Biological and Botanical Services

Desert Tortoise Inventory Survey of the Proposed Duke Energy Searchlight Wind Farm

Prepared for:

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mcl	midline carapace length
SNEI	Southern Nevada Environmental, Inc.
USFWS	United States Fish and Wildlife Service

REPORT NUMBER:

NV-

PROJECT NAME:

Pre-Project Desert Tortoise Presence/Absence Surveys for the Proposed Duke Energy Searchlight Wind Farm

INTRODUCTION:

Tetra Tech EC, Inc. contracted Southern Nevada Environmental, Inc. (SNEI) to perform pre-project baseline presence/absence surveys for the federally threatened Mojave desert tortoise (*Gopherus agassizii*) on the proposed Searchlight Wind Project (hereafter Project) located in Clark County, NV east of the town of Searchlight. SNEI's objectives were to determine if desert tortoise inhabited the Project site and, if so, the abundance and distribution of desert tortoises within the proposed Project site and (as per the *Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats* for the 2010 field season) (USFWS 2010a).

DESERT TORTOISE BACKGROUND:

The desert tortoise occupies a wide variety of desert habitats across its range. The Mojave Desert tortoise occurs in creosote bush (*Larrea tridentata*), burrobush (*Ambrosia dumosa*), Joshua tree (*Yucca brevifolia*), and shadscale (*Atriplex confertifolia*) vegetation types. The tortoise prefers sandy and gravelly soils of desert valleys and alluvial fans, and typically ranges in elevation from the desert valley to 3,500 feet in mountain washes and steep-sided canyons (USFWS 2010b). The Mojave Desert tortoise is most active during the spring months. Tortoises begin to emerge from hibernation on warm days in early March to late April. Tortoise activity remains high through mid-May and then drops off rapidly by early June. Aestivation (semi-hibernation) may occur during the heat of summer; however, tortoises generally are active in early morning and late afternoon during this period. Occurrence of monsoonal rains in late summer may result in increased tortoise activity. There may be some low level tortoise activity during fall with hibernation commencing in mid- to late November.

Breeding in tortoises occurs during April and May. During breeding, the male mounts the female and stands on his hind legs. The female slowly turns as breeding proceeds. This activity results in a doughnut-shaped pattern in the sand, which is referred to as the courtship ring. One to two clutches of eggs are laid during late spring and early summer. Eggs are white, porcelain in texture, and spherical. The female constructs an inverted funnel-shaped nest, usually in the mouth of a burrow or pallet, and lays four to seven eggs in the depression. The nest is then filled with dirt. Eggs hatch from mid-August to mid-October, and the hatchlings are about 40 mm long (USFWS 2010b).

Tortoises are herbivores and prefer to feed on succulent forbs (weedy, broad-leafed plants) and grasses. In the Mojave Desert, forbs are most plentiful during March and April. Flowers are often selected over other portions of the plant for eating. As the forbs dry and complete the life cycle, tortoises make increasing use of grasses and, to some extent, shrubs and cacti. During drought years with no annual vegetation growth, tortoises will feed on dried forbs and grasses left over from the previous year. Tortoises do drink water when available and construct shallow depressions in the desert pavement to gather water during brief but intense showers.

Tortoises are semi-fossorial, spending over 95 percent of their lives underground. Tortoises construct their own burrows and pallets. Burrows are long tunnels often over 6 feet long. They are half-moon shaped and generally are a snug fit. Pallets are shorter, usually less than 2 feet long (USFWS 2010b). Burrows and pallets have a low entrance angle and are frequently placed at the base of a creosote bush or on a hillside or the bank of a wash. Caliche caves are often used as shelter by tortoises and have been reported as communal hibernation sites. Burrows and pallets provide a cool, humid, shaded environment for tortoises during hot weather and a relatively warm environment for hibernation during winter. During spring, while foraging, tortoises will seek temporary shade under bushes and rocks in order to regulate their body temperature.

SITE DESCRIPTION:

Physical Description:

The proposed wind farm site is located in the Mojave Desert along a bajada, or alluvial fan, which extends north, south, and east from the town of Searchlight, Nevada. Topographic dimensions of the survey area vary greatly with flats, washes, valleys, and steep mountains/hills. Soil largely consists of sandy, stony loam with abundant rock/boulder deposition.

Biological Description:

Vegetation communities observed within the survey area were categorized into three main groups: creosote scrub, black brush scrub, and Joshua tree forest.

The most abundant vegetative communities in the survey area are creosote scrub and black brush scrub. Observed flora included creosote bush (*Larrea tridentata*), white bursage (*Ambrosia dumosa*), Mojave yucca (*Yucca schidigera*), Joshua tree (*Yucca brevifolia*), Mormon tea (*Ephedra* sp.), cheesebush (*Hymenoclea salsola*), California buckwheat (*Eriogonum fasciculatum*), globe mallow *(Sphaeralcea ambigua)*, desert marigold *(Baileya multiradiata)*, common plantain (*Plantago ovate),* indigo bush (*Psorothmnus aborescens*), beavertail cactus (*Opuntia basilaris*), silver cholla (*Cylindropuntia echinocarpa*), buckhorn cholla (*Cylindropuntia acanthocarpa*), teddy-bear cholla (*Cylindropuntia bigelovii*), pencil cholla (*Cylindropuntia ramosissima*), catclaw acacia (*Acacia greggii*), cheat grass (*Bromus tectorum*), and red brome (*Bromus rubens*).

Observed fauna included Mojave desert tortoise (*Gopherus agassizii*), golden eagle (*Aquila chrysaetos*), bighorn sheep (*Ovis canadensis*), chuckwalla (*Sauromalus ater*), desert burrowing owl (*Athene cunicularia*), red-tailed hawk (*Buteo jamacensis*), American kestrel (*Falco sparverius*), common raven (*Corvus corax*), turkey vulture (*Cathartes aura*), lesser nighthawk (*Chordeiles acutipennis*), Le Conte's thrasher (*Toxostoma lecontei*), ash-throated flycatcher (*Myiachus cinerascens*), black-throated sparrow (*Amphispiza bilineata*), cactus wren (*Campylorhynchus brunneicapillus*), white-tailed antelope ground squirrel (*Ammospermophilus leucurus*), black-tailed jackrabbit (*Lepus californicus),* desert cottontail rabbit (*Sylvilagus audubonii)*, pack rat *(Neotoma lepida)*, side-blotched lizard (*Uta stansburiana*), Great Basin whiptail (*Aspidoscelis tigris*), zebra-tailed lizard (*Callisaurus draconoides*), long-nosed leopard lizard (*Gambelia wislizenii*), desert spiny lizard (*Sceloporus magister*), desert horned lizard (*Phrynosoma platyrhinos*), desert iguana (*Dipsosaurus dorsalis*), western ground snake (*Sonara semiannulata*), Mojave rattlesnake (*Crotalus scutulatus*), speckled rattlesnake (*Crotalus mitchelii*), western patch nosed snake (*Salvadora hexalepis*), and shovel nosed snake (*Chionactis occipitalis*).

METHODOLOGY:

SNEI conducted the pre-project biological survey from April 4, 2011, to May 16, 2011. The survey time period was in accordance with U.S. Fish and Wildlife Service (USFWS) desert tortoise active season (April to May and September to October). Sampling within these time periods minimizes the probability of the temperature rising above 40 degrees Celsius at which point the desert tortoise becomes inactive (Zimmerman et al. 1994; Frielich et al. 2000; Walde et al. 2003; Nussear and Tracy et al. 2007; Inman et al. 2008). The air temperature measurements were taken 5 cm above the ground, in full sun but in the shade of the observer (USFWS 2010a).

To account for potential construction impacts and indirect impacts from project development and operation, all project facilities (e.g., wind turbine locations, access roads, collector lines, and substation) were buffered by 200 feet to create a 400-foot wide action area. In some areas, intersecting facilities created isolated areas of habitat that would not have been included in the survey. These isolated areas were included in the action area. The action area totals 3,612 acres (14.6 km^2). According to USFWS's *Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats* (2010), the proposed action area is within the known range of the desert tortoise. The action area of the project encompasses 3,612 acres (14.6 km^2), which is above the 4.5 km^2 thresholds found to allow probabilistic sampling according to Table 2 of the *Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats*. This, coupled with the linear nature of the survey area requires that 100 percent coverage methods be implemented.

Two teams (led by USFWS authorized biologists Matthew Martin and Drew Scott) of 3 biologists each conducted searches along betl transects spaced 10-meters apart within the interior of the survey corridor. Biologists walked transects, visually covering 5 meters per

biologist to either side of the transect, looking for tortoise and tortoise sign (e.g., scat, carcasses, burrows, courtship rings, bones, or eggshell fragments) using the *USFWS 100 Percent Coverage Method Protocol* (2010). Additional belt transects were surveyed at 200, 400, and 600 feet around the perimeter of the survey corridor (exterior transects) for live tortoise and tortoise sign. Biologists used Garmin GPS units while walking the transect to insure accuracy of coverage. Digital cameras were also used in order to document all observations of tortoise and tortoise sign. When a tortoise was encountered the survey team marked their stop point and processed the tortoise. The tortoises were visually inspected for signs of injury, illness and abnormalities. Every tortoise is sexed, has its mid line carapace measurement is taken, and has its location taken down as a waypoint. When tortoise sign is observed it is placed into one of five categories. Tortoise scat is broken into Class 1: Wet (not from rain or dew) or freshly dried; obvious odor. Class 2: Dried with glaze; some color; dark brown. Class 3: Dried; no glaze or odor; bleaching (light brown); tightly packed. Class 4: Dried; light brown to pale yellow, loose material. Class 5: Bleached or consisting of only plant fiber. Tortoise carcasses are broken into Class 1: Fresh or putrid. Class 2: Normal color; scutes adhere to bone. Class 3: Scutes peeling off bone. Class 4: Shell bone is falling apart; growth rings on scutes peeling. Class 5: Disarticulated and scattered. And finally, Burrows are broken into Class 1: Currently active with tortoise or recent tortoise sign. Class 2: Good condition, definitely tortoise; no recent sign. Class 3: Deteriorated condition; definitely tortoise. Class 4: Deteriorated condition; possibly tortoise. Class 5: Good condition, possibly tortoise. All data were recorded with a Trimble Geo XH 2008 Global Positioning System and organized into tables (see Appendix A: Maps, Appendix B: Tortoise Sign, Tables 1-5, and Appendix C: Photographs).

SURVEY RESULTS:

A total of 122 tortoises were found within the proposed wind farm area (95 in the action area, 19 in the exterior belt transects, 8 incidentals). Other observed and documented desert tortoise sign included 240 pieces of scat, 95 carcasses, 750 tortoise burrows, and 22 pieces of miscellaneous sign (1 courtship ring, 2 egg shell fragments, 19 bone/scute fragments; Appendix A: Maps and appendix B: Tortoise Sign Tables 1-5).

CALCULATIONS:

The following calculations, with a 95 percent confidence interval, were used to determine the estimated abundance of adult tortoises within the project area. According to the USFWS, confidence intervals are used to indicate the reliability of an estimate. The interval gives an estimated range of values, calculated from a set of sample data at the specified rate (e.g., 95 percent). A wider confidence interval indicates that less certainty is associated with the estimate (USFWS 2010a). The USFWS takes into account the fact that not all tortoises within the action area are seen by the surveyor. The following

equation accounts for tortoises that are below ground at the time of surveys and for above-ground tortoises that are cryptic and may be missed; these tortoises should be included to estimate the abundance of tortoises within the action area for both 100 percent coverage and probabilistic sampling (USFWS 2010a).

$$\hat{N} = \left[\frac{(n)}{(P_a P_d)}\right]\left[\frac{(A)}{(a)}\right]$$

where $\hat{N}$ = estimated abundance within the entire proposed lateral site, n = number of adult tortoises that were observed above ground during the pre-project baseline survey, P_a = probability that a tortoise is above ground, P_d = probability of detecting a tortoise if it is above ground, A = action area, and a = size of actual area surveyed. For 100 percent coverage surveys, A/a = 1 (USFWS 2010a).

In order to determine P_a we must determine the previous winter's rainfall (USFWS 2010a). According to Weather Underground (www.wunderground.com), the Searchlight, Nevada, area (weather station located in Bullhead City, Arizona) had received approximately 3.38 inches (85.85 mm) of rain. This rainfall occurred in the period preceding the survey (October through March), which exceeded the approximately 1.5-inch (40 mm) mark in Table 1 (USFWS 2010a). Therefore, a value of 0.80 is used for P_a in the abundance estimation.

