



California Department of Fish and Wildlife Upland Game Bird Account

1. **Project Title:** Upper Pine Creek Guzzler Renovation
2. **Amount Requested:** \$2,085.40
3. **Applicant Contact Information:** National Wild Turkey Federation, Tax ID# 57-0564993

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4. Introduction:

Mt. Laguna is located at the eastern edge of the Descanso Ranger District in the Cleveland National Forest. The Mt. Laguna area consists of dense stands of chaparral with limited pine forests at its peak, and an Engelmann oak forest at its base. The Mt. Laguna area hosts several upland game bird species including wild turkey, California quail, mourning dove, and band-tailed pigeons. With an average precipitation amount of 12.2 inches per year, water can become a limiting factor for the many wildlife species inhabiting its ranges, especially during the peak dry months of summer and into fall. This lack of water has also recently been compounded by the severe drought that California has been experiencing over the last 4 years, making it difficult for all wildlife species to survive.

A natural spring along Pine Creek Rd on Mt. Laguna was tapped into several decades ago, and a pipe was installed underneath the road that fed into two upright concrete troughs. This may have originally been done to supplement water for cattle grazing in the area. However, the fill pipe from the spring has since become disconnected and no longer feeds the troughs. Also, the current troughs pose severe danger to thirsty turkey poults, quail chicks, and rodent species by way of drowning since there is no way for them to escape if fallen into the troughs. The specific goals and objectives of this project are to provide a source of water during a horrific drought, that will in turn benefit upland game birds and upland game bird hunters.



The current concrete troughs that attempt to retain the spring water.



The extended fill pipe no longer serving its purpose.

5. Project Description:

The proposed project would renovate the guzzler by installing a new 500 gallon full-ramp guzzler with a float system by Rainmaker Wildlife Water Guzzlers and Escape Ramps. This product is made entirely out of LLDPE material for structural integrity and longevity. This material is also non-toxic and 100% recyclable. The float valve system includes a pvc/stainless steel float-valve, stainless steel chain and arm, and a poly float. This is their most beneficial model for upland game birds and is equipped with a full escape ramp designed to allow quail chicks, turkey poults, rodents, amphibians and other small wildlife a way to exit the guzzler after getting a drink. The new guzzler would be sunk into the ground adjacent to the concrete troughs to the point where the top of the guzzler is level with the surrounding substrate. The supply line will then be dug up, and replaced with new ¾" PVC and fitted with the necessary fittings from the developed spring to the guzzler. Surrounding the pipe in the trench will be a layer of sand to help prolong the longevity of an underground working system. The funds requested will be used to purchase the guzzler and necessary supplies for installation. USFS staff will be on hand to supply the tools and NWTF volunteers will be on hand for labor and skills involved with implementation. The remaining concrete troughs will be filled with rock for the safety of small local wildlife species to prevent mortality by drowning or starvation. NWTF Regional Biologist will be the acting project manager and will be responsible for ordering and purchasing the supplies, scheduling the work days with associated partners, and overall success of the project. Administration of the grant will be through NWTF headquarters.

Full-Ramp Wildlife Guzzler

Lid Dimensions: 96" x 64"

Ramp Texture
Raised Half Diamond

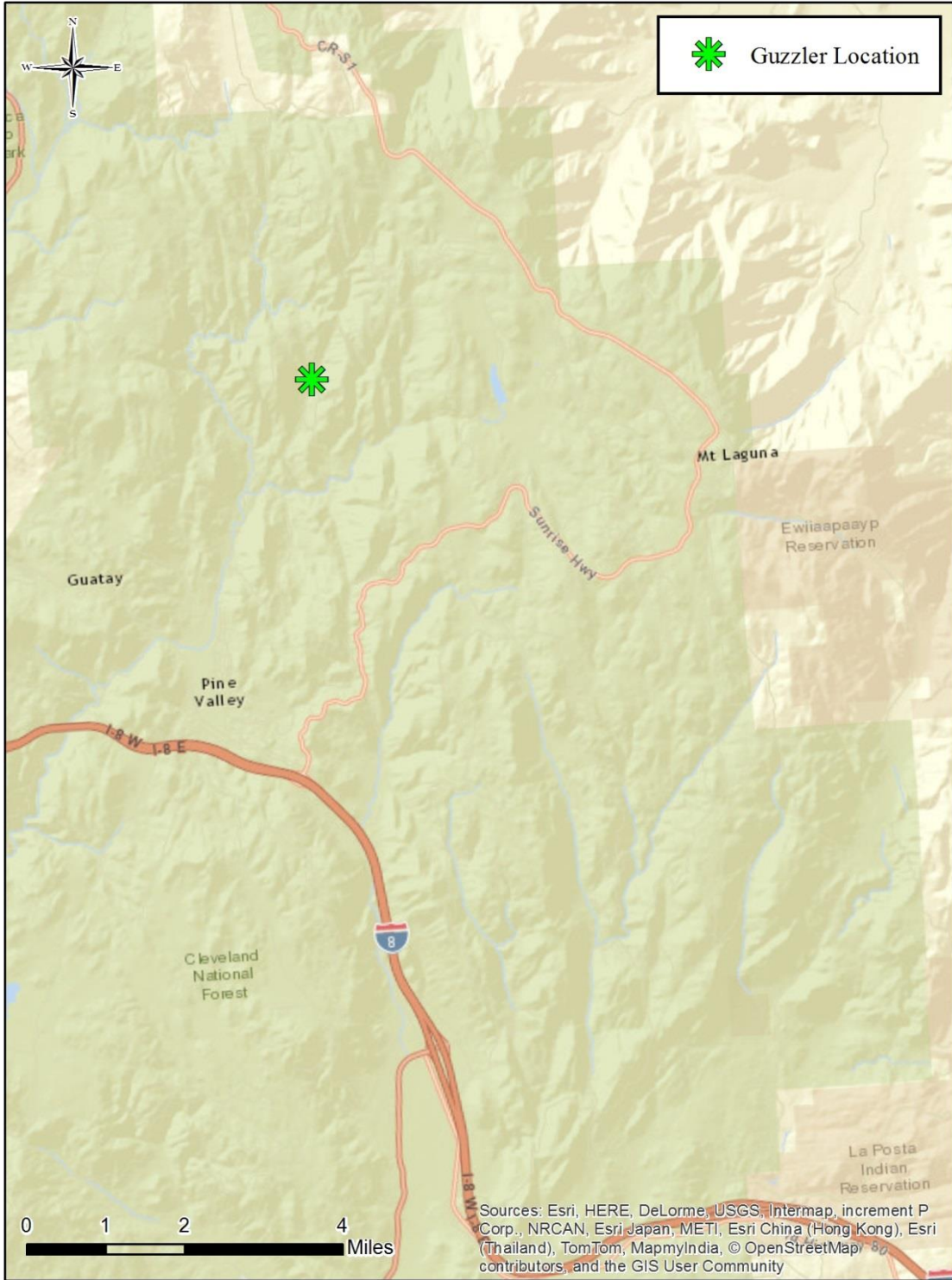
Base Dimensions: 93" x 77" x 90" x 2"
26 Degree Slope

