

1615 Murray Canyon Road, Suite 1000 San Diego, CA 92108 Phone: (619) 294-9400

ione: (619) 294-9400 Fax: (619) 293-7920

#### LETTER OF TRANSMITTAL

TO: Docket Unit

DATE: November 12, 2009

PROJECT: SES Solar One

### **DOCKET**

08-AFC-13

**DATE** NOV 12 2009

**RECD.** NOV 13 2009

#### Enclosed/Attached please find the following:

•	The Applicant'	Responses	to CURE	Data Requests	s Set 3
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For:	Review and Comment Signature and Return Appropriate Action	☐ As Requested ☐ For Your Use	
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#### Remarks:

The materials included in this submittal are listed below:

- 12 hard copies of the Applicant's Responses to CURE Data Requests Set 3
- 12 electronic copies of the Applicant's Responses to CURE Data Requests Set 3
- 1 original, signed Proof of Services

If you have any questions or need any further information, please feel free to call. Thank you!

Kindly,

Corinne Lytle

Assistant Project Manager



#### November 13, 2009

Mr. Christopher Meyer CEC Project Manager

Attn: Docket No. 08-AFC-13 California Energy Commission

1516 Ninth Street

Sacramento, CA 95814-5512

Mr. Jim Stobaugh

**BLM Project Manager** 

Attn: Docket No. 08-AFC-13
Bureau of Land Management

P.O. Box 12000 Reno, NV 89520

RE:

SES Solar One Project

Applicant's Responses to CURE Data Requests 276-380

**CURE Data Requests Set 3** 

Dear Mr. Meyer and Mr. Stobaugh:

Tessera Solar hereby submits the Applicant's responses to CURE Data Requests 276-380 (Data Requests Set 3). I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge.

Sincerely,

Camille Champion

Project Manager



TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 276: Has the Applicant considered using helium or nitrogen gas

instead of hydrogen gas as the working fluid in the Project's Stirling engines? If yes, why was hydrogen gas chosen over

helium/nitrogen?

**Response:** Other gases have been considered for use in the SunCatcher's Stirling engine.

Hydrogen was chosen as the most efficient gas at transferring energy inside a Stirling engine. This helps the SunCatcher use the least amount of materials to

produce electricity.

Hydrogen also has environmental benefits over Helium. Helium is a rare non-renewable resource on Earth. It is a strategic material isolated from a small number of natural gas wells in the Great Plains. The world's largest helium reserves in Amarillo, Texas are expected to run out soon.

Hydrogen is one of the most abundant materials on earth. It is contained in all water. We will be using the SunCatcher's renewable electricity to split the Hydrogen from the water on-site.

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 277: What are the technical impediments (if any) to using helium as

the working fluid in the Project's Stirling engines instead of

hydrogen gas?

**Response:** Using Helium would require redesign of the entire Power Conversion Unit (PCU).

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 278: What are the benefits and/or drawbacks of using hydrogen gas

as the working fluid in the Project's Stirling engines instead of

the inherently safer helium?

**Response:** Benefits include the following:

 No fuel is needed to transport heavy steel cylinders containing Helium from the Great Plains.

- Using Hydrogen allows increased system efficiency so fewer SunCatchers are needed to generate the same electricity, minimizing the environmental impact and improving Project economics and therefore lowering price to the ultimate consumer, the ratepayer.
- Because Hydrogen is a plentiful renewable resource, the risk of commodity fluctuations and securing a consistent supply of a rare nonrenewable resource is mitigated.

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 279: Has the type of distribution system proposed for the Project that

would be used to deliver hydrogen gas to the SunCatcher Power Conversion Units ("PCUs") been used before? If yes, have there

been any reported accidents?

Response: The distribution system is similar to that used to convey natural gas to many

homes in the US. It is well documented that accidents are extremely rare. There are many examples of piping systems that supply hydrogen to facilities such as refineries and power plants. Many power plants use hydrogen gas to

cool their electrical generators.

SES has installed a hydrogen supply system at the Sandia Model Power Plant in New Mexico. There have been no reported accidents at Sandia.

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 280: The Applicant indicated that each SunCatcher PCUs is

estimated to lose about 200 standard cubic feet ("scf") of hydrogen gas per year. Does this estimate include the loss of hydrogen gas from the distribution system? If not, how much loss of hydrogen gas is expected from the distribution system?

Response: The estimate includes leakage in the distribution system. Continuous lengths of

tubing are used to minimize the number of fittings and the amount of leakage.

No fittings will be used underground.

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 281: How does the leak rate of hydrogen gas through the proposed

distribution system compare with using compressed hydrogen

gas bottles?

Response: Most of the hydrogen leakage is from the engine. The expected leakage from

pressurized bottles or the hydrogen system is relatively small so the overall

leakage will be the same for either bottles or the distribution system.

