Ecological Sciences, Inc., "Results of Focused Arroyo Toad Surveys, Round Mountain Site, Santa Clarita, California" (August 25, 2003; 2003E)

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August 25, 2003

Mr. Mark Subbotin, Senior Vice President Newhall Ranch Company 23823 Valencia Boulevard Valencia, CA 91355

# SUBJECT: Results of Focused Arroyo Toad Surveys, Round Mountain Site, Santa Clarita, California

Dear Mr. Subbotin:

This letter report summarizes methodology and findings of focused protocol surveys for the federally listed endangered arroyo toad [*Bufo (microscaphus) californicus*-herein AT] conducted by Ecological Sciences, Inc. The surveys were conducted to determine the presence/absence of the AT within the subject study area. All surveys followed federal U.S. Fish and Wildlife Service (Service) protocol (2001).

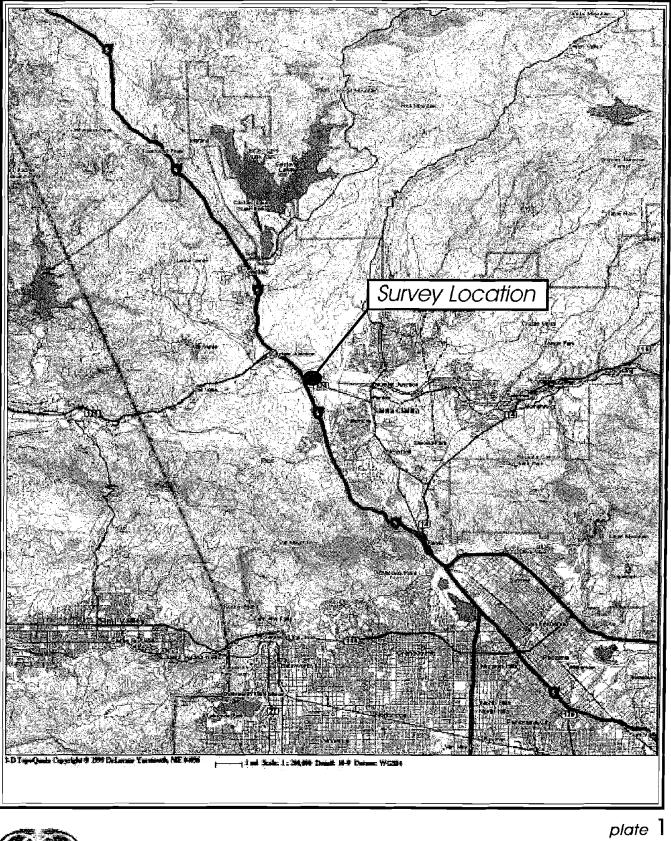
#### Introduction

Surveys were conducted in potentially suitable habitat in a portion of the Santa Clara River ( $\pm$ 3,000 feet in length-herein Round Mountain Site). The survey area is generally located from Interstate 5 upstream to several large overhead utility lines. Regional and site vicinity survey location maps are included as *Plate 1* and *Plate 2*, respectively. The survey area is located on the Newhall, California U.S. Geological Survey (USGS) 7.5-minute quadrangle map.

### General AT Ecology

The AT was listed as an endangered species by the Service on December 16, 1994 and is also considered a California species of special concern. A federal Recovery Plan was prepared in 1999 and critical habitat was defined in February 2001. This species is restricted to the coastal slopes of southern California and northern Baja California, Mexico, except for one small, isolated population in the Mojave River. The AT averages 5 to 8 cm in length, and has a greenish-gray or tan coloration. It is restricted to rivers with shallow, gravelly pools adjacent to sandy terraces. Eggs are deposited in shallow pools with sand or pea gravel substrate overlain with flocculent silt. These pools have minimal current and little or no emergent vegetation. Juveniles and adults forage for insects on sandy terraces with nearly complete coverage of cottonwoods, oaks, and willows (USFWS 1994).

Many areas that may have historically contained suitable breeding habitat for arroyo toad have been degraded by dam and flood control construction, off-road recreation, urbanization, mining, and introduced predators (USFWS 1999). This species is currently found in relatively small, isolated populations. Most remaining populations of arroyo toad occur on privately owned lands. Less than 50 percent of the known extant populations of arroyo toad occur on the Los Padres, San Bernardino, and Cleveland National Forests (USFWS 1994).





