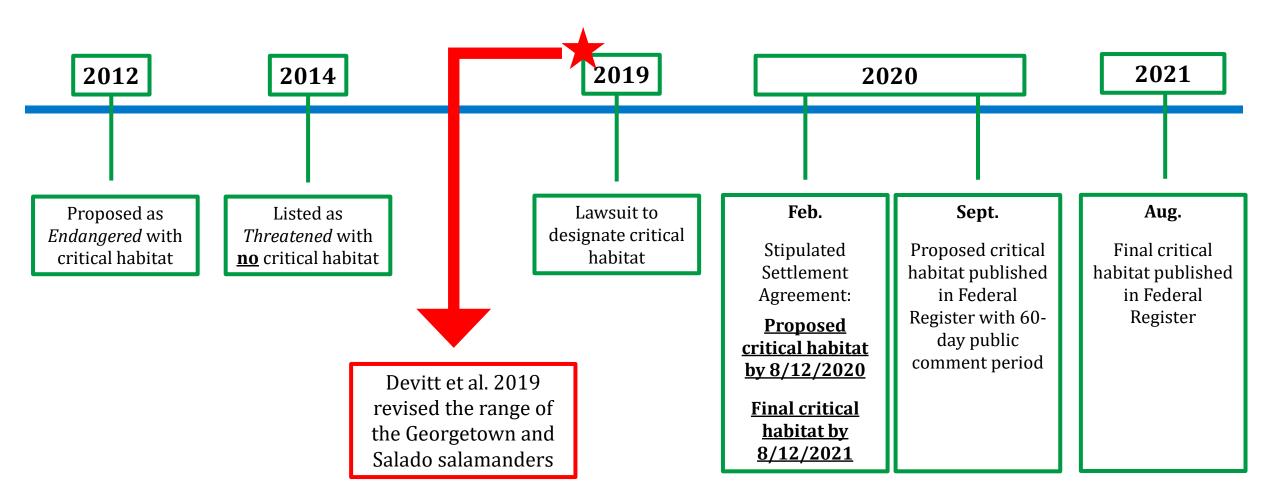
Listed Species: Federally protected species under the ESA **Critical Habitat:** Geographic areas with features essential to the conservation of listed species







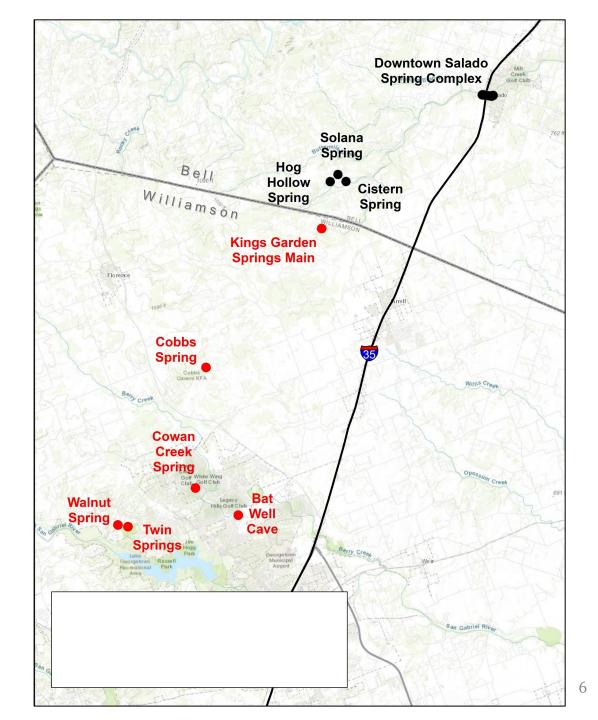
Salado Salamander Timeline





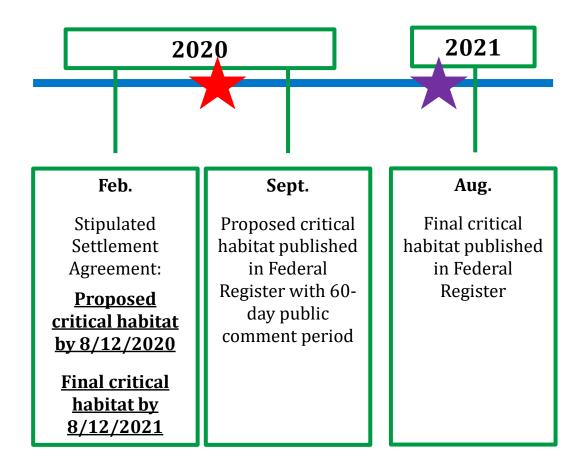
Revised Range

- Original Salado salamander spring sites were limited to Bell County (black).
- Several Georgetown salamander spring sites in Williamson County were reclassified as Salado salamander sites due to new genetic research (red).