TECHNICAL AREA: HAZARDOUS MATERIAL HANDLING

Data Request 282: Please provide any modeling and risk analysis studies that have

been performed to evaluate the potential impacts of transporting

hydrogen for the Project.

Response: No Hydrogen gas will be transported on the roads for this Project. The

Hydrogen will be received at the electrolyzer in the form of water through the on-

site water distribution system.

TECHNICAL AREA: PROJECT SAFETY DESIGN

Data Request 283: Please provide a copy of any written communication between

the fire station and the applicant confirming that the fire

department will provide the primary fire services.

**Response:** Tetra Tech Telephone Conversation Record:

Call To: Mike Horton Date: 30 October 2008
Association: San Bernardino County Fire Title: Deputy Fire Marshal

Department

Phone #: (909) 386-8405 Email: mhorton@sbcfire.org

Message Taken By: John Crookston

Subject: Jurisdiction and Capacity of Fire Department

I spoke with Mike Horton (Deputy Fire Marshal for the San Bernardino County Fire Department) regarding the capacities of the local fire departments near the Project site. He stated that fire response would originate from the County Fire Department located in Harvard and that the response time would be approximately 40 minutes. He said that the station was staffed with a full time Captain and two paid-call firefighters daily. Equipment at the fire station includes a type 1 engine, a type 3 engine, and a brush patrol. In regards to what situation the fire department could handle, he stated that the county fire resources would respond to a call and then call on additional assistance and resources as the situation warrants.

In regards to hazardous materials, both the City of Barstow Haz-Mat and the County of San Bernardino Haz-Mat units would respond to calls emanating from the Project site. This is because the response to hazardous waste is a county-wide effort which falls under the San Bernardino County Intra-agency Hazardous Materials Response Team. This team consists of approximately 150 members and is a Level A response team, which is capable of handling all types of chemical, biological, radiological, and nuclear responses. Due to restrictions from the Department of Homeland Security, this team is not able to divulge their exact resources to the public.

Response times from the City of Barstow Haz-Mat unit would be approximately 35 minutes. The closest County Haz-Mat unit is located at Station 322 in Adelanto and response time to the Project site would be approximately 90 minutes.

In regards to impacts to the Fire Departments resources as a result of the Solar One Project, Mike stated that "We would definitely look at the need to add additional full time personnel at our existing stations".

San Bernardino County Fire Department 157 W 5th Street, 2nd Floor San Bernardino, CA 92415-1012

TECHNICAL AREA: PROJECT SAFETY DESIGN

Data Request 284: Will the limited resources of the Harvard Fire Station meet the

emergency response needs of this project? Will an onsite

emergency response team be established?

**Response:** An EMT trained person will be on the Project site for first response.

The Harvard Station 46 is a County manned station on the northern part of Newberry Springs, along the I-15 at Harvard Road. They would be considered the first responder. However, there is mutual cooperation between that station, the Marine Corp Logistical Base and the Newberry Springs Community Services District Fire Station located at the Newberry Springs Community Center. Depending upon the emergency any of them could be sent to the Project site – and all of them could be sent if needed.

Harvard Station 46 has a full time captain at the station and four part time County fire fighters at the station all considered as well trained for light to heavy capability emergencies. Their equipment consists of one municipal engine, a type #1, a brush patrol, type #6 and a brush engine, a type #3. Their medical response would be with an Emergency Medical Technician.

The Newberry Springs CSD Fire has a staff of four personnel during the day and six to nine at night. All of the personnel are local, professionally trained and know the area very well. Their equipment consists of one municipal engine, type #1, two water tenders of 2,200 and 4,000 gallons and a brush patrol type #6. Recently the CSD approved the purchase of new 4000 gallon water tender. Their medical response would be with an Emergency Medical Technician. However they also have a Rescue Support Trailer and the equipment to respond to heavy capability emergencies.

Currently their response time to be on the Calico site for a light emergency would be only 23 minutes and for a heavy emergency would be 26 minutes – since the response would be only 14 miles away.

TECHNICAL AREA: PROJECT SAFETY DESIGN

Data Request 285: Is the applicant considering any other emergency response

service that would have a shorter response time?

**Response:** An EMT trained person will be on the Project site for first response. In addition

to the Harvard Fire Station and the Newberry Springs Community Services District Fire, the Marine Corps Logistical Base has for the past eight years also responded to emergencies outside of their base. They have two fully equipped stations with the largest equipment and best trained personnel. Each station will have six to nine persons per shift at all times, 24 hours per day; 7 days per week; 365 days per year. The full staff is approximately 40 to 50 persons for both stations who are considered career emergency responders. Their equipment consists of two engines and a fully heavy rescue unit with the ability to respond to a situation in even confined spaces. Their pumper is equipped with an aerial unit. Each engine is staffed with a full paramedic and two emergency life support (ELS) personnel at all times. Their response time to

Calico would be no more than 40 minutes.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 286: Have the soils on the Project site been tested for contamination

from mining?