Regional Site Location Round Mountain Site

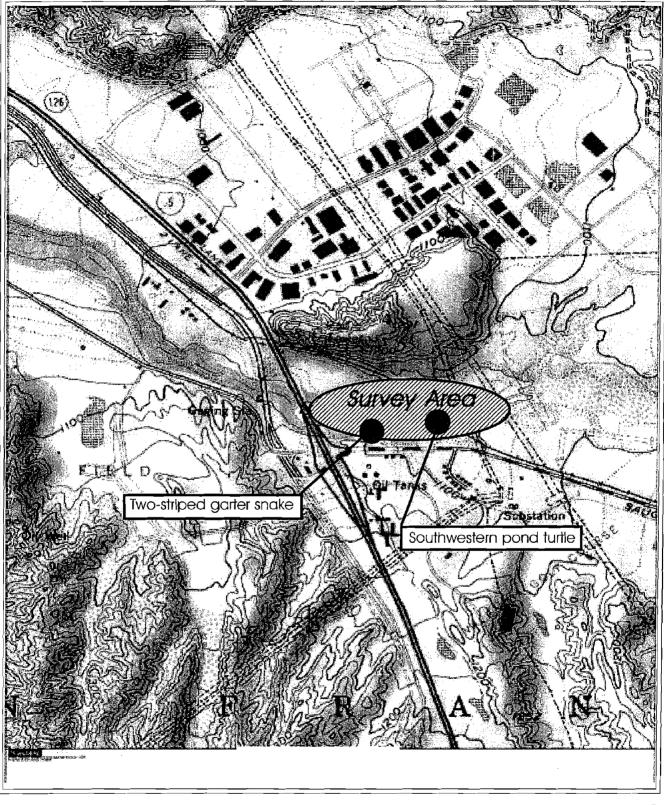




plate 2

August 2003

Site Vicinity Round Mountain Site

#### AT Critical Habitat

USFWS had identified 22 critical habitat units for the recovery of the arroyo toad. The unit nearest to the subject study area was Unit 6, the Upper Santa Clara River Basin. However, the USFWS final critical habitat designation issued for the arroyo toad (February 2001) was vacated on October 30, 2002, by the United States District Court for the District of Columbia [*Building Industry Legal Defense Foundation v. Norton*, 231 F.Supp.2d 100 (D.D.C. 2002)].

#### Primary Constituent Elements

Criteria used by the Service to select critical habitat includes evaluation of an area to determine the presence of 'primary constituent elements,' as defined at 50 CFG 424.12(b) (USFWS 2001a). These elements include physical and biological features that are essential to the conservation of the species, and that may require special management and protection (USFWS 2001a).

Primary constituent elements for the arroyo toad include aquatic breeding habitats and non-breeding upland habitats. These elements include: A hydrologic regime that supplies sufficient flowing water of suitable quality and sufficient quantity to sustain eggs, tadpoles, metamorphosing juveniles, and adult breeding toads; Low-gradient stream segments (typically less than 4 percent) with sandy or fine gravel substrates which support the formation of shallow pools and sparsely vegetated sand and gravel bars for breeding and rearing of tadpoles and juveniles; A natural flooding regime or one sufficiently corresponding to a natural regime that will periodically scour riparian vegetation, rework stream channels and terraces, and redistribute sands and sediments, such that adequate numbers and sizes of breeding pools and sufficient terrace habitats with appropriate vegetation are maintained; Upland habitats (particularly alluvial streamside terraces and adjacent valley bottomlands that include areas of loose soil and dependable subsurface moisture where toads can burrow underground and avoid desiccation) of sufficient width and quality to provide foraging and living areas for subadult and adult arroyo toads; Few or no nonnative species that prey upon or compete with arroyo toads, or degrade their habitat; No man-made barriers that completely or substantially impede migration to over-wintering sites, dispersal between populations, or recolonization of areas that contain suitable habitat; and Limited human-related disturbance.

# Methodology

Guidelines for the AT do not presently require a permit under section 10 (a) (1) (A) of the Endangered Species Act of 1973, as amended. However, during the course of surveys conducted for AT, identification, and therefore direct examination, of AT juveniles and tadpoles may be necessary during spring/summer surveys of aquatic habitats. Accordingly, all field surveys for AT were conducted pursuant to the most recent Service guidelines under the authority of federal section 10(a) permit number TE-808242-4 issued to Scott Cameron, Principal Biologist of Ecological Sciences, Inc.