Table 1
Probability That a Desert Tortoise Is Above Ground (P_a) Relative to the Previous Winter's Rainfall (October 2010 through March 2011)

Previous Winter Rain	Probability[1]	Variance[2]
<40 mm (~1.5 inches)	0.64	0.08
>40 mm (~1.5 inches)	0.80	0.05

[1] (P_a)
[2] (P_d)

The probability of detecting a tortoise above ground is a fixed number determined by surveyors in the USFWS range-wide monitoring program that have undergone training on established transects with artificial tortoises. Trained surveyors detected an average of approximately 63 percent of model tortoises that were within 5 meters of each side of the transect center line (USFWS 2010a). Therefore, a value of 0.63 is used for P_d in the abundance estimation.

Although 122 tortoises total were observed and documented during the survey, the USFWS only takes into account adult tortoises above 160 midline carapace length (mcl); therefore, 60 tortoises are used for n in the abundance estimation.

For 100 percent coverage surveys, the size of the proposed action area (A = 3,612 acres [14.6 km^2]) and the actual area to be surveyed (a = 3,612 acres [14.6 km^2]) are the same. Therefore, a value of 1.0 is used for $\frac{(A)}{(a)}$ in the abundance estimation.

The estimated abundance of adult desert tortoises within the proposed lateral study area is solved by plugging the above values into the equation:

$$\hat{\mathrm{N}} = \left[\frac{(\mathrm{n})}{(\mathrm{P}_a)(\mathrm{P}_\mathrm{d})}\right]\left[\frac{(\mathrm{A})}{(a)}\right]; \text{ therefore } \hat{N} = \left[\frac{(60)}{(0.80)(0.63)}\right]\left[\frac{1}{1}\right] \text{ or 119 tortoises.}$$

To estimate the density in the proposed lateral study area, the following formulas are employed (USFWS 2010a):

$$\text{Density} = \frac{(\hat{N})}{(A)}.$$

We get

$$\hat{D} = \frac{(119)}{3612 acres(14.6 \mathrm{km}^2)}, \text{ or 0.03 tortoise per acre (8.2 tortoises per km}^2\text{).}$$

To calculate the 95 percent confidence interval for our abundance estimate, the following formulas are employed (USFWS 2010a):

$$\hat{\mathrm{var}}(n) = L\sum_{i=1}^{k} l_i\left(\frac{n_i}{l_i} - \frac{n}{L}\right)^2 /(k-1)$$

where $\hat{\mathrm{var}}(n)$ = the spatial variation in the number of tortoises detected through the total transect length, L, n_i = the number of tortoises seen on transect, i, l_i = the length of individual transect i, and k = total number of transects walked. Because there were literally hundreds of transects walked at slightly different lengths we took the total transect length (493 km) and divided it by total transects walked (598) giving us an average length of 0.82 km per transect walked.

Therefore,

$$\hat{\mathrm{var}}(60) = 493\left[(552)(0.82)\left(\frac{0}{0.82} - \frac{60}{493}\right)^2 + (33)(0.82)\left(\frac{1}{0.82} - \frac{60}{493}\right)^2 + (12)(0.82)\left(\frac{2}{0.82} - \frac{60}{493}\right)^2 + (1)(0.82)\left(\frac{3}{0.82} - \frac{60}{493}\right)^2\right]/(598-1)$$

or

$$\widehat{\text{var}}(60) = 84.57.$$

And for

$$\text{var}\,\hat{D} = \hat{D}^2\left[\frac{\text{var}(n)}{n^2} + \frac{\text{var}(\hat{P}_a)}{(\hat{P}_a)^2} + \frac{\text{var}(\hat{P}_d)}{(\hat{P}_d)^2}\right],$$

we get

$$\text{var}\,\hat{D} = (8.2)^2\left[\frac{84.57}{(60)^2} + \frac{0.05}{(0.80)^2} + \frac{0.011}{(0.63)^2}\right], \text{ or } = 8.69.$$

Using our log transformation because the tortoise density sampling distribution is positively skewed (USFWS 2010a),

$$\text{var}(\log_e \hat{D}) = \log_e\left[1 + \frac{\text{var}(\hat{D})}{\hat{D}^2}\right]$$

we get

$$\text{var}(\log_e \hat{D}) = \log_e\left[1 + \frac{8.69}{(8.2)^2}\right], \text{ or } \text{var}(\log_e \hat{D}) = 0.12.$$

The confidence interval is then calculated using a log distribution for density because the tortoise density sampling distribution is positively skewed. Also, the equation is built with division and multiplication, rather than addition and subtraction from the mean as with a symmetrical interval (Buckland et al. 2001).

Then,

$$C_N = e^{x\, z_\alpha \sqrt{\text{var}(\log_e \hat{D})}}.$$

We get

$$C_N = e^{(1.96)\sqrt{0.12}}, \text{ or } C_N = 1.97.$$

Thus, the 95 percent confidence interval for $\hat{N}$ is

$$(\hat{N} / C_N, \hat{N} \cdot C_N).$$

We get

$\left(119/1.97), (119 \cdot 1.97)\right)$ or ~ (60, 234) (USFWS 2010c).

SUMMARY OF RESULTS AND CALCULATIONS:

The majority of tortoises and sign were observed in the lower elevation, creosote scrub flats of the northern and southern survey areas (see Appendix A: Maps); these areas consist of substrate suitable for burrow construction and numerous washes, and they contain abundant preferred desert tortoise foods (e.g., globe mallow and desert marigold). These characteristics provide higher quality habitat which is much more conducive to the desert tortoise; therefore the potential for encountering tortoises is much greater in these lower elevation flats. Although the higher elevation areas are much rockier with steeper slopes and contain less abundant food sources, providing an area which is much less conducive to the desert tortoise, a significant amount of sign were observed and documented in these areas. Through the USFWS calculations we were able to determine the actual number of adult tortoises above 160 mcl in the proposed wind farm area to be approximately 119, with a 95 percent confidence interval of approximately (60, 234) and an approximate density of 8.2 tortoises per km^2.

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Appendix A: Maps

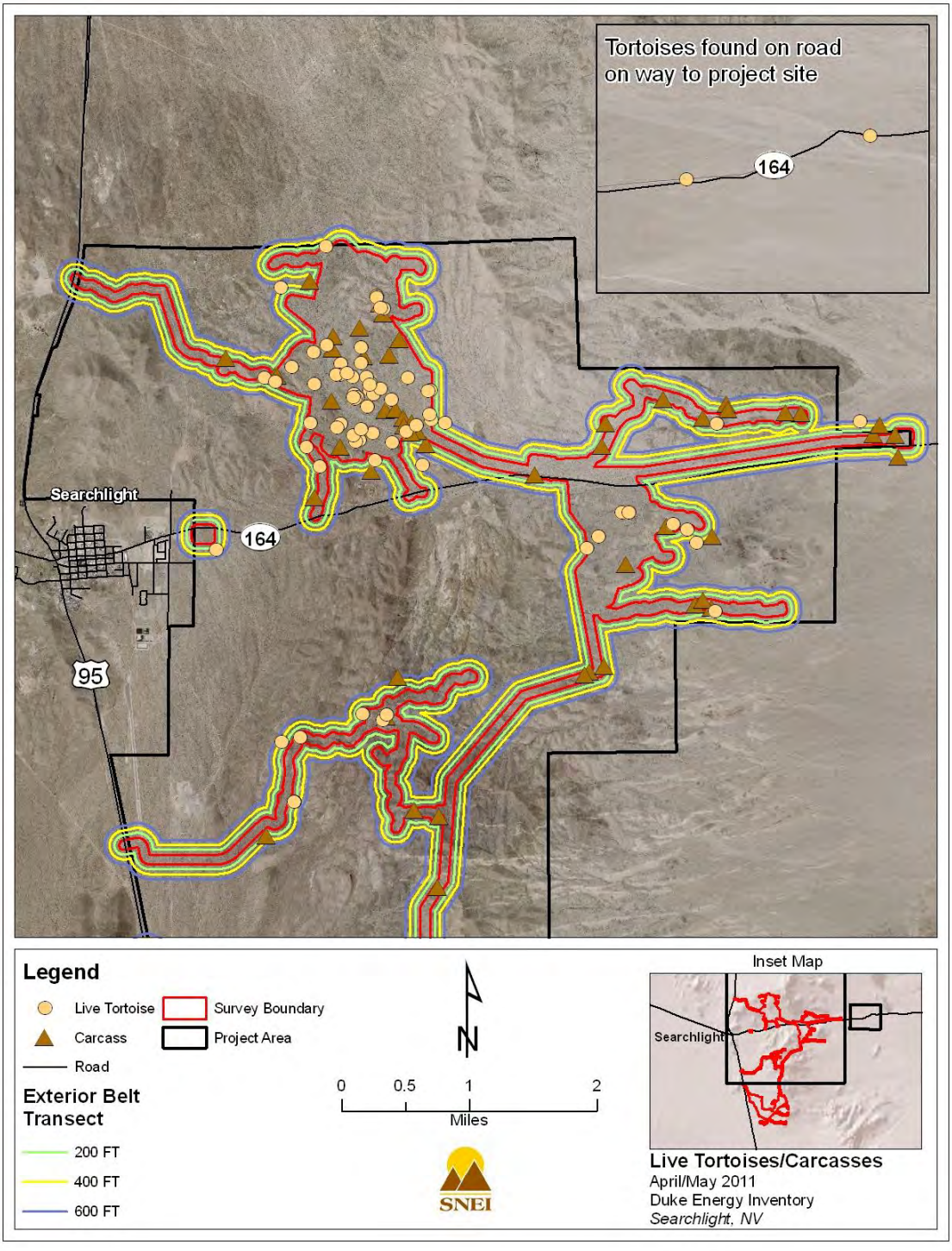

Figure 1. Live desert tortoises and carcasses, Northern half, sign map, June 2011

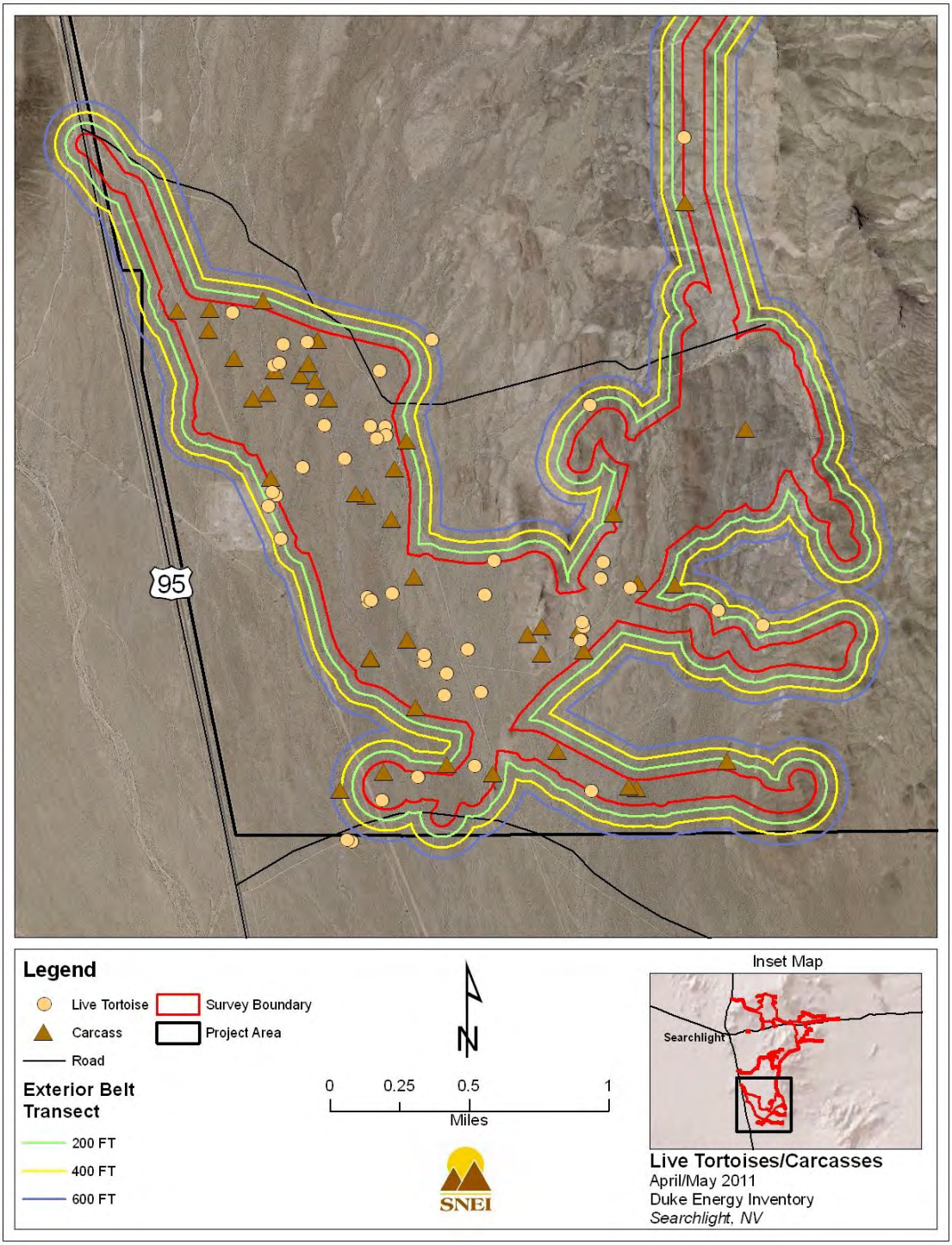

Figure 2. Live desert tortoises and carcasses, Southern half, sign map, June 2011