Response: As was discussed in the Applicant's response to CEC and BLM Data Request

90, based on visual observations of site conditions, the limited size of the former operation and the low likelihood of health and safety risk in the context of construction or site workers, no further action, including testing soils, is

recommended at this time.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 287: Will protective measures be taken to ensure Project construction

workers and operational employees will not be exposed to

onsite soil contamination?

Response: The Project will comply with all laws, ordinances, and regulations. Section 5.17

of the AFC contains the Project's best management practices for worker safety.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 288: Has Tessera Solar entered into a contract to provide the primary

water supply for the Solar One project? If so, please provide a

copy of the contract.

**Response:** Tessera Solar has not done so to date.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 289: Is Tessera seeking to export water to outside of the Mojave

Basin for use in the Solar One Project? If so, please explain how this complies with the Judgment of the Riverside County

Superior Court.

Response: Tessera Solar may enter into a Third Party Agreement with BNSF which

is the successor to the Atchison Topeka and Santa Fe Railroad Company and is a Stipulating Party to the Judgment After Trial. BNSF exported water from MWA boundary between 1986 and 1990, the base period for the Judgment and therefore has had the right of export, which per Mojave Water Agency continues.

TECHNICAL AREA: SOIL AND WATER RESOURCES

**Data Request 290:** If BNSF water rights are transferred to Tessera, please explain:

i. What was the previous use of the water by BNSF prior to

the transfer?

ii. What subregion the water will be transferred from?

**Response:** i. BNSF used the water for their industrial uses.

ii. Tessera Solar would like to enter into a Third Party Agreement with

BNSF Railway Company for their possible export from the Centro

sub-region or the Baja sub-region.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 291: Please explain whether Tessera intends to seek approval of any

water transfers outside of the basin from the Superior Court.

Response: Tessera Solar will adhere to the rulings of the Mojave Watermaster; and if

Watermaster requests Superior Court approval, the Stipulating Party as

directed will file the necessary petitions.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 292: Please provide any documents in Tessera's possession

concerning Tessera's attempts to obtain recycled water from

BNSF for the Solar One project.

Response: Please see attached letter from BNSF to Mojave Water Agency, provided as

attachment SWR-1.



<b>BNSF Railway Company</b>	
P.O. Box 961050	
Fort Worth, TX 76161-0050	
2500 Lou Menk Drive, AOB-3	
Fort Worth, TX 76131-2830	
Tel 817/352-6461	
Fax 817/352-7797	
Email blaine.bilderback@bnsf.com	

October 12, 2009

Valerie Wiegenstein Watermaster Services Manager Mojave Basin Area Watermaster c/o Mojave Water Agency 22450 Headquarters Drive Apple Valley, CA 92307

#### Dear Watermaster;

BNSF Railway Company, as the successor to the Atchison Topeka and Santa Fe Railroad Company, is a Stipulating Party to the Judgment After Trial, January 10, 1996, Mojave Basin Area Adjudication, City of Barstow, et al v. City of Adelanto, et al, Riverside County Superior Court Case No. 208568 (the "Judgment"). Pursuant to the Judgment, BNSF was adjudicated 120 acre-feet of Base Annual Production ("BAP") in the Centro Subarea in connection with its Barstow rail yard.

Tessera Solar North America ("Tessera") has filed an application, being processed by the California Energy Commission, to permit an 850-megawatt solar generation project, Calico (Solar One), which will supply energy to Southern California Edison and will be located just outside the eastern boundary of the Mojave Basin Area near the area of Hector Road. A location map is attached for your ease of reference. According to Tessera, its solar technology power conversion process consumes no water, as is required by other solar thermal generating platforms, and the only water consumed during its operational phase is for washing the mirrors ("operational water"). Tessera has requested, for its private use, that BNSF supply up to 40 acre-feet of operational water to the Solar One project, on an annual basis, and 136 acre-feet of construction water annually in the first four years. BNSF has water available from its Centro Subarea Free Production Allowance which is currently set at 96 acre-feet per year. Since the Tessera facility will be located outside the boundary of the adjudicated basin, BNSF will be required to export the water outside the basin.

This letter constitutes a conditional notice to the Watermaster of the proposed change of use (export out of the Mojave Basin Area) as required by Section 15 of the Judgment. BNSF recognizes that the proposed export of water outside the basin will require Court approval pursuant to Section 17 of the Judgment. BNSF and Tessera are in the process of attempting to negotiate an



agreement. If and when an agreement is reached, BNSF will file its motion with the Court requesting approval for the export of the water.