At least six (6) surveys were conducted within the subject study areas, with at least seven (7) days between each survey. Additionally, AT surveys were conducted both during daylight hours and at night between one hour after dusk and midnight. Each day and nighttime AT survey was conducted within the same 24-hour period. Surveys were conducted between late March and early June, with at least one survey conducted per month during April, May, and June per protocol. Daytime surveys included an assessment of arroyo toad habitat suitability as well as searches for sign of AT presence (e.g., eggs, larvae, or juveniles). Extreme caution was taken to avoid inadvertent disturbances to AT potentially presence within adjacent stream areas.

All nighttime surveys were conducted when air temperatures were at least 55 degrees Fahrenheit. Periods of full moon phases were generally avoided. Surveys were conducted each night from about 8:30 p.m. to approximately 12:00 a.m. Weather conditions were generally calm and clear throughout the survey effort with just a few days of relatively overcast conditions. The site was surveyed by walking slowly and carefully along stream banks or within the stream itself when necessary. As with the daytime surveys, every precaution was taken not to disturb or create silt deposits within potential breeding pools,



and care was taken not to disturb or injure potentially occurring AT adults, juveniles, tadpoles, or egg masses. Periodic stops were taken to listen for calling AT at 15-minute intervals or as appropriate depending upon individual site conditions. Surveys were conducted as quietly as possible to maximize the potential to hear calling AT. Handheld flashlights and headlamps were used to visually locate AT within potential breeding pools and along stream banks.

Surveys were initiated on April 11 and completed on June 21, 2003 as follows: Survey One (April 11); Survey Two (April 18); Survey Three (May 3); Survey Four (May 15); Survey Five (June 4); and Survey Six (June 21).

# **Existing Study Area Conditions**

The Round Mountain survey area is generally characterized by several braided channels with continuous water flow. The primary source of flows in this portion of the River is from a water reclamation plant. Some daily fluctuations of volume and velocity produced a few side channels that were ephemeral in nature. This area of the River supports willows (*Salix* spp.), mule fat (*Baccharis salicifolia*), cottonwood (*Populus fremonti*), tamarisk (*Tamarix* sp.), and giant reed (*Arundo donax*). Braided, open low-flow channels are characteristic of the eastern portion (upstream portion) of the survey area, indicative of a sufficiently low gradient to support shallow pools, sandbars, and sparsely vegetated terraces. These channels varied from about 20 feet across to less than two feet. Nearly all of the channels were less than 12-inches deep. The River in the western portion of the survey area (downstream portion near I-5 bridge) occurs more often as a single narrower channel with flow rates that often exceed those conducive to breeding AT. The stream bottom throughout the reach is characterized as sandy to gravelly with little accumulated silt. There are sufficient upland terrace habitats in the survey area to support AT. Terraces consist of sandy to gravelly soils with varying densities of vegetation. The stream channel width ranges from approximately 200 feet to ±700 feet between banks. Extensive ORV usage was evident.

# Results

No direct observations or vocalizations of AT were recorded during the focused survey effort. In addition, no egg masses or other sign of AT were recorded within the subject survey areas. Common amphibian species recorded during the focused survey effort included adults, juveniles, and/or tadpoles of the western toad (*Bufo boreas*), Pacific chorus frog (*Pseudacris regilla*), and California chorus frog (*Pseudacris cadaverina*) where lower velocity flows were present. Sensitive aquatic reptile species recorded included the two-striped garter snake (*Thamnophis hammondii*) and western pond turtle (*Clemmys marmorata pallida*). Plate 2 illustrates the locations where these special-status species were observed. The nearest recorded AT observation known to Ecological Sciences is located  $\pm 0.5$ -mile upstream of the subject study area near the confluence of the River and San Francisquito Creek in May 2001.

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If you have any questions regarding results presented in this report, please don't hesitate to contact us at the letterhead address.

Sincerely,

Ecological Sciences, Inc.

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Scott D. Cameron Principal Biologist



Focused Survey Report for Arroyo Toad TE-808242-4 August 25, 2003

# References

Impact Sciences, Inc. 2001. Results of Focused Surveys for Arroyo Toad and Special-Status Aquatic Reptiles and Amphibians within the Natural River Management Plan Area Valencia, California. September 19.

U.S. Fish and Wildlife Service, 1994. *Determination of Endangered Status for the Arroyo Southwestern Toad; Final Rule.* 50 CFR Part 17, RIN 1018-AB97.

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