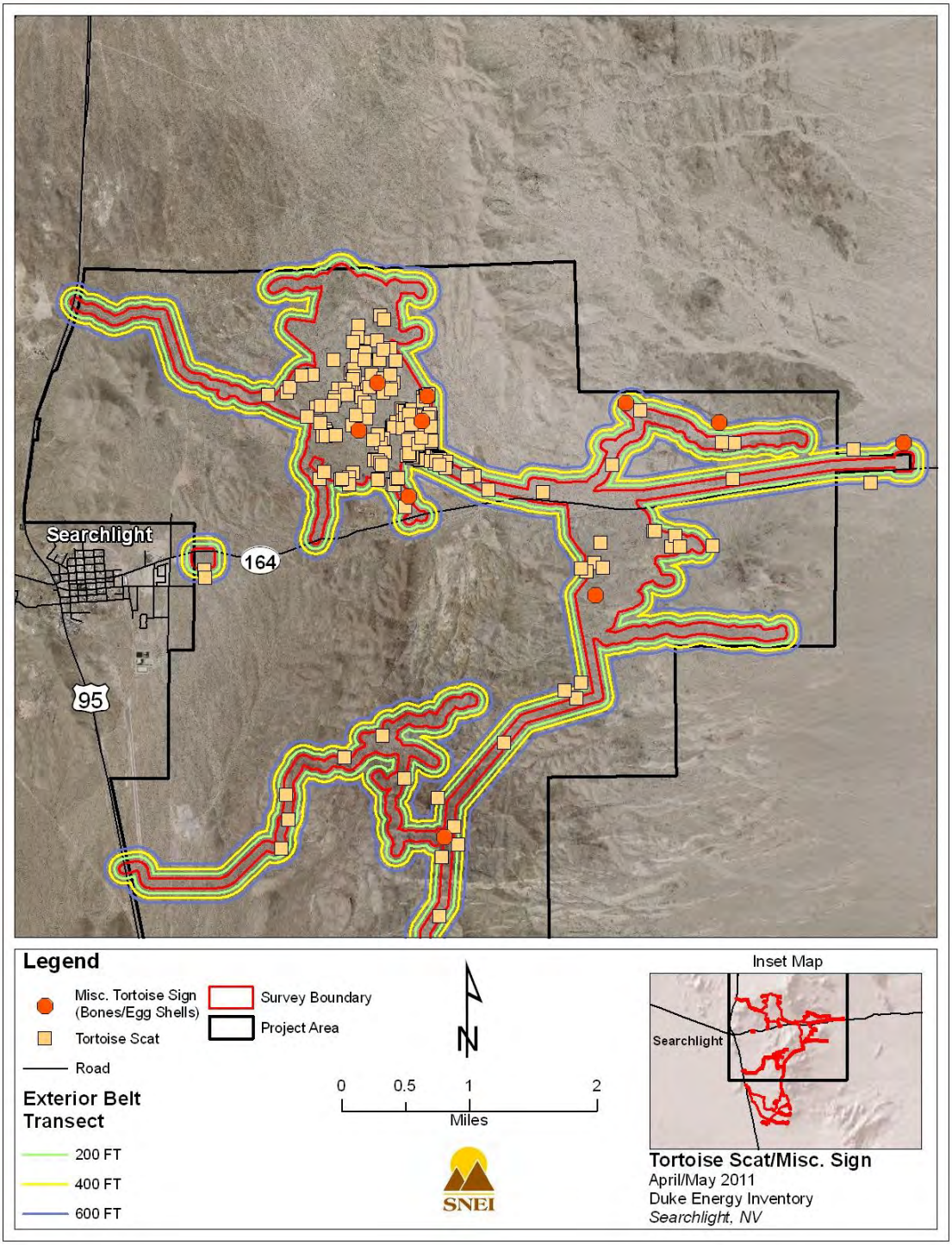

Figure 3. Desert tortoise scat and miscellaneous, Northern half, sign map, June 2011

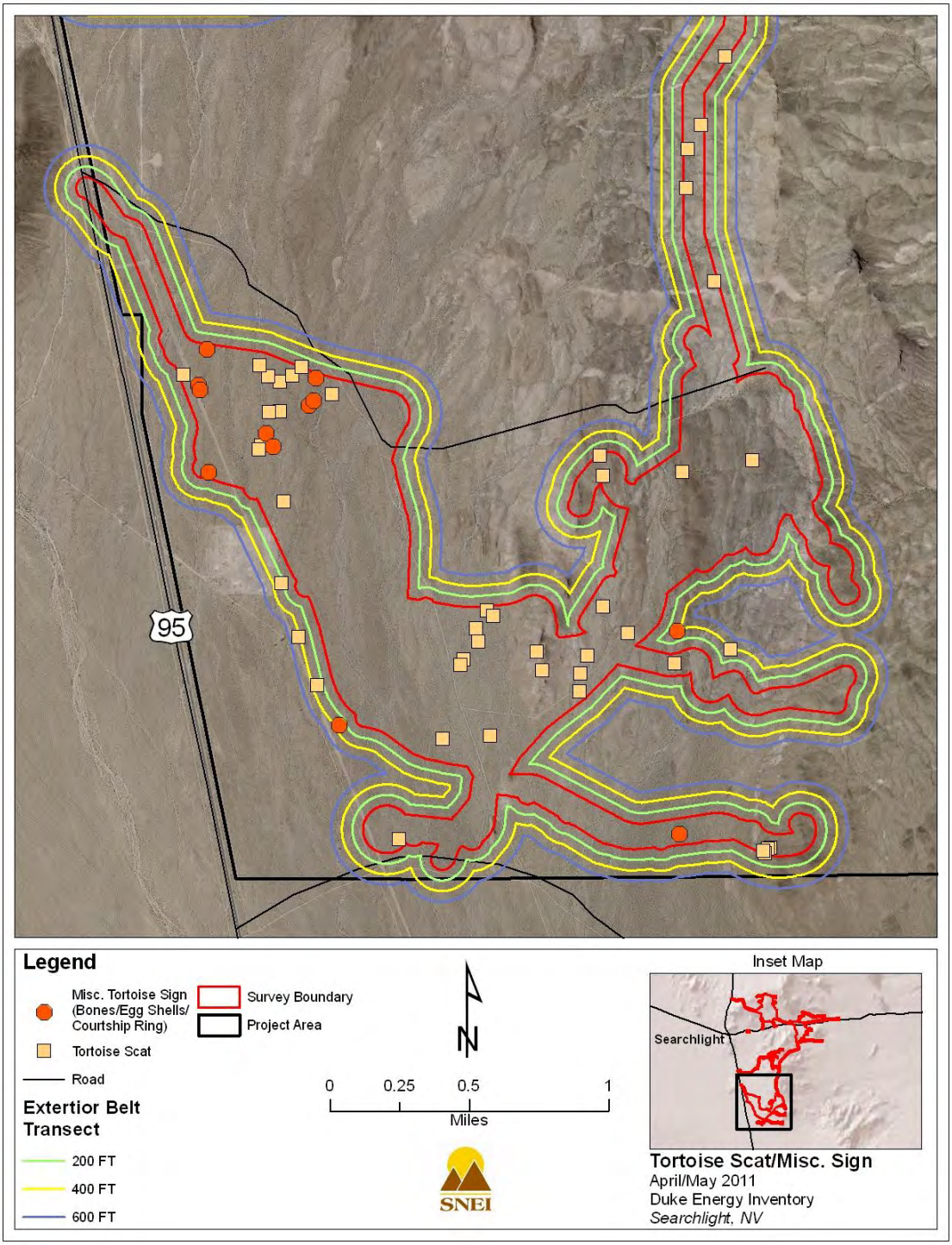

Figure 4. Desert tortoise scat and miscellaneous, Southern half, sign map, June 2011