Base Dimensions: 62" x 46" x 57" x 28"

Revised: Jan 2014

| | | |
|--|---|---|
| | <p>Rainmaker Products LLC PO Box 31697, Bellingham WA 98228 360-739-6361 tim@RainmakerWildlife.com www.RainmakerWildlife.com</p> | <p>Model: Full Ramp Wildlife Water Guzzler Material: LLDPE Polyethylene. UV Inhibitors Added Capacity: 500 Gallon Tank Capacity Weight: 200 lbs (Tank & Lid) Fittings: Fittings No Charge Upon Request</p> |
| <p>Rainmaker Guzzler is designed to be installed as an in-ground system. A separate rain collection roof system should be added to fill the guzzler reservoir tank. The collector size is dependant on your rain zone. 64-150 sq ft is common. Please consult your local NRCS or Fish & Wildlife for requirements. Collector designs at www.RainmakerWildlife.com</p> | | |

Full specifications on the 500 gallon full-ramp wildlife guzzler from Rainmamker.



Upper Pine Creek Guzzler Renovation

Cleveland National Forest



6. Expected Benefits:

This water source will benefit many upland wildlife species within a 500 acre radius where moisture is severely limiting. Upland game birds such as quail and wild turkeys rely heavily on water sources during the late summer and fall in arid southern California. The addition of a new water source could not only benefit their existence, but also help to expand the distribution of local populations further up Mt. Laguna. This range expansion would in turn benefit upland game bird hunters of the CNF by providing greater opportunity for successful hunting. A more localized water source would also benefit other game species that occupy Mt. Laguna, such as the resident herd of Southern California Mule Deer. Deer hunting on Mt. Laguna is open to archery hunting only, and can be a popular area for southern California deer hunters. The installation of this guzzler could help to expand the mule deer range into a water-limiting environment that otherwise contains sufficient habitat. This would then benefit California deer hunters by providing expanded opportunity throughout the season.

7. Itemized Budget:

| Upland Game Stamp Proposal | | | | | | | |
|---|--|----------------------------------|--------------|---|------------------|---------------------|--------------------------|
| | | Location | | | | Project Cost | |
| LINE ITEM BUDGET FOR: | Upper Pine Creek Guzzler Renovation | Cleveland National Forest | | | | | |
| PERSONNEL (GRANTEE STAFF): | | | | | | | |
| | Staff Title | Rate * | | | Unit | | |
| | Regional Biologist | \$50.00 | per hour | @ | 10 | | \$500.00 |
| | Mileage | \$0.575 | per mile | @ | 400 | | \$230.00 |
| TOTAL PERSONNEL EXPENSES: | | | | | | | <u>\$730.00</u> |
| OPERATING EXPENSE: | | | | | | | |
| MATERIALS: | Work/Item Description | Count | Units | | Cost/Unit | | |
| | Guzzler | 1 | guzzler | @ | \$900.00 | | \$900.00 |
| | Shipping | 1 | ground | @ | \$150.00 | | \$150.00 |
| | 3/4" PVC Pipe | 120 | feet | @ | \$0.22 | per foot | \$26.40 |
| | PVC Fittings | 30 | fittings | @ | \$0.38 | per fitting | \$11.40 |
| | PVC Cement | 1 | pack | @ | \$8.27 | per pack | \$8.27 |
| | Sand | 20 | bags | @ | \$3.15 | per bag | \$63.00 |
| | Paint | 3 | cans | @ | \$6.00 | per can | \$18.00 |
| TOTAL OPERATING EXPENSES: | | | | | | | <u>\$1,177.07</u> |
| PROJECT COST: | | | | | | | <u>\$1,907.07</u> |
| PARTNERSHIP CONTRIBUTIONS | | | | | | | |
| | - | - | - | - | - | - | - |
| | <i>NWTF Volunteers</i> | | | | <i>Labor</i> | <i>In-Kind</i> | - |
| | <i>Cleveland National Forest</i> | | | | <i>Tools</i> | <i>In-Kind</i> | - |
| SUBTOTAL PERSONNEL OPERATING EXPENSES: | | | | | | | |
| | Indirect costs on materials purchase only | | | | | 15.15% | \$178.33 |
| TOTAL UPLAND STAMP GRANT REQUEST | | | | | | - | <u>\$2,085.40</u> |

* Benefits included in rate