As requested in the Watermaster memorandum dated September 23, 2009, the following is BNSF's current understanding of the proposed operational agreement with Tessera, based on our discussions to date:

- 1. BNSF, at its Barstow rail yard, will provide up to 40 acre-feet a year of operational water to Tessera by either pumping water from its Centro Subarea allocation, subject to the water's availability and BNSF's needs, or by recycling its grey water.
- 2. BNSF will, in coordination with Tessera and the Watermaster, attempt to facilitate the annual delivery of 136 acre-feet of construction water from the Centro Subarea, to Tessera, in the first four years of the project.
- 3. The water will be transported by truck or rail to Tessera's project site.
- 4. Tessera will use the operational water to wash its mirrors. Treatment, reuse or discharge of the water has not yet been determined.
- 5. As discussed in correspondence from Tessera to the Watermaster dated concurrent with this letter, Tessera Solar on behalf of SES Solar One LLC is offering, unrelated to any of BNSF's water interests in the Mojave Basin Area, to purchase permanent water rights in the Baja Subarea and subsequently offer that BAP (Base Annual Production) for permanent retirement to assist the Watermaster with the water level conditions in the Baja Subarea. Tessera Solar is willing to retire 400 acre-feet.

BNSF reiterates this is a conditional notice of a proposed change in use of all or a portion of BNSF's Centro Subarea allocation of water. The change in use is to be limited by the terms and to the duration of the contract currently being negotiated between BNSF and Tessera. This notice is conditioned upon the parties reaching a mutually satisfactory agreement with respect to, among other BNSF concerns, the amount of Centro Subarea water available during the contract term and the ability of BNSF to meet its own ongoing and evolving operational needs. The change in use will not be final unless and until the court approves the export of the water.

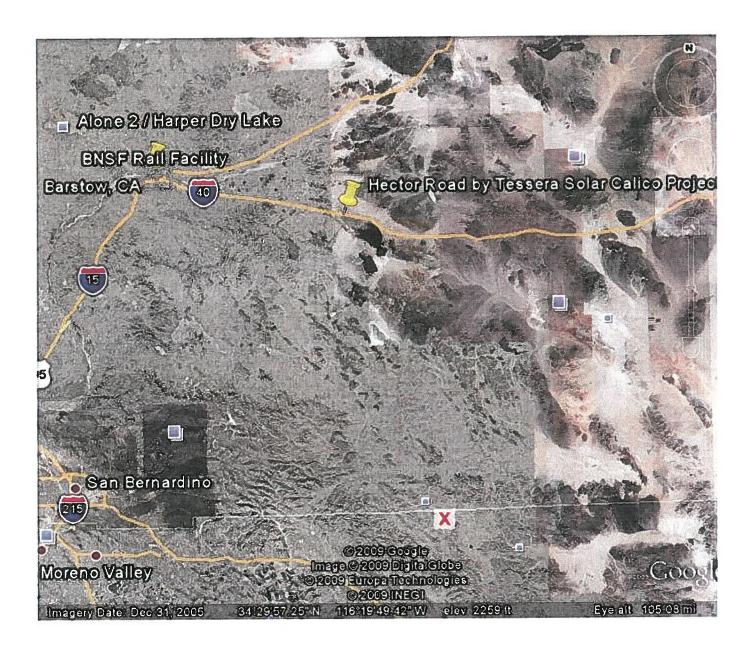
Thank you for time and consideration. Please feel free to contact me at 817-352-6461 with any questions.

Blaine Bilderback, BNSF

Sinterely,

CC: Kirby Brill, Executive Officer, Mojave Watermaster

#### **Location Map for Tessera Solar Calico Project**





October 13, 2009

Valerie Wiegenstein, Watermaster Services Manager Mojave Basin Area Watermaster c/o Mojave Water Agency 22450 Headquarters Drive Apple Valley, CA 92307

Dear Watermaster,

In March of 2009 SES Solar One LLC, a Delaware Limited Liability Company (a subsidiary of Tessera Solar North America, Inc.) filed a request with the Superior Court of the State of California for the County of Riverside to become a Stipulating Party to the Judgment After Trial, January 10, 1996, Mojave Basin Area Adjudication, City of Barstow, et al v. City of Adelanto, et al, Riverside County Superior Court Case No. 208568. As a future party to the Judgment, SES Solar One LLC is requesting consideration of the following in conjunction with the conditional notice from BNSF to the Watermaster of BNSF's proposed Change of Use. Please present this letter at the meeting scheduled for October 28, 2009.

Tessera Solar on behalf of SES Solar One LLC, is willing to purchase permanent water rights in the Baja Subarea, in the amount of 400 acre-feet, and subsequently offer that BAP (Base Annual Production) for permanent retirement to help the Watermaster with the water level conditions in the Baja Subarea and to offset any perceived impacts to the Baja Subarea. This offer for assistance to the Baja Subarea is made in conjunction with the Request for Change of Use proposed by BNSF Railway, which also provides sufficient mitigation to offset impacts to the Centro Subarea.

Tessera Solar project's technology and design are shown to offer a greatly reduced water usage over other types of concentrating solar power technology, while bringing as many as 500 onsite construction jobs for a period of three to five years and as many as 150 onsite permanent operations jobs for the life cycle of the project (estimated to be 30 years) to this economically challenged area. Please consider these facts when rendering a final decision for the small water supply requested.