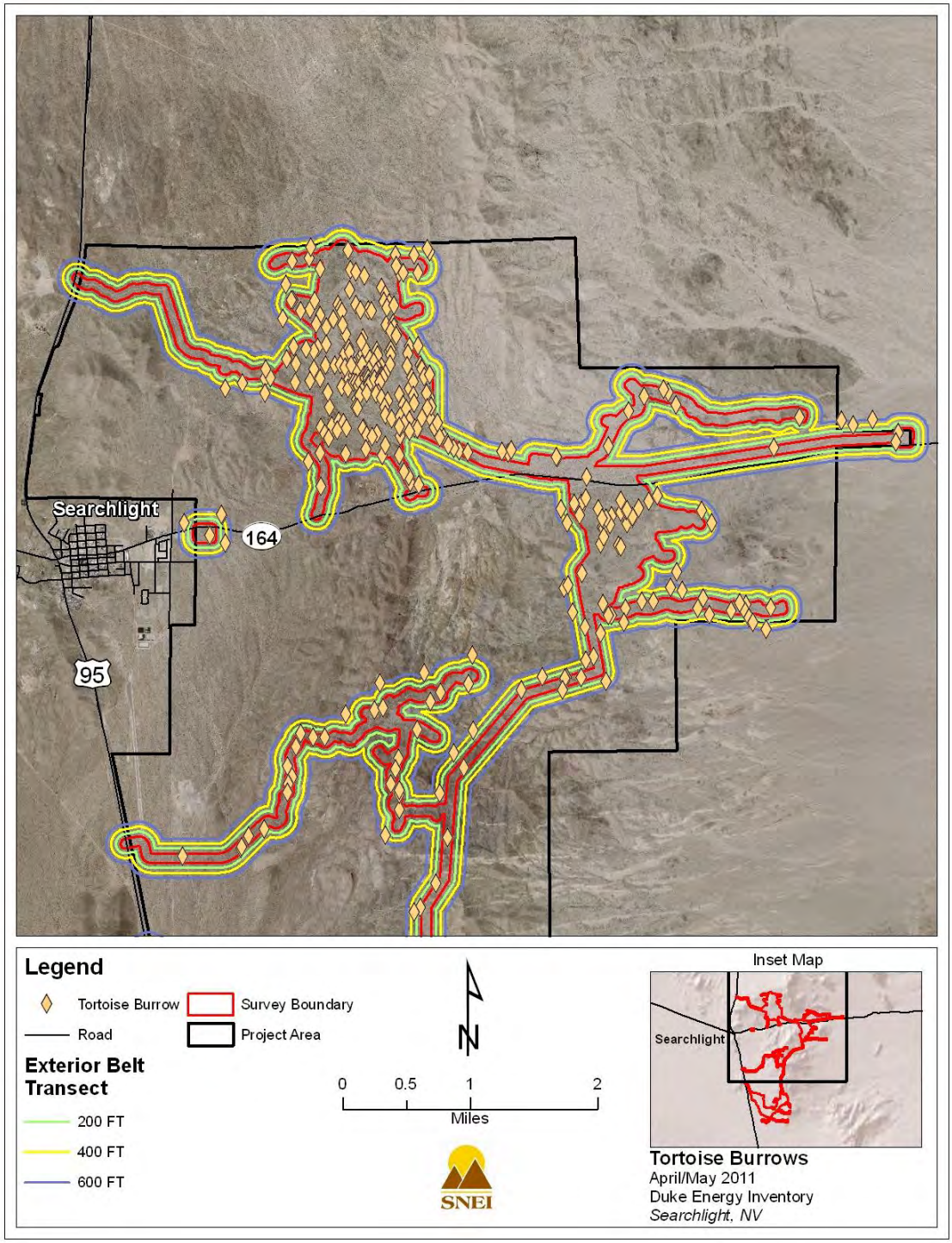

Figure 5. Desert tortoise burrows, Northern half, sign map, June 2011

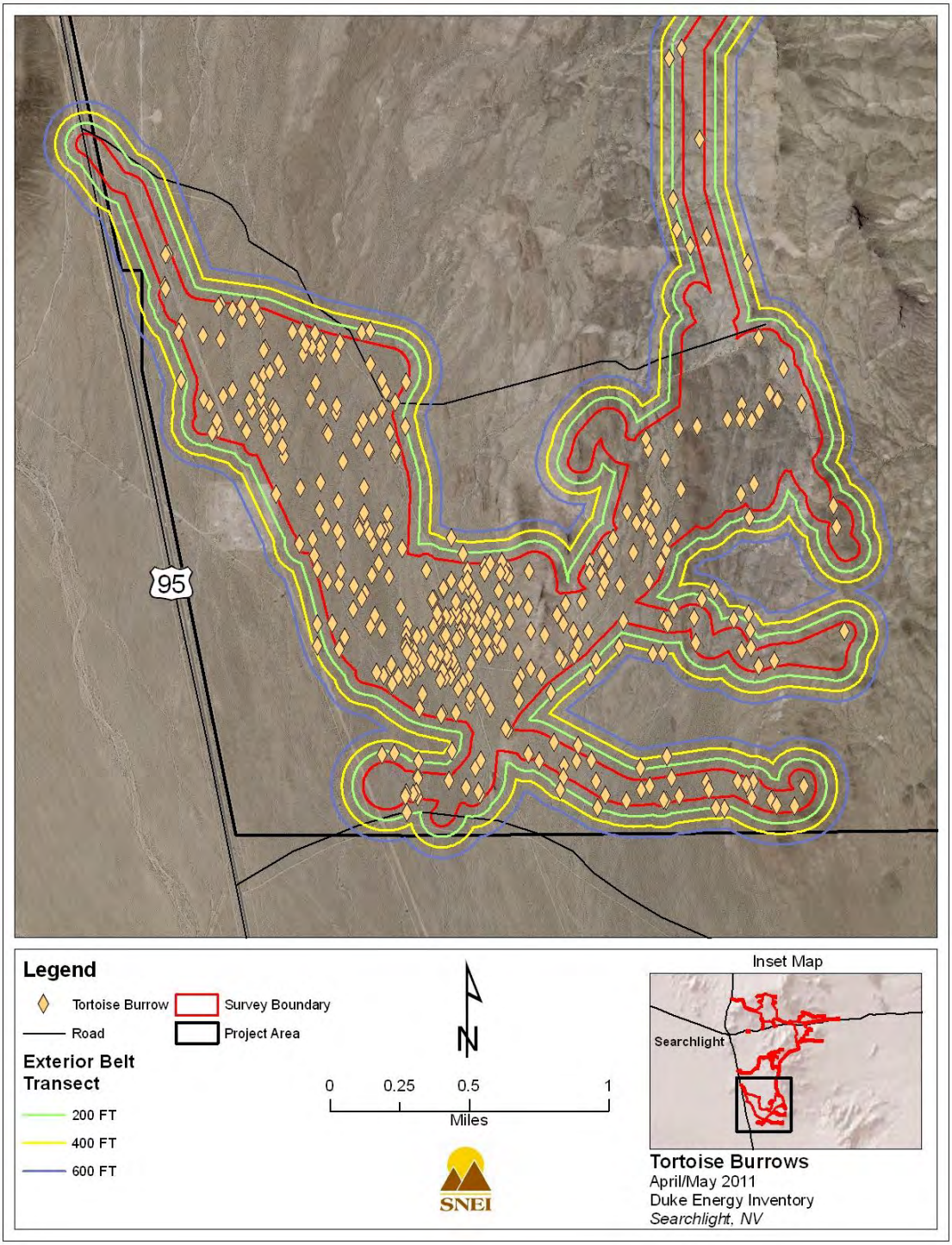

Figure 6. Desert tortoise burrows, Southern half, sign map, June 2011

Appendix B: Tortoise Sign Tables

Table 1: Live Tortoises

Way Point	Easting	Northing	Time	Tortoise Location	MCL[a]
T01	692271	3918576	11:29	In burrow	280
T02	692287	3919136	13:45	In burrow	250
T03	692847	3918989	11:15	In open	50
T04	692953	3919238	13:57	In burrow	290
T05	693126	3919190	7:02	In burrow	210
T06	691751	3919139	9:15	In open	235
T07	691629	3919094	10:10	In open	215
T08	691613	3919085	11:00	In burrow	190
T09	691606	3919113	11:38	Under vegetation	50
T10	692659	3928910	10:44	In open	245
T11	692652	3928819	12:06	Under vegetation	215
T12	692300	3928398	12:33	In open	173
T13	692724	3930007	8:40	In open	260
T14	692725	3929987	8:51	In open	240
T15	691955	3928892	12:01	Under vegetation	265
T16	691871	3928100	15:25	Under vegetation	250
T17	692777	3929867	7:51	In open	240
T18	692816	3929858	8:01	In open	55
T19	692857	3918961	12:26	In burrow	270
T20	692283	3929154	9:40	In burrow	200
T21	692275	3929018	13:25	In open	250
T22	692536	3929364	14:34	Under vegetation	240
T23	691912	3928397	15:59	In burrow	250
T24	693123	3928311	7:07	In burrow	260
T25	692950	3928168	8:17	In open	225
T26	693415	3928838	9:26	Under vegetation	195
T27	693384	3928827	9:35	In burrow	75
T28	693437	3928462	11:21	Under vegetation	250
T29	693415	3928533	12:05	Under vegetation	200
T30	692965	3919332	14:10	In open	240
T31	692228	3929012	10:51	In burrow	250
T32	692227	3929017	11:03	In burrow	250
T33	693243	3928387	12:30	In open	265
T34	696494	3927193	15:37	In burrow	UNK

Way Point	Easting	Northing	Time	Tortoise Location	MCL[a]
T35	692843	3918882	16:17	In open	205
T36	692191	3918821	14:42	In open	265
T37	692061	3918552	8:44	Under vegetation	195
T38	692924	3928712	8:15	In open	290
T39	692530	3928199	8:44	In open	300
T40	692482	3928170	8:52	In open	100
T41	692697	3928284	13:11	In burrow	200
T42	691468	3928917	12:26	In open	290
T43	691666	3929100	7:41	In burrow	210
T44	692072	3918680	9:14	Under vegetation	280
T45	691944	3918744	13:21	In burrow	200
T46	691942	3918785	13:58	Under vegetation	250
T47	690809	3920745	15:41	In open	41
T48	691101	3920566	14:41	In open	215
T49	691703	3920048	15:30	In open	275
T50	691650	3920030	15:43	In open	210
T51	691699	3920098	7:22	Under vegetation	275
T52	691466	3919908	7:50	In burrow	210
T53	691611	3920099	8:40	Under vegetation	260
T54	691076	3919695	11:20	In burrow	100
T55	691225	3919857	12:35	In open	260
T56	691660	3920421	15:08	In burrow	165
T57	691348	3920102	15:32	In open	265
T58	691052	3920441	15:52	Under vegetation	160
T59	691084	3920457	7:50	Under vegetation	290
T60	691242	3920581	8:39	In open	96
T61	691267	3920250	9:33	Under vegetation	200
T62	691916	3918079	15:09	In open	270
T63	691708	3917944	16:03	In open	50
T64	692244	3918146	7:37	In open	213
T65	692916	3918012	9:15	In open	165
T66	692628	3924747	13:29	Under vegetation	185
T67	692882	3924678	7:27	Under vegetation	230
T68	692930	3924747	7:38	Under vegetation	300
T69	691842	3924448	15:27	In open	120

Way Point	Easting	Northing	Time	Tortoise Location	MCL[a]
T70	692039	3927857	15:16	In open	300
T71	693399	3921793	13:11	In burrow	UNK
T72	691941	3929291	8:06	In open	240
T73	692108	3929381	11:55	In open	285
T74	692701	3928774	7:19	In open	230
T75	692795	3928842	8:03	In open	200
T76	692625	3928616	8:22	In open	280
T77	692455	3928252	12:21	In burrow	230
T78	692549	3928331	13:53	In burrow	210
T79	693133	3928985	7:35	In open	280
T80	691332	3928959	10:30	In open	45
T81	692371	3929034	7:35	In open	220
T82	692542	3929161	9:37	In open	49
T83	692440	3928989	11:55	Under vegetation	250
T84	692611	3928993	9:56	Under vegetation	290
T85	692463	3928774	11:18	In open	270
T86	692502	3928730	11:31	In open	225
T87	692465	3928712	11:37	Under vegetation	233
T88	692450	3928734	11:48	In open	260
T89	692244	3928343	9:44	In open	140
T90	692647	3928894	10:41	Under vegetation	235
T91	697026	3928460	10:37	In open	180
T92	697038	3926102	9:12	In open	185
T93	695846	3927329	8:52	In burrow	200
T94	695935	3927333	8:45	In open	275
T95	695561	3927021	7:41	Under vegetation	220
T96	691961	3920602	11:23	In burrow	220
T97Z	693335	3927895	6:59	In burrow	210
T98Z	696798	3926962	9:39	In burrow	170
T99Z	693613	3928427	10:08	In open	215
T100Z	691514	3930098	9:06	In open	190
T101Z	698829	3928524	12:29	Under vegetation	230
T102Z	691607	3924383	8:39	In open	240
T103Z	693891	3918982	11:57	In burrow	190
T104Z	692739	3927940	9:06	In open	255

Way Point	Easting	Northing	Time	Tortoise Location	MCL[a]
T105Z	691776	3923633	14:30	In burrow	250
T106Z	691775	3923634	14:31	In burrow	210
T107Z	691775	3923633	14:33	In burrow	210
T108Z	691774	3923632	14:33	In burrow	210
T109Z	692878	3920240	12:45	In open	300
T110Z	691031	3919627	9:18	In open	120
T111Z	693631	3919066	10:57	In burrow	250
T112Z	692078	3930631	8:07	In burrow	180
T113I	692335	3919333	16:21	In open	240
T114I	691107	3919441	13:36	In burrow	275
T115I	695416	3926877	9:12	In open	215
T116I	691052	3919712	12:25	Under vegetation	230
T117I	691509	3917710	16:45	In open	220
T118I	691541	3917703	16:31	In open	210
T119I	690752	3926784	10:12	In open	260
T120I	696669	3927132	10:01	In burrow	150
T121I	701117	3928398	4:14	In open	195
T122I	702777	3928788	17:06	In open	220

[a]Midline carapace length.