NRS Involvement



<u>May 2020</u>

Bell County Adaptive Management Coalition (Coalition) contracted NRS to provide accurate and defensible information for the U.S. Fish and Wildlife Service's (USFWS) designation of critical habitat.

March 2021

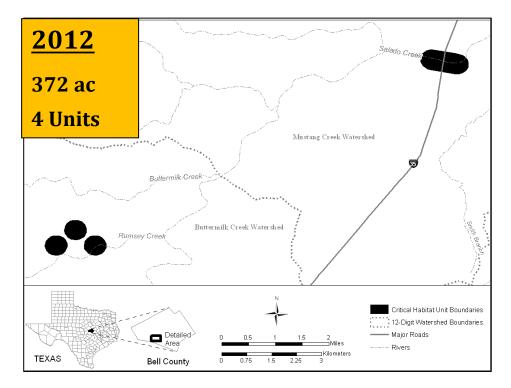
Based on USFWS initiation of a Species Status Assessment (SSA), contract was amended to include SSA-related services.

Designation of Critical Habitat



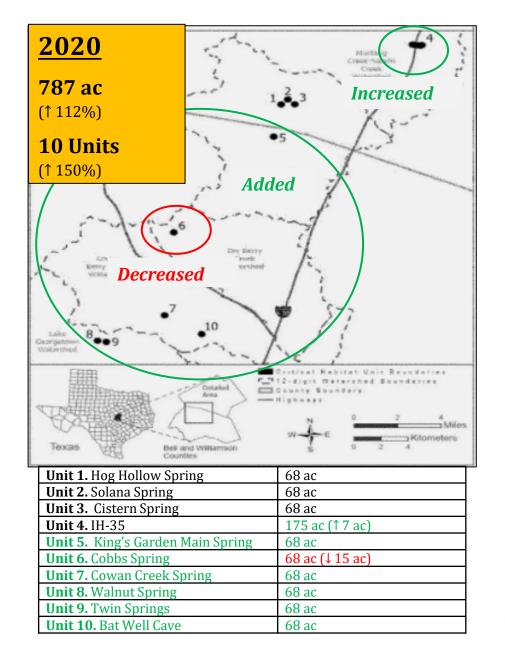


<u>Proposed</u> Critical Habitat



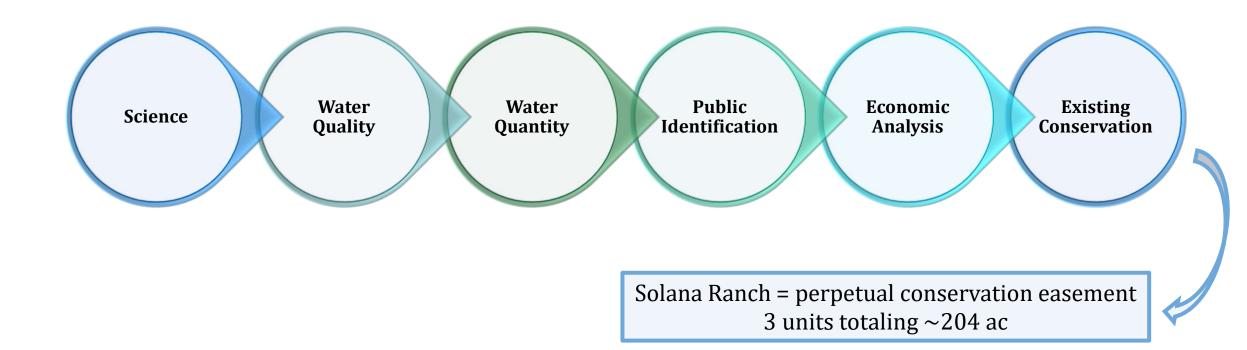
Unit 1. Hog Hollow Spring	68 ac
Unit 2. Solana Spring #1	68 ac
Unit 3. Cistern Spring	68 ac
Unit 4. IH-35	168 ac