Thank you for your consideration of the above alternatives. Please contact any of the participants from Tessera Solar for any additional information that is needed for this decision. A contact list is attached for your convenience.

Sincerely,

Felicia Bellows,
Vice President of Development
CC: Kirby Brill, General Manager, Mojave Water Agency

#### Tessera Solar:

Felicia Bellows

602-535-3576

Camille Champion

602-957-1818

Consultant:

Irene M. James

909-702-0673

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 293: Please describe the location and process that generates the

BNSF recycled water.

Response: The recycled water is at the Barstow BNSF Rail yard at their Pre-Treatment

Facility.

TECHNICAL AREA: SOIL AND WATER RESOURCES

Data Request 294: If Tessera is still proposing to use BNSF recycled water, please

describe whether this water has been tested and what the primary constituents of the water are. Please also describe the type of treatment the water would undergo before and after

transport to the Solar One Project site.

Response: The BNSF Facility process is called "Primary Treatment". The water is not

tested before the processing which cleans the water by filters and polishing. It is clear when done, but not drinkable. It is not sterilized or chlorinated and still has some particulates. The water is considered industrial waste water and when the primary treatment is completed it can be used for other industrial uses. The Solar One Project will have an onsite water treatment plant which will likely filter

the water once more before it is used to clean the SunCatchers.

TECHNICAL AREA: SOIL AND WATER RESOURCES

**Data Request 295:** What is the BNSF recycled water currently used for?

Response: General industrial purposes as necessary for their maintenance facility and rail

transport operations.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 296: What is the "mean time between failure" (MTBF) for the design

that Felicia Bellows was discussing when she described 10

operating units?

Response: It takes a significant amount of time to determine a relevant MTBF. Because of

the new design that was implemented, the MTBF for the improved SunCatchers

are currently under evaluation to determine a baseline MTBF.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 297: What will the MTBF be for the new units? What evidence is this

based upon?

Response: The MTBF will be determined based on existing units in Sandia as well as data

from the 1.5 MW Maricopa Solar plant in Peoria, Arizona. SES has set a target to exceed 80% confidence in the MTBF that is the industry benchmark for other

engine applications.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 298: Will the redesigned SunCatcher units be used at the Solar One

Project site?

**Response:** The redesigned SunCatcher units will be used for the Solar One Project.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 299: How many hours of field testing have the redesigned units

undergone?

Response: The improved SunCatchers have been tied to the grid at Sandia for 4 months. In

addition, several PCUs have been undergoing accelerated life testing at the

McLaren engine test facility in Michigan.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 300: What data does the applicant rely upon to validate that the

SunCatcher technology is ready for commercial deployment at

industrial scale?

Response: The SunCatcher has been developed, tested and improved over more than 25

years. SES has an extensive validation program which tests all parts of the SunCatcher system. Part of this validation program is the testing we perform on the 250 KW Model Power Plant at Sandia National Laboratories and on the 1.5 MW Maricopa Solar Plant in Peoria, AZ. The SunCatcher power plants are modular based on 1.5 MW units so this data is applicable to larger scale power

plants.

In addition to these sites, several PCUs have been undergoing accelerated life testing at the McLaren engine test facility in Michigan.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 301: How long will the applicant test the 1.5 MW demonstration units

in Peoria, Arizona before being able to assess the SunCatcher

grid-tied technology is reliable on a commercial scale?

**Response:** The reliability of the Maricopa Solar Plant will be assessed on a continual basis.

SES believes that the technology is already reliable to achieve commercial

deployment given the experience at Sandia National Labs.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 302: What factors will the applicant use to evaluate whether the

demonstration units in Peoria are successful?

Response: The SunCatcher system is designed to provide economical, environmentally

sensitive, utility scale solar power. We will evaluate the economics, the environmental impact, and the production of electric power (power curve) to

measure its success in addition to the reliability and availability.

TECHNICAL AREA: PROJECT RELIABILITY

Data Request 303: If the redesigned SunCatcher technology will potentially be

installed on the Project site, please provide documentation of

any accelerated life tests that are planned or underway.

Response: Accelerated life testing is being performed at subsystem manufacturers, at

independent test laboratories, and at Sandia National Laboratories. Individual components complete SunCatchers, and entire fields of SunCatchers systems

are tested under many accelerated test conditions.

**TECHNICAL AREA: TRANSMISSION** 

**Data Request 304:** Please clarify whether the Project will be delayed because 2015

is the earliest possible interconnection date. How will this impact

the Project schedule for Phase 1 of the Project?

Response: Response: The plan is for SCE to install the generation interconnection at the

Pisgah substation and minor upgrades which will allow 275 MW of power from SES Solar One to come online beginning sometime in 2012. SES Solar One will build up to 275 MW in 2012 and then will put construction on hold until SCE completes the full upgrade of the transmission system. SES Solar One estimates this to be in late 2013. Construction of Solar One would therefore start up again as soon as SCE completes the upgrades so that the Project can be

completed by mid to late 2015.