Table 2: Tortoise Scat

Waypoint	Easting	Northing	Class/Comments[a]
TS01	692250	3919118	Class 2
TS02	692237	3919195	Class 2
TS03	692296	3919298	Class 2
TS04	692326	3918574	Class 3
TS05	692333	3919269	Class 2
TS06	692620	3918958	Class 2
TS07	692839	3918943	Class 4
TS08	692965	3919331	Class 5
TS09	693113	3919177	Class 4
TS10	692589	3919062	Class 3
TS11	692878	3919048	Class 2
TS12	692956	3920083	Class 5
TS13	692935	3920202	Class 5
TS14	692838	3918839	Class 2, 2 pieces
TS15	691387	3920531	Class 3
TS16	690980	3920232	Class 5
TS17	690970	3920210	Class 5
TS18	691084	3920430	Class 5
TS19	691026	3920426	Class 4
TS20	691085	3920600	Class 5
TS21	691158	3920635	Class 4
TS22	691017	3920629	Class 4
TS23	690967	3920693	Class 4
TS24	690529	3920632	Class 3
TS25	692051	3918553	Class 2
TS26	692164	3919013	Class 1
TS27	692149	3918982	Class 2
TS28	693411	3920113	Class 3
TS29	693813	3920185	Class 4
TS30	691626	3923343	Class 4
TS31	691707	3923705	Class 4
TS32	693385	3919008	Class 4
TS33	693951	3917950	Class 4
TS34	693936	3917949	Class 4

Waypoint	Easting	Northing	Class/Comments[a]
TS35	693919	3917919	Class 4
TS36	693910	3917932	Class 4
TS37	691808	3917970	Class 3
TS38	691117	3919908	Class 4
TS39	691372	3929041	Class 2
TS40	692467	3929157	Class 2
TS41	692767	3929501	Class 5
TS42	692909	3929658	Class 2
TS43	692099	3928626	Class 5
TS44	692067	3928536	Class 2
TS45	692120	3928579	Class 5
TS46	692111	3928595	Class 3
TS47	692558	3929170	Class 3
TS48	692593	3929196	Class 2
TS49	692620	3929205	Class 2
TS50	692675	3929319	Class 4
TS51	692113	3928557	Class 5
TS52	692118	3928546	Class 5
TS53	692106	3928535	Class 5
TS54	692398	3924494	Class 4
TS55	691678	3924011	Class 3
TS56	692040	3927993	Class 5
TS57	693123	3927659	Class 2
TS58	692962	3927937	Class 4, 3 Pieces
TS59	692981	3927929	Class 2
TS60	693004	3928010	Class 2
TS61	693023	3928019	Class 4
TS62	694407	3924706	Class 2
TS63	693411	3921750	Class 5
TS64	693415	3921974	Class 5
TS65	693647	3923261	Class 4
TS66	695311	3925277	Class 2
TS67	692875	3924773	Class 4
TS68	693158	3924240	Class 4
TS69	692444	3928680	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TS70	692821	3929091	Class 2
TS71	692951	3929225	Class 2
TS72	692101	3928088	Class 2
TS73	692614	3928766	Class 2
TS74	692771	3930062	Class 2
TS75	692818	3930017	Class 4
TS76	692572	3929724	Class 2
TS77	691982	3928893	Class 2
TS78	691982	3928894	Class 4
TS79	692491	3929549	Class 5
TS80	692589	3929611	Class 4
TS81	692049	3928916	Class 5
TS82	692412	3929331	Class 4
TS83	692432	3929377	Class 2
TS84	692450	3929383	Class 5
TS85	692594	3929605	Class 3
TS86	692741	3929753	Class 1
TS87	692266	3929132	Class 2
TS88	692255	3929136	Class 2
TS89	692224	3929022	Class 5
TS90	692459	3929299	Class 4
TS91	692589	3929499	Class 2
TS92	692443	3929252	Class 3
TS93	692349	3929139	Class 2
TS94	692212	3928983	Class 3
TS95	692182	3928918	Class 3
TS96	692038	3928701	Class 2
TS97	692820	3929637	Class 2
TS98	692372	3929057	Class 3
TS99	692553	3929036	Class 2
TS100	692644	3929162	Class 5
TS101	692240	3928546	Class 5
TS102	692597	3928961	Class 4
TS103	692822	3929274	Class 4
TS104	692976	3929502	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TS105	692491	3928808	Class 3
TS106	692906	3929325	Class 3
TS107	692644	3928918	Class 2
TS108	693431	3928389	Class 3
TS109	693427	3928382	Class 5
TS110	693295	3928252	Class 4
TS111	693272	3928266	Class 4
TS112	693296	3928261	Class 3
TS113	693429	3928444	Class 2, 2 pieces
TS114	693054	3928895	Class 2
TS115	693078	3928871	Class 3
TS116	692455	3928078	Class 3
TS117	692407	3928019	Class 5
TS118	692939	3928654	Class 4
TS119	692947	3928672	Class 3
TS120	692994	3928726	Class 2
TS121	693104	3928863	Class 3
TS122	692955	3928655	Class 2
TS123	692831	3928513	Class 2
TS124	692805	3928458	Class 4
TS125	693072	3928749	Class 2
TS126	693107	3928774	Class 3
TS127	693171	3928868	Class 3
TS128	693180	3928873	Class 2
TS129	693182	3928879	Class 3
TS130	693188	3928889	Class 3, 2 pieces
TS131	693323	3929043	Class 2
TS132	692504	3929929	Class 3
TS133	692197	3929501	Class 3
TS134	692490	3929787	Class 3
TS135	692433	3929724	Class 4
TS136	692768	3928565	Class 3
TS137	692709	3928495	Class 3
TS138	692300	3927994	Class 3
TS139	692321	3927996	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TS140	692922	3929138	Class 2
TS141	693578	3921216	Class 3
TS142	693492	3922115	Class 4
TS143	693624	3922515	Class 4
TS144	693359	3929066	Class 2
TS145	693176	3928821	Class 3
TS146	693150	3928821	Class 2
TS147	692728	3928248	Class 3
TS148	692725	3928238	Class 3
TS149	693079	3928647	Class 3
TS150	693331	3928995	Class 3
TS151	693380	3929062	Class 3, 4 pieces
TS152	693399	3929084	Class 4
TS153	692858	3928342	Class 3
TS154	692774	3928238	Class 2
TS155	692799	3928213	Class 2
TS156	693181	3928607	Class 3
TS157	692818	3928184	Class 3
TS158	693339	3928808	Class 4
TS159	691613	3929072	Class 3
TS160	691652	3929144	Class 3
TS161	694169	3927887	Class 3
TS162	693443	3928307	Class 3
TS163	693453	3928295	Class 4
TS164	693513	3928294	Class 4
TS165	693532	3928283	Class 4
TS166	693534	3928267	Class 4
TS167	693553	3928260	Class 4, 3 pieces
TS168	693630	3928232	Class 3
TS169	693907	3928086	Class 4
TS170	693984	3928059	Class 4
TS171	695512	3926991	Class 2
TS172	693416	3928757	Class 2
TS173	693394	3928701	Class 2
TS174	693388	3928696	Class 2

Waypoint	Easting	Northing	Class/Comments[a]
TS175	692774	3928006	Class 4
TS176	693338	3928645	Class 3
TS177	693412	3928797	Class 3
TS178	693423	3928785	Class 3
TS179	693420	3928837	Class 3
TS180	693397	3928794	Class 2
TS181	693324	3928707	Class 2
TS182	693258	3928639	Class 2
TS183	693174	3928521	Class 4
TS184	693149	3928506	Class 3
TS185	693438	3928493	Class 2
TS186	693211	3928278	Class 3
TS187	693202	3928277	Class 2
TS188	693196	3928300	Class 2
TS189	693129	3928307	Class 3
TS190	693168	3928313	Class 2
TS191	693159	3928332	Class 3
TS192	693280	3928454	Class 2
TS193	693315	3928537	Class 2
TS194	693427	3928675	Class 3
TS195	691933	3929307	Class 2
TS196	691868	3928777	Class 2
TS197	691792	3929295	Class 3
TS198	693621	3928159	Class 2
TS199	693485	3928212	Class 2
TS200	693436	3928241	Class 4
TS201	693499	3928240	Class 2
TS202	693547	3928194	Class 3
TS203	693901	3928041	Class 4
TS204	694849	3927868	Class 2
TS205	697181	3928500	Class 2
TS206	697248	3928517	Class 2
TS207	697092	3928525	Class 2
TS208	696058	3928916	Class 2
TS209	696249	3927400	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TS210	696272	3927398	Class 3
TS211	696474	3927212	Class 2
TS212	696478	3927206	Class 2
TS213	697241	3928075	Class 3
TS214	695584	3927241	Class 2
TS215	693370	3929056	Class 3, 2 pieces
TS216	696524	3927349	Class 3, 4 pieces
TS217	696582	3927212	Class 3
TS218	695713	3928229	Class 4
TS219	695616	3926931	Class 3
TS220	693182	3928700	Class 4
TS221Z	693704	3919094	Class 4
TS222Z	691109	3919438	Class 2
TS223Z	693848	3923419	Class 4
TS224Z	698975	3928050	Class 2
TS225Z	698750	3928463	Class 3
TS226Z	695341	3926912	Class 2
TS227Z	696995	3927224	Class 4
TS228Z	695363	3925474	Class 4
TS229Z	695158	3925374	Class 5
TS230Z	693582	3924003	Class 4
TS231Z	691324	3918851	Class 2
TS232Z	691212	3919129	Class 1
TS233I	691208	3920689	Class 5
TS234I	690602	3926828	Class 2
TS235I	690621	3926737	Class 3
TS236I	693443	3928369	Class 4
TS237I	692416	3927935	Class 5
TS238I	693794	3923643	Class 3
TS239I	695417	3926879	Class 1
TS240I	692775	3928000	Class 4

[a] **Definitions of Scat Class**

Class 1: Wet (not from rain or dew) or freshly dried; obvious odor.
Class 2: Dried with glaze; some color; dark brown.
Class 3: Dried; no glaze or odor; bleaching (light brown); tightly packed.
Class 4: Dried; light brown to pale yellow, loose material.
Class 5: Bleached or consisting of only plant fiber.

Table 3: Tortoise Carcasses

Waypoint	Easting	Northing	Class/Comments[a]
TC01	692540	3918910	Class 5
TC02	692621	3918800	Class 5
TC03	692864	3918822	Class 5
TC04	692835	3918940	Class 5
TC05	692835	3918940	Class 5
TC06	693168	3919217	Class 3
TC07	691879	3919234	Class 5
TC08	693781	3920112	Class 1
TC09	691900	3918479	Class 5
TC10	691847	3918870	Class 5
TC11	691634	3918757	Class 2
TC12	695635	3928446	Class 5
TC13	692620	3918956	Class 2
TC14	691635	3918761	Class 2
TC15	691745	3919565	Class 5
TC16	691601	3919697	Class 5
TC17	697003	3926140	Class 5
TC18	696792	3926175	Class 5
TC19	696422	3927166	Class 5
TC20	691758	3919856	Class 5
TC21	691538	3919708	Class 5
TC22	691047	3919791	Class 5
TC23	691371	3920253	Class 5
TC24	691294	3920355	Class 5
TC25	690492	3920750	Class 5
TC26	690681	3920760	Class 5
TC27	690675	3920638	Class 5
TC28	691062	3920412	Class 5
TC29	690825	3920481	Class 5
TC30	690937	3920249	Class 5
TC31	691302	3920588	Class 5
TC32	691018	3920280	Class 5
TC33	691251	3920454	Class 3
TC34	691209	3920387	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TC35	692926	3924714	Class 4
TC36	693295	3923542	Class 5
TC37	693614	3923472	Class 4
TC38	691992	3927462	Class 5
TC39	693602	3922575	Class 5
TC40	692193	3929493	Class 4
TC41	692300	3928104	Class 4
TC42	692859	3928569	Class 3
TC43	692994	3928579	Class 5
TC44	691721	3918105	Class 5
TC45	693094	3928475	Class 5
TC46	692348	3918104	Class 3
TC47	692722	3918241	Class 5
TC48	691465	3928979	Class 5
TC49	693136	3918037	Class 5
TC50	691498	3928979	Class 5
TC51	693182	3918031	Class 5
TC52	695919	3926681	Class 5
TC53	699282	3928351	Class 5
TC54	695474	3925321	Class 5
TC55	695414	3925283	Class 5
TC56	692580	3929245	Class 5
TC57	692183	3928683	Class 5
TC58	692903	3929271	Class 1
TC59	693028	3929465	Class 2
TC60	692187	3929341	Class 4
TC61	692521	3929603	Class 3
TC62	692778	3929912	Class 5
TC63	692816	3929786	Class 2
TC64	693201	3928416	Class 5
TC65	693102	3928384	Class 2, possible coyote kill
TC66	693265	3928317	Class 5
TC67	693195	3928288	Class 2
TC68	694759	3927790	Class 5
TC69	696860	3928533	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TC70	698092	3928607	Class 5
TC71	697891	3928619	Class 5
TC72	695594	3928161	Class 5
TC73	696357	3928756	Class 5
TC74	696888	3926244	Class 5
TC75Z	693066	3925217	Class 5
TC76Z	697001	3927046	Class 5
TC77Z	693386	3919208	Class 5
TC78Z	691473	3917999	Class 4
TC79Z	691888	3930183	Class 5
TC80Z	697153	3928712	Class 5
TC81Z	699326	3928080	Class 4
TC82Z	699080	3928478	Class 5, few scattered pieces
TC83Z	693382	3928145	Class 3
TC84Z	691438	3923196	Class 5
TC85Z	692083	3918154	Class 5
TC86Z	690985	3920812	Class 3
TC87Z	691824	3920019	Class 5
TC88Z	693698	3918193	Class 5
TC89Z	695664	3925386	Class 5
TC90Z	697166	3928648	Class 5
TC91I	693026	3919613	Class 5
TC92I	693411	3921413	Class 5
TC93I	692700	3927804	Class 5
TC94I	690848	3929198	Class 2
TC95I	699002	3928355	Class 5

[a] **Definitions of Carcass Class**

Class 1: Fresh or putrid.
Class 2: Normal color; scutes adhere to bone.
Class 3: Scutes peeling off bone.
Class 4: Shell bone is falling apart; growth rings on scutes peeling.
Class 5: Disarticulated and scattered.