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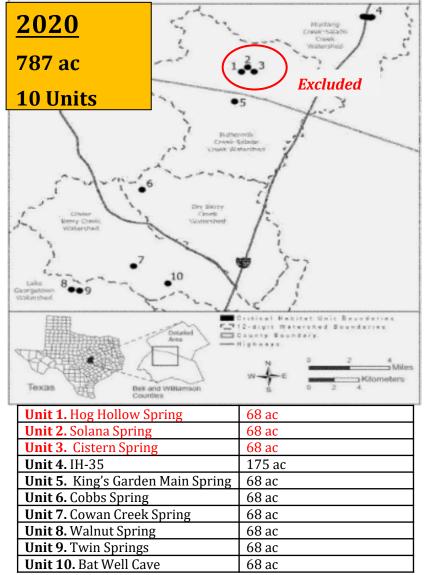


Public Comment Period

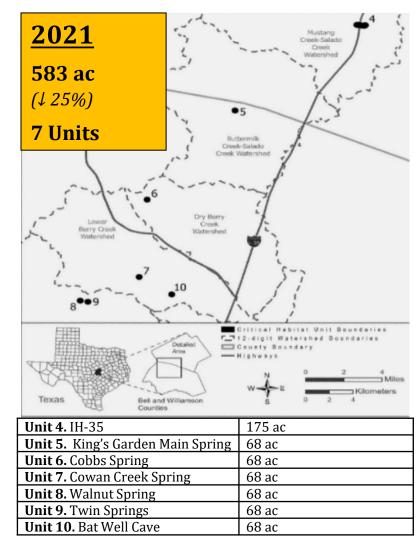




Final Critical Habitat



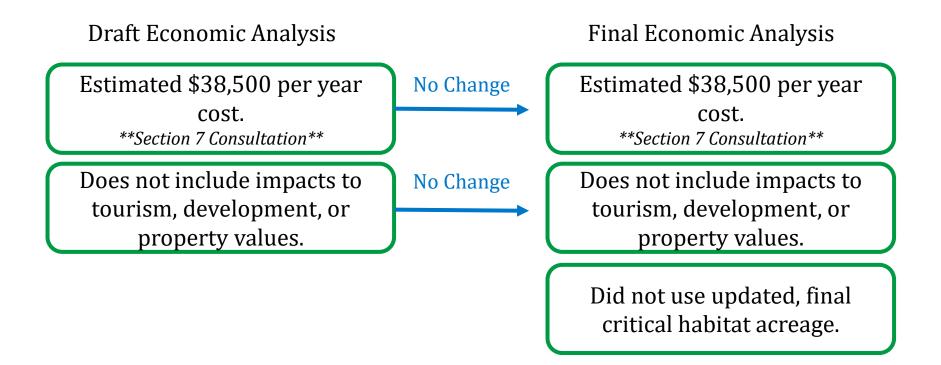
"Final rule" incorporates changes to our proposed rule **based** on comments *received*...we (Service) <u>exclude</u> three critical habitat units for the Salado salamander, totaling approximately 204 ac (Solana Ranch)."



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USFWS Economic Analysis



"Designation of critical habitat **may cause developers or landowners to perceive** that private lands will be subject to **use restrictions** or litigation from third parties, **resulting in cost**. **Data limitations** prevent the quantification of the possible incremental reduction in property values."

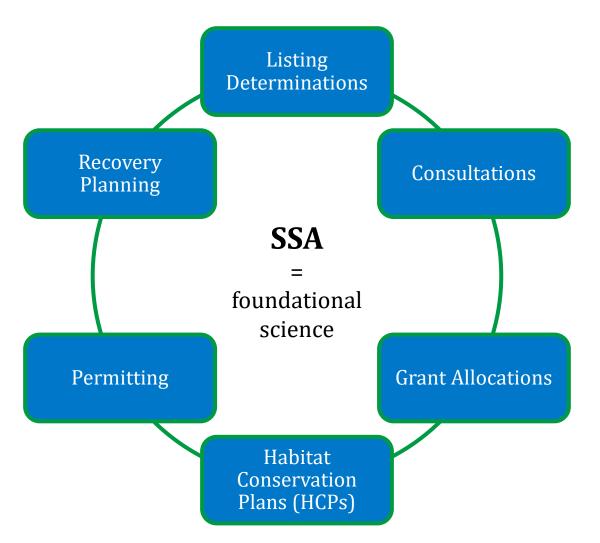








What is an SSA?