**TECHNICAL AREA: TRANSMISSION** 

Data Request 305: How will the interconnect delay impact the Project schedule for

Phase 2 of the Project?

**Response:** See response above.

**TECHNICAL AREA: TRANSMISSION** 

Data Request 306: Is the Applicant prepared to provide funding for the \$389-421

million cost of the required interconnection upgrades?

Response: SES Solar One is in discussions with SCE on this point. While it is currently

expected that SES Solar One will fund the generation interconnection and minor 275 MW upgrades and SCE will fund the remainder of the full upgrade to the transmission system, the final distribution of the costs will be determined by the California Public Utilities Commission in their proceeding on the transmission

upgrade.

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**TECHNICAL AREA: TRANSMISSION** 

Data Request 307: Is the Applicant prepared to fund any additional costs that may

be part of subsequent interconnection cost estimates or actual

costs?

**Response:** See response above.

**TECHNICAL AREA: TRANSMISSION** 

Data Request 308: Please provide a copy of the communication from SES to

CAISO in response to the March 2, 2006 letter.

Response: The March 2, 2006 letter from CAISO concerns the transmission for the SES

Solar Two Project with SDG&E.

**TECHNICAL AREA: TRANSMISSION** 

Data Request 309: Does the applicant intend to analyze and mitigate the

environmental impacts associated with the transmission upgrades needed to mitigate the overload effects of the full SES

One Project?

Response: The Applicant submitted an overall assessment of the environmental impacts

associated with the transmission upgrade in Appendix EE of the AFC. A detailed assessment of the environmental impacts and requirements for mitigation associated with the transmission time upgrade is expected to be included in the

CPCN application that will be submitted by SCE to the CPUC.

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TECHNICAL AREA: LAND USE

Data Request 310: Please describe how much land on the Solar One site is

protected pursuant to the LWCF Act.

Response: The onsite acreages for the LWCF acquisitions within the Solar One Project area

include a total of 1287.58 Acres broken into two zones as follows:

• CA Wilderness Catellus (CACA041319) 53.78 Ac

• CA Wilderness (CACA043419) 1123.8 Ac

TECHNICAL AREA: LAND USE

Data Request 311: Please describe whether Tessera Solar intends to convert these

lands to non-recreation uses. If so, please elaborate on what steps Tessera has taken or plans to take to convert this land.

Response: Tessera Solar intends to convert these lands for use as a solar energy

generation facility. This will involve the construction and operation of Suncatchers and ancillary facilities on portions of these lands. Site access will be

controlled.

Tessera Solar has filed an AFC with the California Energy Commission and a ROW application with the BLM for the permission to convert these lands to generate renewable energy. The Project is currently in the discovery phase of the joint NEPA/CEQA process. As the Project moves through regulatory review, the Applicant will comply with agency requests pertaining to the conversion of these lands.

TECHNICAL AREA: LAND USE

Data Request 312: Please describe any communications with government agencies

concerning the conversion of the LWCF lands. Please enclose

any such written communications.

Response: It is the Applicant's understanding that the conversion of LWCF lands will be

analyzed as the Project moves through regulatory review. Please see attachment LU-1 for a compilation of communications with government

agencies to date.



# United States Department of the Interior

#### BUREAU OF LAND MANAGEMENT

California Desert District Office 22835 Calle San Juan De Los Lagos Moreno Valley, CA 92553

May 6, 2009

In Reply Refer To: 2140/2802 (P) CACA-049537 (CA-610)

Camille Champion Project Manager Stirling Energy Systems – Solar One Biltmore Lakes Corporate Center 2920 East Camelback Road, Suite 150 Phoenix, AZ 85016

Dear Mr. Egan:

As part of our processing of your application (Stirling Energy System's Solar One, Phase One, CACA-49537) for a right-of-way grant for siting and developing a large-scale solar facility on public lands administered by the Bureau of Land Management, we have identified important information which affects a portion of your application.

Approximately 88 acres in Section 17, Township 8 North, Range 6 East (San Bernardino Meridian) (as shown on enclosed map) includes acquired land subject to a donation agreement subject to the following terms:

"The United States, on behalf of itself and its successors, assigns and contractors, if any, will not allow or permit uses on the Fee Land that are not consistent with the terms of the California Desert Conservation Area Plan, and all laws applicable to the United States. The United States agrees that the fee land and all estates, rights, privileges, and interests that are part of or associated with the Fee Land shall be conserved and used for the conservation of the natural, cultural and aesthetic values associated with the Fee Land in a manner consistent with the California Desert Conservation Area Plan and all laws applicable to the United States"

The BLM's right-of-way regulations (43 CFR 2801.2) state that BLM will grant right-of-way in a manner that "(A) Protects the natural resources associated with public lands and adjacent lands, whether private or administered by a government entity." Additionally, BLM's regulations (43 CFR 2804.26 [a][1]) provide guidance on the circumstances for possible denial of a right-of-way, including if the proposed use would not be consistent with the purposes for which the lands described in the application are managed.