Table 4: Tortoise Burrows

Waypoint	Easting	Northing	Class/Comments[a]
TB01	692274	3918576	Class 5
TB02	692287	3919301	Class 5
TB03	692250	3918807	Class 4
TB04	692257	3918967	Class 5
TB05	692250	3918992	Class 4
TB06	693320	3919930	Class 3
TB07	693385	3919546	Class 5
TB08	692255	3919093	Class 5
TB09	692248	3919121	Class 5
TB10	692289	3919260	Class 1
TB11	692317	3919033	Class 3
TB12	692299	3918979	Class 4
TB13	692309	3918866	Class 5
TB14	692323	3918785	Class 5
TB15	692333	3918479	Class 4
TB16	692370	3918835	Class 5
TB17	692365	3918882	Class 5
TB18	692373	3918961	Class 3
TB19	692360	3919015	Class 4
TB20	692420	3919283	Class 3
TB21	692427	3919243	Class 2
TB22	692403	3919267	Class 2
TB23	692435	3919096	Class 5
TB24	692435	3918984	Class 3
TB25	692495	3918528	Class 5
TB26	692487	3918621	Class 5
TB27	692504	3918665	Class 5
TB28	692486	3918806	Class 4
TB29	692486	3919101	Class 5
TB30	692546	3919275	Class 2
TB31	692542	3919063	Class 2
TB32	692559	3918927	Class 5
TB33	692563	3918711	Class 3
TB34	692626	3918667	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB35	692748	3918763	Class 2
TB36	692726	3918781	Class 5
TB37	692744	3918971	Class 3
TB38	692804	3918931	Class 5
TB39	692850	3919103	Class 2
TB40	692893	3919327	Class 3
TB41	692896	3919270	Class 3
TB42	692962	3919167	Class 3
TB43	692961	3919268	Class 3
TB44	692999	3919343	Class 5
TB45	693069	3919200	Class 5
TB46	693145	3919389	Class 4
TB47	693160	3919562	Class 3
TB48	693204	3919638	Class 3
TB49	693213	3919550	Class 3
TB50	693257	3919463	Class 3
TB51	693243	3919524	Class 5
TB52	693304	3919345	Class 3
TB53	693300	3919339	Class 5
TB54	693342	3919481	Class 4
TB55	692228	3919064	Class 5
TB56	692225	3919068	Class 4
TB57	692194	3919170	Class 2
TB58	692220	3919174	Class 3
TB59	692193	3919214	Class 5
TB60	692303	3918534	Class 5
TB61	692322	3919036	Class 3
TB62	692320	3919315	Class 5
TB63	692387	3919326	Class 2
TB64	692378	3919262	Class 1
TB65	692370	3919159	Class 1
TB66	692398	3918847	Class 3
TB67	692436	3918358	Class 3
TB68	692421	3918363	Class 1
TB69	692484	3918632	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB70	692637	3918906	Class 3
TB71	692711	3919027	Class 5
TB72	692756	3919088	Class 4
TB73	692810	3918791	Class 2
TB74	692835	3918858	Class 2
TB75	692888	3918932	Class 5
TB76	692965	3919396	Class 3
TB77	692966	3919288	Class 3
TB78	692964	3919270	Class 4
TB79	692979	3919219	Class 3
TB80	693025	3919471	Class 5
TB81	693106	3919624	Class 2
TB82	693235	3919227	Class 5
TB83	693226	3919688	Class 2
TB84	693213	3919731	Class 4
TB85	693220	3919988	Class 4
TB86	693208	3920047	Class 4
TB87	693268	3919648	Class 5
TB88	693757	3919737	Class 5
TB89	692234	3918881	Class 5
TB90	692216	3918912	Class 2
TB91	692219	3918909	Class 2
TB92	692212	3919002	Class 2
TB93	692246	3918872	Class 5
TB94	691435	3920576	Class 3
TB95	691052	3920198	Class 3
TB96	690999	3920161	Class 5
TB97	691330	3920501	Class 3
TB98	691338	3920581	Class 3
TB99	691322	3920548	Class 3
TB100	690985	3920244	Class 5
TB101	690934	3920178	Class 5
TB102	690858	3920130	Class 3
TB103	691226	3920509	Class 5
TB104	691275	3920550	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB105	691239	3920567	Class 3
TB106	691100	3920420	Class 2
TB107	690981	3920303	Class 4
TB108	690919	3920239	Class 4
TB109	690740	3920070	Class 3
TB110	690707	3920046	Class 4
TB111	690732	3920113	Class 3
TB112	690942	3920344	Class 5
TB113	690999	3920389	Class 3
TB114	691035	3920403	Class 1
TB115	691083	3920460	Class 4
TB116	691290	3920630	Class 5
TB117	691217	3920640	Class 3
TB118	690821	3920296	Class 3
TB119	690768	3920256	Class 2
TB120	690685	3920214	Class 5
TB121	691162	3920636	Class 2
TB122	691005	3920537	Class 4
TB123	690996	3920527	Class 3
TB124	690655	3920240	Class 4
TB125	690977	3920703	Class 5
TB126	690964	3920713	Class 5
TB127	690748	3920587	Class 5
TB128	690868	3920699	Class 5
TB129	6900940	3920774	Class 3
TB130	690523	3920678	Class 4
TB131	690506	3920624	Class 4
TB132	690746	3920786	Class 3
TB133	690732	3920774	Class 5
TB134	690868	3920780	Class 3
TB135	690813	3920757	Class 3
TB136	690646	3920605	Class 3
TB137	692212	3918503	Class 5
TB138	692216	3918542	Class 3
TB139	692205	3918653	Class 2

Waypoint	Easting	Northing	Class/Comments[a]
TB140	692215	3918740	Class 2
TB141	692178	3918996	Class 5
TB142	692184	3919054	Class 5
TB143	692188	3919274	Class 2
TB144	692161	3919189	Class 3
TB145	692169	3918999	Class 2
TB146	692150	3918951	Class 5
TB147	692153	3918923	Class 2
TB148	692173	3918625	Class 5
TB149	692144	3918590	Class 2
TB150	692132	3918705	Class 2
TB151	692148	3918883	Class 2
TB152	692133	3918879	Class 3
TB153	692135	3919008	Class 5
TB154	692127	3919043	Class 3
TB155	692126	3919092	Class 5
TB156	692133	3918451	Class 5
TB157	692121	3918734	Class 5
TB158	692113	3918750	Class 4
TB159	692097	3919213	Class 3
TB160	692093	3918999	Class 3
TB161	692088	3918821	Class 2
TB162	692082	3918745	Class 2
TB163	692100	3918659	Class 4
TB164	692056	3918445	Class 2
TB165	692066	3918652	Class 3
TB166	692053	3918694	Class 3
TB167	692077	3918776	Class 4
TB168	692055	3918895	Class 2
TB169	692070	3918901	Class 3
TB170	692069	3919005	Class 5
TB171	692050	3919159	Class 3
TB172	692023	3919035	Class 3
TB173	692033	3918989	Class 3
TB174	692023	3918987	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB175	692036	3918785	Class 5
TB176	692041	3918640	Class 3
TB177	692050	3918437	Class 3
TB178	692008	3918738	Class 5
TB179	691997	3918814	Class 3
TB180	691999	3918950	Class 5
TB181	692018	3919022	Class 4
TB182	692000	3919103	Class 3
TB183	691985	3919095	Class 3
TB184	691986	3918748	Class 3
TB185	691937	3918558	Class 5
TB186	691938	3918890	Class 3
TB187	691925	3918708	Class 3
TB188	691924	3918472	Class 5
TB189	691890	3918681	Class 5
TB190	691907	3918753	Class 2
TB191	691903	3918888	Class 5
TB192	691884	3918814	Class 5
TB193	691885	3918756	Class 4
TB194	691870	3918655	Class 3
TB195	691851	3918638	Class 3
TB196	691847	3918683	Class 4
TB197	691847	3918819	Class 5
TB198	691856	3918843	Class 3
TB199	691847	3918948	Class 3
TB200	691841	3918895	Class 5
TB201	691840	3918853	Class 4
TB202	691835	3918824	Class 3
TB203	691844	3918801	Class 3
TB204	691797	3918655	Class 5
TB205	691759	3918603	Class 4
TB206	691763	3918613	Class 4
TB207	691752	3918705	Class 3
TB208	691756	3918722	Class 4
TB209	691714	3918661	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB210	691671	3918678	Class 4
TB211	693754	3920252	Class 5
TB212	693915	3920319	Class 5
TB213	693972	3920280	Class 5
TB214	693964	3920280	Class 5
TB215	693394	3920106	Class 5
TB216	693500	3920122	Class 4
TB217	693675	3920166	Class 5
TB218	693756	3920181	Class 2
TB219	693858	3920216	Class 5
TB220	694103	3920261	Class 4
TB221	693747	3920170	Class 4
TB222	693817	3920163	Class 4
TB223	691108	3923010	Class 3
TB224	691123	3923030	Class 4
TB225	691747	3923923	Class 5
TB226	691792	3924310	Class 3
TB227	691698	3923844	Class 5
TB228	691698	3923837	Class 3
TB229	691684	3923729	Class 3
TB230	693850	3920638	Class 4
TB231	693993	3920462	Class 5
TB232	694291	3919677	Class 5
TB233	694313	3919553	Class 5
TB234	693835	3919794	Class 5
TB235	693413	3919758	Class 5
TB236	693774	3918835	Class 5
TB237	693499	3919020	Class 3
TB238	693324	3919001	Class 5
TB239	693509	3918875	Class 5
TB240	693964	3918776	Class 5
TB241	694365	3918952	Class 4
TB242	693878	3918744	Class 4
TB243	693345	3918981	Class 5
TB244	693090	3918995	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB245	693848	3917985	Class 4
TB246	692703	3918288	Class 3
TB247	692833	3918181	Class 3
TB248	692919	3918189	Class 3
TB249	693383	3918094	Class 5
TB250	693587	3918071	Class 2
TB251	693765	3918080	Class 5
TB252	693855	3918078	Class 4
TB253	694146	3918059	Class 4
TB254	693969	3917978	Class 5
TB255	693960	3917975	Class 4
TB256	693820	3918044	Class 2
TB257	693812	3918062	Class 4
TB258	693598	3918029	Class 5
TB259	693259	3918044	Class 4
TB260	693208	3918021	Class 5
TB261	692553	3918220	Class 5
TB262	692762	3918155	Class 2
TB263	692946	3918067	Class 5
TB264	693001	3917988	Class 5
TB265	693355	3917960	Class 5
TB266	693991	3917944	Class 5
TB267	694092	3917941	Class 5
TB268	693427	3917987	Class 4
TB269	693339	3917963	Class 5
TB270	693125	3917957	Class 5
TB271	692759	3918086	Class 3
TB272	692620	3918181	Class 5
TB273	691918	3918086	Class 2
TB274	691920	3918069	Class 5
TB275	691921	3917964	Class 5
TB276	691913	3917991	Class 2
TB277	691892	3917981	Class 5
TB278	691854	3917983	Class 3
TB279	691849	3917967	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB280	692252	3918132	Class 3
TB281	692200	3918023	Class 5
TB282	692282	3918178	Class 3
TB283	692280	3917982	Class 3
TB284	692101	3918059	Class 5
TB285	692272	3917999	Class 5
TB286	691635	3918942	Class 4
TB287	691660	3919001	Class 3
TB288	691950	3919268	Class 3
TB289	691661	3919005	Class 5
TB290	691988	3919105	Class 4
TB291	692052	3919168	Class 3
TB292	691700	3918929	Class 2
TB293	691806	3919053	Class 3
TB294	691486	3918880	Class 5
TB295	691488	3918877	Class 5
TB296	691534	3919038	Class 4
TB297	691600	3919136	Class 2
TB298	691580	3919105	Class 5
TB299	691414	3918958	Class 4
TB300	691534	3919171	Class 4
TB301	691534	3919172	Class 4
TB302	691449	3919184	Class 5
TB303	691380	3919201	Class 4
TB304	691456	3918810	Class 5
TB305	691458	3919259	Class 4
TB306	691455	3919429	Class 4
TB307	691439	3919492	Class 4
TB308	691305	3919346	Class 5
TB309	691292	3919441	Class 3
TB310	691370	3919511	Class 3
TB311	691220	3919410	Class 5
TB312	691440	3919661	Class 4
TB313	691333	3919610	Class 4
TB314	691334	3919766	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB315	691219	3919733	Class 4
TB316	691325	3919271	Class 4
TB317	691811	3919392	Class 5
TB318	691679	3919305	Class 4
TB319	691638	3919240	Class 5
TB320	691721	3919395	Class 5
TB321	691730	3919513	Class 3
TB322	691707	3919496	Class 3
TB323	691642	3919428	Class 5
TB324	691686	3919493	Class 4
TB325	691621	3919478	Class 4
TB326	691725	3919596	Class 5
TB327	691594	3919533	Class 2
TB328	691552	3919515	Class 5
TB329	691562	3919497	Class 5
TB330	691583	3919577	Class 3
TB331	691589	3919598	Class 5
TB332	691735	3919232	Class 2
TB333	691586	3919745	Class 5
TB334	691462	3919892	Class 2
TB335	691079	3919698	Class 2
TB336	691120	3919919	Class 4
TB337	691109	3919975	Class 3
TB338	691028	3920021	Class 5
TB339	691110	3920107	Class 4
TB340	691071	3920088	Class 3
TB341	691004	3920092	Class 3
TB342	691068	3920187	Class 5
TB343	691001	3920126	Class 3
TB344	690903	3920060	Class 5
TB345	691367	3920057	Class 2
TB346	691374	3920047	Class 3
TB347	691417	3920172	Class 4
TB348	691421	3920213	Class 4
TB349	691343	3920196	Class 4