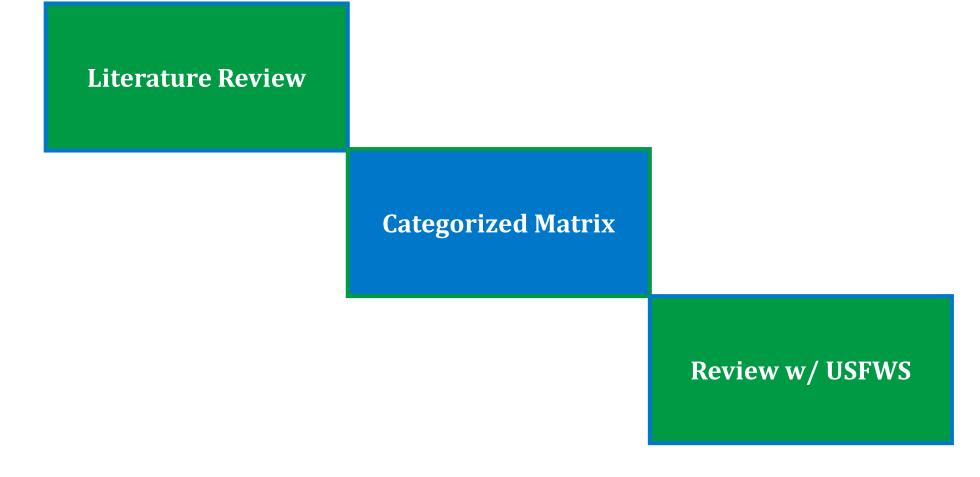




Salado salamander's SSA currently ongoing.