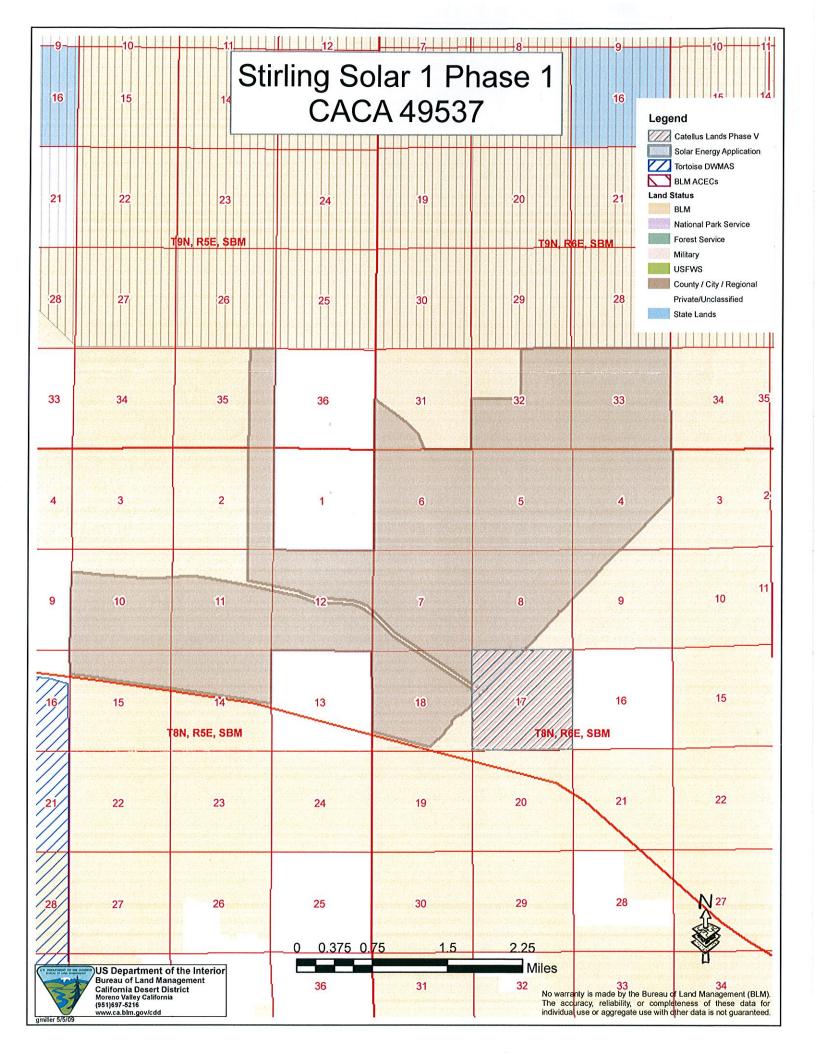
Within 30 days of receipt of this letter, you are to provide, in accordance to 43 CFR 2804.25, additional information demonstrating that you can construct and operate your project in a manner consistent with the values of the lands donated for the required environmental review process. This information is necessary to fully evaluate your application.

If you have any questions, please contact Greg Miller (951-697-5216) in our Renewable Energy Coordinating Office.

Sincerely,

Steven J. Borchard District Manager

Enclosures: Map





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT California Desert District Office 22835 Calle San Juan De Los Lagos Moreno Valley CA 92553-9046

May 21, 2009

In Reply Refer To: 2140/2802 (P) CACA-049537 CACA-049540 (CA-610)

Camille Champion Project Manager SES Solar Three, LLC SES Solar Six, LLC Biltmore Lakes Corporate Center 2920 East Camelback Road, Suite 150 Phoenix, AZ 85016

Dear Ms. Champion:

As part of our processing of your applications (Stirling Energy System's Solar One, Phase One, CACA-49537 and Solar Six CACA-49540) for right-of-way grants for siting and developing large-scale solar facilities on public lands administered by the Bureau of Land Management, we have identified important information which affects a portion of your application.

Approximately 1,718 acres in Section 33, Township 9 North, Range 6 East; Sections 5 and 9, Township 8 North, Range 6 East (which includes a temporary access road); and, Sections 17 and 29, Township 8 North, Range 8 East (San Bernardino Meridian) (as shown on enclosed maps) includes acquired lands. The map for Solar One, Phase One indicates the serial number as CACA-047702. The correct serial number should be CACA-049537.

The BLM's right-of-way regulations (43 CFR 2801.2) state that BLM will grant right-of-way in a manner that "(A) Protects the natural resources associated with public lands and adjacent lands, whether private or administered by a government entity." Additionally, BLM's regulations (43 CFR 2804.26 [a][1]) provide guidance on the circumstances for possible denial of a right-of-way, including if the proposed use would not be consistent with the purposes for which the lands described in the application are managed.