Waypoint	Easting	Northing	Class/Comments[a]
TB350	691270	3920246	Class 1
TB351	691298	3920344	Class 4
TB352	691611	3920457	Class 5
TB353	691412	3920504	Class 5
TB354	691683	3920195	Class 2
TB355	691635	3920148	Class 5
TB356	691703	3920298	Class 3
TB357	691680	3920360	Class 2
TB358	691762	3919937	Class 4
TB359	691769	3919961	Class 2
TB360	691730	3920065	Class 2
TB361	691613	3919953	Class 5
TB362	691609	3919959	Class 3
TB363	691535	3920019	Class 4
TB364	691563	3920110	Class 3
TB365	691574	3920129	Class 2
TB366	690418	3920892	Class 5
TB367	690423	3920871	Class 5
TB368	690437	3921077	Class 5
TB369	690422	3921071	Class 2
TB370	692192	3919220	Class 3
TB371	691327	3928944	Class 3
TB372	691402	3928949	Class 3
TB373	691339	3929060	Class 2
TB374	693909	3924068	Class 4
TB375	695524	3925493	Class 5
TB376	695185	3925226	Class 3
TB377	692381	3929034	Class 3
TB378	692456	3929113	Class 4
TB379	692547	3929209	Class 2
TB380	692536	3929238	Class 3
TB381	692557	3929277	Class 3
TB382	692598	3929316	Class 5
TB383	692848	3929639	Class 3
TB384	692934	3929658	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB385	692296	3928849	Class 3
TB386	692385	3928946	Class 3
TB387	692446	3929001	Class 4
TB388	692476	3929046	Class 2
TB389	692551	3929132	Class 4
TB390	692947	3929609	Class 3
TB391	692910	3929565	Class 3
TB392	692738	3929314	Class 2
TB393	692645	3929202	Class 3
TB394	692150	3928591	Class 5
TB395	695366	3925225	Class 5
TB396	695168	3925185	Class 5
TB397	693712	3923183	Class 5
TB398	693490	3921779	Class 4
TB399	693538	3921217	Class 3
TB400	693381	3922302	Class 3
TB401	693572	3922609	Class 5
TB402	694620	3925065	Class 5
TB403	695165	3925218	Class 5
TB404	691652	3930421	Class 5
TB405	691870	3930471	Class 5
TB406	691885	3929824	Class 5
TB407	691768	3929804	Class 5
TB408	691667	3929934	Class 5
TB409	691652	3929937	Class 5
TB410	692350	3930575	Class 5
TB411	690375	3922905	Class 2
TB412	691206	3923172	Class 5
TB413	691687	3924064	Class 4
TB414	691846	3924469	Class 5
TB415	692002	3924430	Class 5
TB416	692146	3924424	Class 2
TB417	692775	3924777	Class 5
TB418	692882	3924815	Class 4
TB419	693316	3924539	Class 4

Waypoint	Easting	Northing	Class/Comments[a]
TB420	693474	3924903	Class 4
TB421	693596	3925022	Class 4
TB422	693105	3923529	Class 3
TB423	692987	3923853	Class 2
TB424	693080	3924174	Class 4
TB425	693097	3923731	Class 5
TB426	693094	3923780	Class 5
TB427	693049	3924040	Class 5
TB428	690660	3926957	Class 5
TB429	692058	3927591	Class 3, in sand
TB430	692043	3928009	Class 5
TB431	693178	3927656	Class 5
TB432	693154	3927734	Class 5
TB433	693099	3927796	Class 5
TB434	693041	3927995	Class 5
TB435	693287	3927627	Class 4
TB436	692384	3928828	Class 3
TB437	692444	3928908	Class 5
TB438	692984	3929538	Class 5
TB439	692746	3929255	Class 3
TB440	692701	3929172	Class 4
TB441	692480	3928898	Class 5
TB442	692043	3928337	Class 5
TB443	692509	3928874	Class 2
TB444	692524	3928914	Class 2
TB445	692579	3928996	Class 3
TB446	692588	3928950	Class 3
TB447	692596	3928966	Class 5
TB448	692640	3929072	Class 2
TB449	692973	3929502	Class 4
TB450	692888	3929311	Class 5
TB451	692617	3928991	Class 1
TB452	692090	3928255	Class 5
TB453	692175	3928351	Class 2
TB454	692639	3928946	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB455	692630	3928961	Class 2
TB456	692910	3929323	Class 2
TB457	692911	3929261	Class 5
TB458	692794	3929111	Class 3
TB459	692756	3929084	Class 2
TB460	692761	3929068	Class 5
TB461	692731	3929044	Class 4
TB462	692564	3928810	Class 2
TB463	692525	3928749	Class 2
TB464	692267	3928415	Class 4
TB465	692142	3928199	Class 3
TB466	692490	3928690	Class 3
TB467	692524	3928739	Class 5
TB468	692643	3928905	Class 2
TB469	692637	3928892	Class 5
TB470	692643	3928884	Class 3
TB471	692712	3928954	Class 2
TB472	692903	3929145	Class 5
TB473	692788	3928993	Class 3
TB474	692619	3928770	Class 5
TB475	692250	3928294	Class 3
TB476	692326	3928400	Class 3
TB477	692481	3928593	Class 3
TB478	692503	3928583	Class 5
TB479	692808	3928992	Class 3
TB480	692844	3929021	Class 5
TB481	693148	3929370	Class 2
TB482	692818	3928973	Class 5
TB483	692776	3928911	Class 3
TB484	692783	3930107	Class 5
TB485	692981	3930379	Class 5
TB486	692342	3929517	Class 5
TB487	692618	3929818	Class 5
TB488	693001	3930294	Class 3
TB489	692833	3930024	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB490	692654	3929816	Class 2
TB491	692095	3929115	Class 5
TB492	692029	3928956	Class 5
TB493	692818	3929933	Class 5
TB494	692212	3929122	Class 5
TB495	692323	3929261	Class 5
TB496	692383	3929335	Class 3
TB497	692883	3929918	Class 4
TB498	692856	3929858	Class 5
TB499	692558	3929468	Class 3
TB500	692535	3929429	Class 3
TB501	692534	3929420	Class 3
TB502	692396	3929287	Class 5
TB503	692274	3929133	Class 1
TB504	692942	3929890	Class 3
TB505	692338	3929094	Class 3
TB506	692125	3928781	Class 3
TB507	692414	3929128	Class 2
TB508	691942	3929931	Class 4
TB509	692389	3930324	Class 4
TB510	692011	3929746	Class 5
TB511	692452	3930296	Class 4
TB512	691969	3929638	Class 5
TB513	692236	3929884	Class 5
TB514	692563	3930248	Class 3
TB515	692380	3930069	Class 4
TB516	692093	3929601	Class 3
TB517	692267	3929837	Class 5
TB518	692285	3929801	Class 3
TB519	692177	3929698	Class 5
TB520	691991	3929338	Class 5
TB521	692955	3930520	Class 3
TB522	692465	3929889	Class 3
TB523	692098	3929384	Class 3
TB524	692301	3929631	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB525	693236	3930302	Class 5
TB526	692965	3930383	Class 4
TB527	692523	3929818	Class 4
TB528	691942	3929072	Class 5
TB529	692369	3928334	Class 3
TB530	693123	3929282	Class 5
TB531	692761	3928779	Class 3
TB532	692730	3928766	Class 2
TB533	692803	3928722	Class 5
TB534	693118	3929125	Class 3
TB535	692581	3928328	Class 5
TB536	693430	3928454	Class 5
TB537	692359	3928006	Class 5
TB538	692576	3928321	Class 5
TB539	692885	3928684	Class 2
TB540	693284	3929138	Class 3
TB541	692843	3928605	Class 3, 2 burrows
TB542	692623	3928243	Class 2
TB543	693025	3928760	Class 5
TB544	693303	3929105	Class 2
TB545	693305	3929084	Class 2
TB546	693176	3928982	Class 3
TB547	692859	3928506	Class 2
TB548	693155	3928843	Class 2
TB549	693199	3928928	Class 4
TB550	693828	3918854	Class 5
TB551	692752	3928265	Class 5
TB552	692690	3928223	Class 2
TB553	692612	3928068	Class 5
TB554	692931	3928457	Class 4
TB555	693078	3928643	Class 5
TB556	693336	3928993	Class 3
TB557	693405	3929018	Class 2
TB558	693205	3928754	Class 3
TB559	693077	3928630	Class 2

Waypoint	Easting	Northing	Class/Comments[a]
TB560	693040	3928482	Class 3
TB561	693116	3928583	Class 4
TB562	693213	3928655	Class 3
TB563	691596	3929193	Class 3
TB564	691683	3929344	Class 3
TB565	691710	3928897	Class 2
TB566	691715	3929137	Class 3
TB567	693489	3928304	Class 2
TB568	693517	3928273	Class 2
TB569	693593	3928230	Class 5
TB570	695024	3927991	Class 3
TB571	695587	3926921	Class 3
TB572	695633	3926165	Class 5
TB573	695355	3926545	Class 3
TB574	693643	3928165	Class 2
TB575	693413	3928746	Class 3
TB576	693413	3928727	Class 2
TB577	693161	3928443	Class 5
TB578	693040	3928241	Class 2
TB579	692819	3927997	Class 3
TB580	693045	3928349	Class 2
TB581	693093	3928403	Class 3
TB582	693373	3928786	Class 3
TB583	693035	3928358	Class 2
TB584	692855	3928123	Class 2
TB585	693272	3928332	Class 5
TB586	693225	3928340	Class 3
TB587	693257	3928335	Class 3
TB588	693434	3928620	Class 2
TB589	693319	3928475	Class 2
TB590	693165	3928298	Class 3
TB591	693383	3928599	Class 3
TB592	691902	3928917	Class 3
TB593	691943	3929291	Class 2
TB594	691845	3929320	Class 2