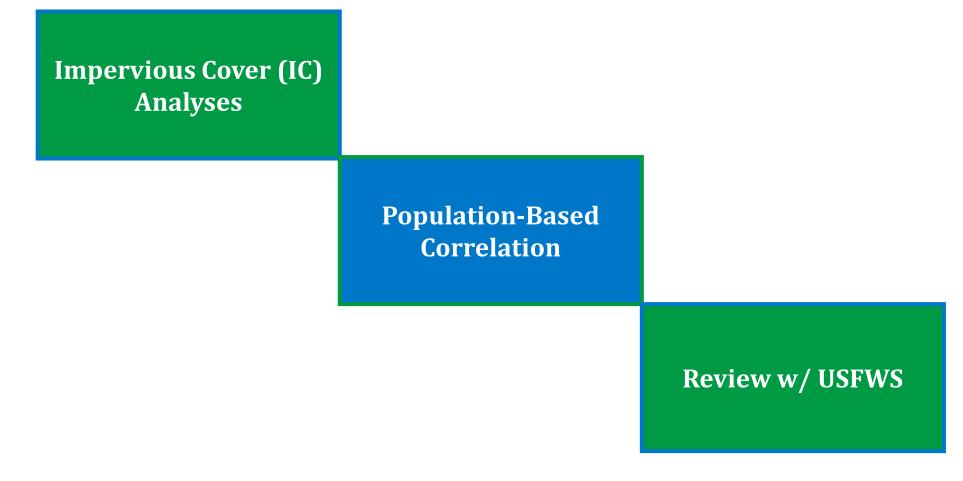


Salado Salamander SSA Stage 1 Species' Needs



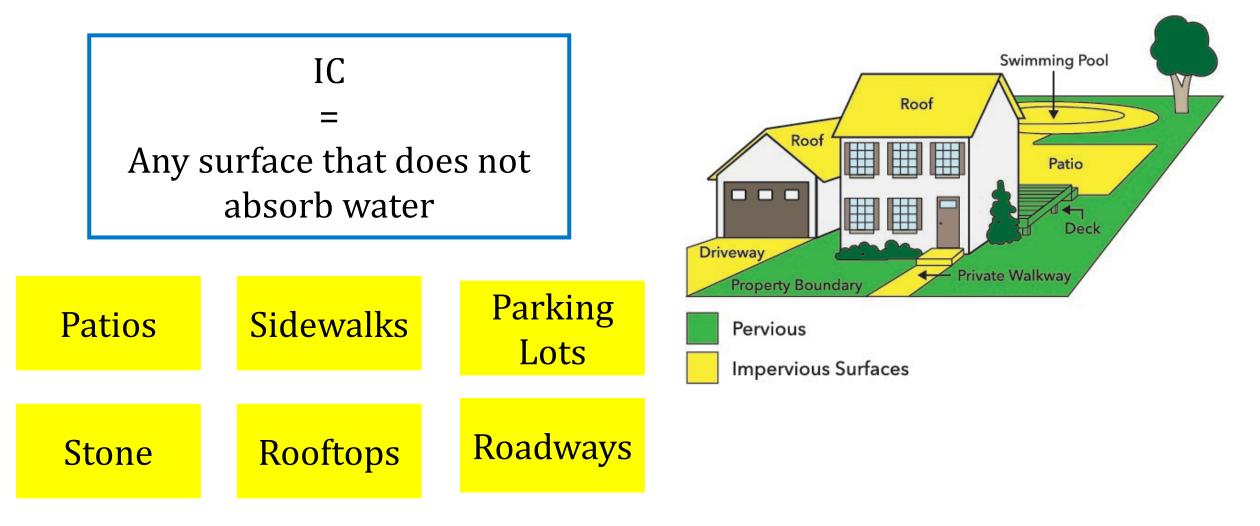


Salado Salamander SSA Stage 2





What is Impervious Cover?

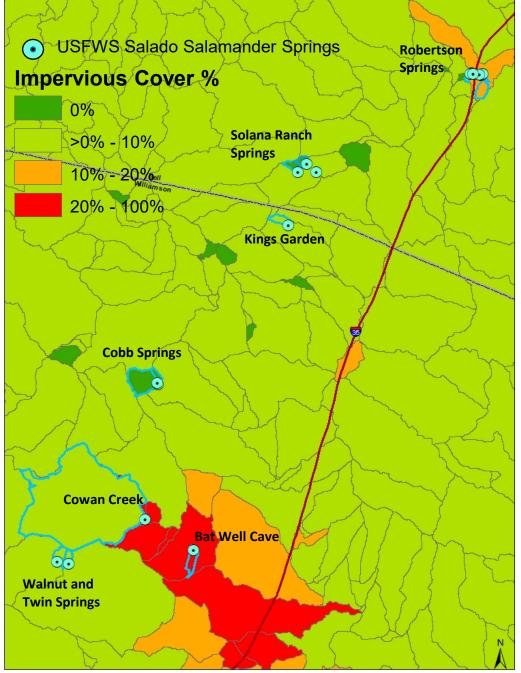




Bell and Williamson Counties Surface Watersheds

2019 iSAT Analysis

	Acres	2019 Percent
Watershed	Analyzed (ac)	Impervious (%)
Robertson Springs	36.2	0.1
Side Spring	0	0
Little Bubbly/ Big Boiling	2.3	62
Lazy Days Fish Farm	146.2	15.5
Anderson Spring	13.1	18
Hog Hollow	96.3	0
Solana Spring	74.6	0
Cistern Spring	2.3	1.2
Kings Garden	121.7	0.25
Cobb Well / Cobb Spring	461.8	0
Cowan Creek Spring	6,619.70	7.3
Bat Well Cave	134.7	34.3
Walnut Spring	147	4.2
Twin Spring	73.6	8



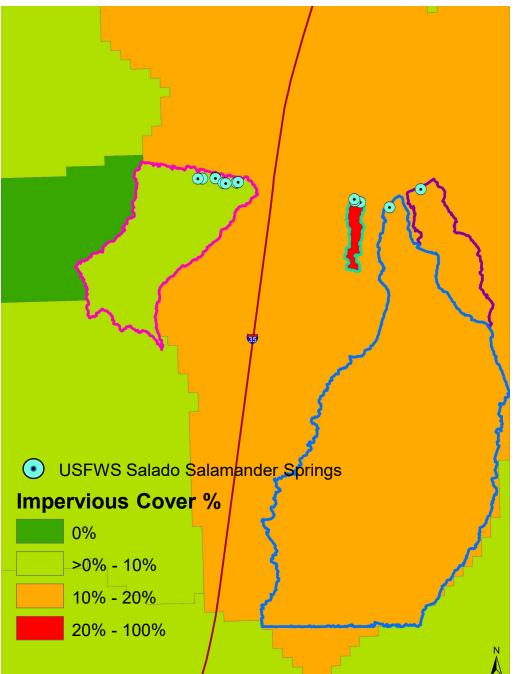
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Salado Springs Surface Watersheds