Waypoint	Easting	Northing	Class/Comments[a]
TB595	693787	3928064	Class 5
TB596	693718	3928092	Class 5
TB597	693654	3928133	Class 2
TB598	693545	3928230	Class 3
TB599	693901	3928043	Class 3
TB600	698070	3928553	Class 3
TB601	695917	3928600	Class 4
TB602	695910	3926105	Class 5
TB603	697432	3926175	Class 3
TB604	697749	3926142	Class 4
TB605	695741	3926015	Class 5
TB606	697248	3926101	Class 5
TB607	699319	3928370	Class 2
TB608	699295	3928257	Class 3, 3 burrows
TB609	697760	3928163	Class 3
TB610	695841	3927326	Class 4
TB611	695922	3927177	Class 4
TB612	695983	3927244	Class 3
TB613	695977	3927267	Class 3
TB614	695981	3927268	Class 2
TB615	695903	3927338	Class 3
TB616	695840	3927465	Class 5
TB617	695700	3926017	Class 3
TB618	696830	3926125	Class 4
TB619	697426	3926088	Class 4
TB620	697351	3926202	Class 5
TB621	696263	3926200	Class 4
TB622	696896	3926251	Class 3
TB623	696122	3926197	Class 5
TB624	696517	3928686	Class 4
TB625	695671	3928153	Class 4
TB626	696109	3928786	Class 4
TB627	696417	3928837	Class 4
TB628	696355	3928873	Class 5
TB629	695400	3927761	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB630	695366	3927431	Class 5
TB631	695621	3927121	Class 2
TB632	695602	3927125	Class 5
TB633	695622	3927109	Class 5
TB634	695340	3927423	Class 3
TB635	695629	3927008	Class 5
TB636	695246	3927424	Class 2
TB637	695317	3927271	Class 5
TB638	696186	3927464	Class 5
TB639	695724	3927274	Class 4
TB640	695551	3927359	Class 5
TB641	695703	3927161	Class 5
TB642	695657	3927238	Class 5
TB643	695819	3926898	Class 5
TB644	695847	3926885	Class 5
TB645	695605	3927244	Class 5
TB646	695393	3927493	Class 5
TB647	696059	3927374	Class 2
TB648	696064	3927374	Class 3
TB649	695982	3927266	Class 3
TB650	695917	3927355	Class 4
TB651Z	693779	3921071	Class 3
TB652Z	695685	3925187	Class 5
TB653Z	693616	3919180	Class 3
TB654Z	693321	3918814	Class 5
TB655Z	693264	3918810	Class 5
TB656Z	693073	3918846	Class 3
TB657Z	692904	3918675	Class 4
TB658Z	693354	3918219	Class 3
TB659Z	693690	3917920	Class 5
TB660Z	691710	3918201	Class 3
TB661Z	691785	3918211	Class 4
TB662Z	691923	3918172	Class 3
TB663Z	692117	3918233	Class 3
TB664Z	691328	3918950	Class 3

Waypoint	Easting	Northing	Class/Comments[a]
TB665Z	690522	3920343	Class 4
TB666Z	691560	3920639	Class 2
TB667Z	691609	3920646	Class 3
TB668Z	691817	3920100	Class 3
TB669Z	692163	3919368	Class 5
TB670Z	691861	3917871	Class 5
TB671Z	692957	3917917	Class 2
TB672Z	693639	3917925	Class 3
TB673Z	693203	3918148	Class 5
TB674Z	692843	3918274	Class 5
TB675Z	692680	3918575	Class 5
TB676Z	692939	3918769	Class 2
TB677Z	692740	3918014	Class 3
TB678Z	693825	3918950	Class 5
TB679Z	693727	3919014	Class 3
TB680Z	693544	3919126	Class 3
TB681Z	693809	3919602	Class 4
TB682Z	695135	3925068	Class 3
TB683Z	695606	3925790	Class 4
TB684Z	691890	3927897	Class 5
TB685Z	693447	3921165	Class 3
TB686Z	693345	3921429	Class 3
TB687Z	692838	3925127	Class 3
TB688Z	692408	3924728	Class 1
TB689Z	693392	3925259	Class 1
TB690Z	693990	3925490	Class 3
TB691Z	698994	3928532	Class 2
TB692Z	698598	3928513	Class 3
TB693Z	698746	3928458	Class 3
TB694Z	693474	3928353	Class 4
TB695Z	693052	3930297	Class 3
TB696Z	693186	3930521	Class 5
TB697Z	694408	3928042	Class 4
TB698Z	694325	3928068	Class 3
TB699Z	693509	3928414	Class 5

Waypoint	Easting	Northing	Class/Comments[a]
TB700Z	693252	3929385	Class 3
TB701Z	691888	3930608	Class 4
TB702Z	691044	3928877	Class 5
TB703Z	693369	3921256	Class 3
TB704Z	694451	3928085	Class 5
TB705Z	693383	3930565	Class 5
TB706Z	693350	3930604	Class 5
TB707Z	691576	3930129	Class 3
TB708Z	691544	3929695	Class 3
TB709Z	690835	3928811	Class 3
TB710Z	691329	3928758	Class 4
TB711Z	697695	3925873	Class 2
TB712Z	696559	3926579	Class 5
TB713Z	695137	3926348	Class 4
TB714Z	695901	3925931	Class 3
TB715Z	696969	3926046	Class 5
TB716Z	696975	3926048	Class 5
TB717Z	697473	3926016	Class 3
TB718Z	696859	3927357	Class 5
TB719Z	696291	3927531	Class 3
TB720Z	695426	3925444	Class 5
TB721Z	694876	3925234	Class 2
TB722Z	693605	3923746	Class 5
TB723Z	697524	3925959	Class 5
TB724Z	696623	3926343	Class 5
TB725Z	696475	3926385	Class 4
TB726Z	696986	3927204	Class 5
TB727Z	695252	3926053	Class 3
TB728Z	695080	3927345	Class 3
TB729Z	695163	3927178	Class 4
TB730Z	695184	3926390	Class 3
TB731Z	694018	3924544	Class 4
TB732Z	693778	3924257	Class 4
TB733Z	693308	3922242	Class 4
TB734Z	692930	3923210	Class 4

Waypoint	Easting	Northing	Class/Comments[a]
TB735Z	691327	3918827	Class 2
TB736Z	692093	3919459	Class 5
TB737Z	693813	3919044	Class 4
TB738I	693331	3919404	Class 5
TB739I	691398	3923258	Class 3
TB740I	693382	3919068	Class 5
TB741I	691758	3920239	Class 2
TB742I	691818	3920353	Class 2
TB743I	695409	3925870	Class 5
TB744I	692009	3930327	Class 5
TB745I	693953	3925134	Class 2
TB746I	690334	3927104	Class 2
TB747I	690860	3926854	Class 5
TB748I	690812	3927213	Class 5
TB749I	690808	3927220	Class 5
TB750I	695020	3928004	Class 3

[a] **Definitions of Burrow Class**

Class 1: Currently active with tortoise or recent tortoise sign.
Class 2: Good condition, definitely tortoise; no recent sign.
Class 3: Deteriorated condition; definitely tortoise.
Class 4: Deteriorated condition; possibly tortoise.
Class 5: Good condition, possibly tortoise.

Table 5: Miscellaneous Tortoise Sign

Waypoint	Easting	Northing	Comments
TMS01	690658	3920779	Bones
TMS02	690612	3920572	Bones
TMS03	690624	3920544	Bones
TMS04	690680	3920068	Bones
TMS05	691290	3920623	Bones
TMS06	691010	3920299	Bones
TMS07	692521	3928612	Bones
TMS08	693425	3918021	Bones
TMS09	692748	3929215	Bones
TMS10	693162	3927785	Bones
TMS11	693671	3923507	Bones
TMS12	693371	3929055	Bones
TMS13	693308	3928743	Bones
TMS14	695524	3926574	Bones
TMS15	691278	3920492	Scute
TMS16	691253	3920465	Scute
TMS17	691050	3920224	Scute
TMS18Z	697051	3928776	Tortoise plastron bone
TMS19Z	693392	3919191	Bones
TMS20Z	699376	3928552	Egg shell fragment
TMS21Z	691455	3918621	Courtship ring
TMS22Z	695876	3929002	Eggshell

Appendix C: Photographs

Photo 1. Example of low elevation, high density tortoise area.

Photo 2. Second example of low elevation, high density tortoise area.

Photo 3. Example of high elevation, low density tortoise habitat.

Photo 4. Second example of high elevation, low density tortoise habitat.

Photo 5. ~40 mcl hatchling tortoise encountered during transects.

Photo 6. ~295 mcl adult tortoise encountered during transects.

Photo 7. Desert tortoise scat, class 1.

Photo 8. Desert tortoise scat, class 2.

Photo 9. Desert tortoise scat, class 3.

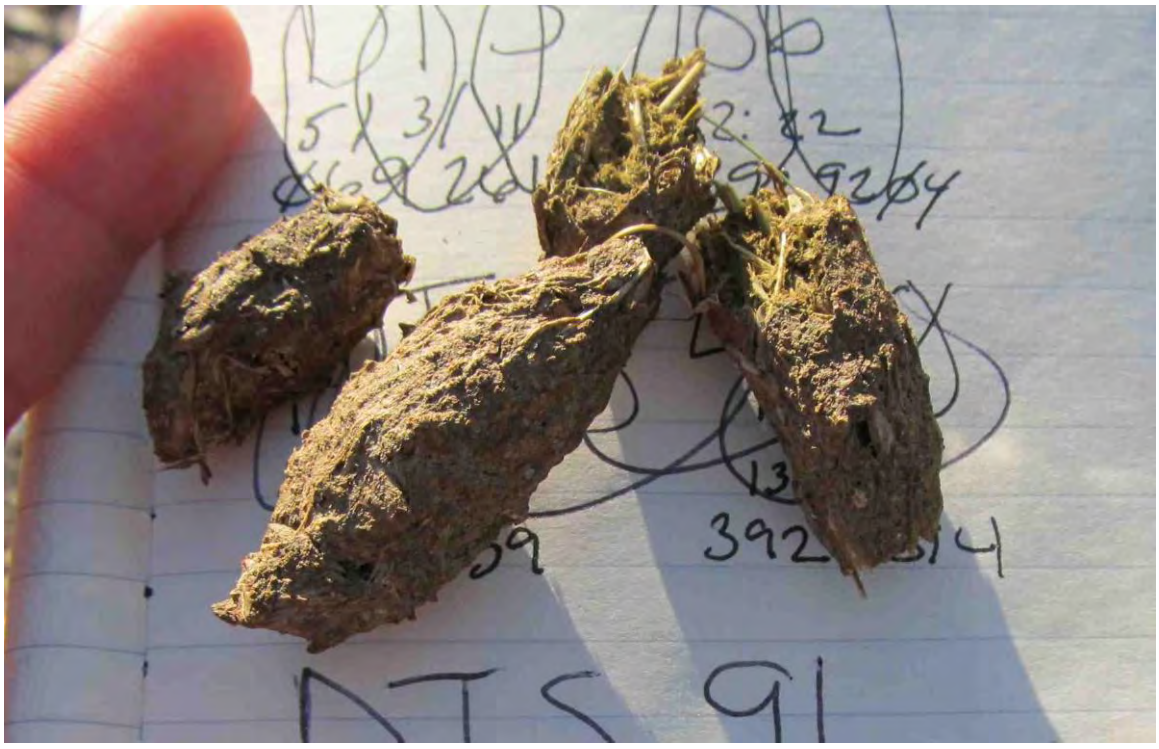

Photo 10. Desert tortoise scat, class 4.

Photo 11. Desert tortoise scat, class 5.

Photo 12. Desert tortoise carcass, class 1.

Photo 13. Desert tortoise carcass, class 2.

Photo 14. Desert tortoise carcass, class 3.

Photo 15. Desert tortoise carcass, class 4.

Photo 16. Desert tortoise carcass, class 5.

Photo 17. Desert tortoise burrow, class 1, tortoise inside.

Photo 18. Desert tortoise burrow, class 2.

Photo 19. Desert tortoise burrow, class 3.

Photo 20. Desert tortoise burrow, class 4.

Photo 21. Desert tortoise burrow, class 5.