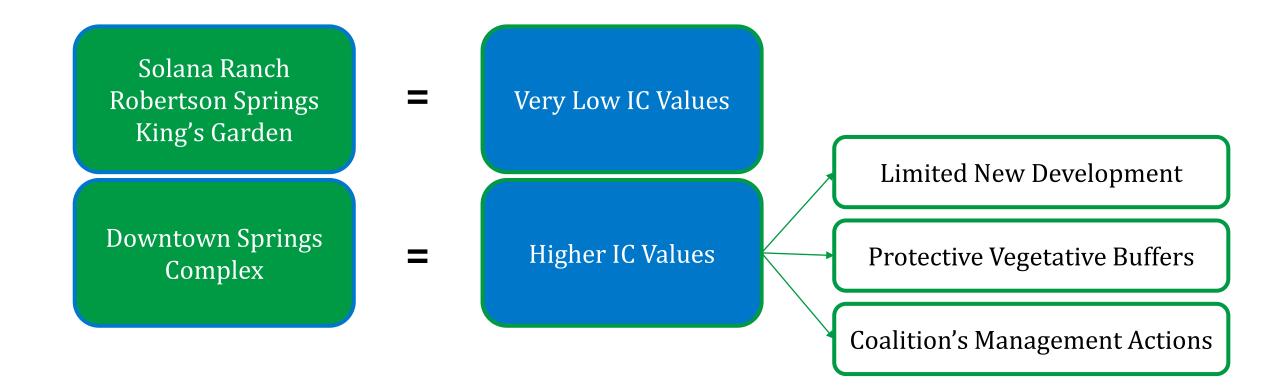
2019 iSAT Analysis

Water Catchment Area	% IC
Robertson Springs (36.3 acres)	>1%
Big Boiling Spring, Lil' Bubbly Spring	
(2.3 acres)	62 %
Lazy Days Spring (146.2 acres)	16 %
Anderson Spring (13.2 acres)	18 %



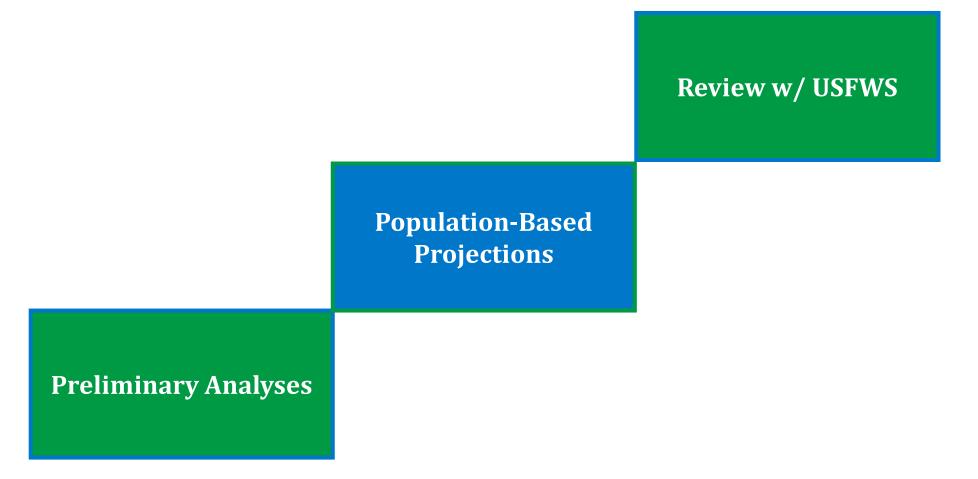


Overview of IC Analysis Results





Salado Salamander SSA Stage 3 Future Condition



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Conclusion





Concluding Thoughts

- NRS has been supporting the Coalition in the regulatory and non-regulatory processes regarding the Salado salamander in Bell County.
- It is important for the people of Bell County to be wellinformed and to have input into these processes.

Natural Resources Solutions, L.C.

Thank you.

November 17th, 2021