Within 30 days of receipt of this letter, you are to provide, in accordance to 43 CFR 2804.25, additional information demonstrating that you can construct and operate your

project in a manner consistent with the values of the lands acquired for the required environmental review process. This information is necessary to fully evaluate your application.

If you have any questions, please contact Greg Miller (951-697-5216) in our Renewable Energy Coordinating Office.

Sincerely,

Steven J. Borchard District Manager

Enclosures: Map





June 3, 2009

Mr. Steven Borchard California Desert District Office 22835 Calle San Juan De Los Lagos Moreno Valley, CA 92553-9046

Dear Mr. Borchard

We are in receipt of your letter dated May 21, 2009 in which you explain that approximately 1,718 acres of the Stirling Energy Systems (SES) Solar One-Phase One Project includes acquired lands. You have requested that we provide additional information demonstrating that the project can be constructed and operated in a manner consistent with the values of the lands acquired as part of the environmental review process. We received a similar letter from Greg Miller of your office regarding an additional 88 acres, to which we responded on May 27, 2009 (attached).

We are pleased to offer the following response and look forward to working with you on this.

The Solar One Project Site is on approximately 8,230-acres, located approximately 37 miles east of Barstow. The project is adjacent to an interstate highway, a railroad, and several transmission lines. The SES Solar One project will generate clean, renewable, solar-powered electricity using a dish-stirling technology. This technology has numerous environmental advantages, including the lowest water use of any electric generating technology, minimal grading and trenching requirements, no excavation for foundations, and the highest sun-to-grid efficiency of any solar generating technology, which minimizes both cost and land use.

We became aware in March of the Mother Road National Monument proposal (Monument Proposal). As indicated on the map that we reviewed at that time (marked version 7.1), the Solar One project was on the very edge of the Monument Proposal. The western boundary of the Monument Proposal ran through the eastern part of the Solar One project. Approximately five sections, roughly 3000 acres, of the Solar One proposal were within the boundary of the Monument Proposal at that time. Of those five sections, parts of four sections are former Catellus lands, totaling about 1,700 acres.

We have worked since March with Senator Feinstein's office and with the Wildlands Conservancy, the sponsors of the Monument Proposal and the donors of much of the funds used to acquire the lands in question, to modify the Monument Proposal to eliminate impacts on this Project. As a result of these efforts, we understand that the current version of the Monument Proposal has been modified, so that it does <u>not</u> encompass lands that are part of the Solar One project. In addition, the Executive Director of the Wildlands Conservancy has stated publicly

June 3, 2009 Mr. Steven Borchard Page 2

that his organization does not oppose the Solar One project, despite the presence of some Catellus lands within the project.

For the reasons set forth below, we believe that it the Solar One project is consistent with the applicable values and regulations. In sum:

- The technology to be used for the Solar One project has numerous environmental advantages, including the lowest water use of any electric generating technology, minimal grading and trenching requirements, no excavation for foundations, and the highest sun-to-grid efficiency of any solar generating technology, which minimizes both cost and land use.
- Impacts of the project will be mitigated in a manner consistent with the CDCA Plan.
- Solar One is one of a handful of solar projects that have advanced into the environmental review process and can commence construction before the end of 2010. Energy from the project could be on-line as soon as 2011. Delivery of this energy will assist in protecting our natural resources by reducing the emissions of greenhouse gases used for electricity production.
- The Catellus lands within the Solar One project boundary are at the western edge of the acquired lands.
- SES worked closely with BLM to identify and select the Solar One site and has relied on that prior work in spending millions of dollars over the past four years to develop the project.
- The donors of the majority of the funds used to acquire the land have stated publicly that they do not oppose the Solar One project.

SES/Tessera has attempted to act responsibly in choosing the Solar One site. SES has proceeded in good faith and in reliance on both discussions with the BLM and on the available legal information, and has spent in excess of \$6 million to date to develop the Solar One project on a site that does not meet existing wilderness criteria and that has minimal environmental impacts in comparison to other lands in the vicinity. At no time prior to March 2009 did we obtain notice of potential restrictions on the availability of this land for development of renewable energy. A major change to the project at this point would threaten the ability of the project to provide clean, renewable energy to California and to help Southern California Edison (SCE) and the state of California meet the mandates of the California Renewable Portfolio Standard (RPS) Program and the California Global Warming Solutions Act, and to qualify for funding made available through the American Recovery and Reinvestment Act.

Solar One would have a nominal capacity of 850MW using concentrating solar power. The clean, renewable, solar-powered electricity generated by the Project will be delivered to SCE.

June 3, 2009 Mr. Steven Borchard Page 3

SCE and SES entered into a 20-year Power Purchase Agreement (PPA) for 500 megawatts (MW) with options to expand up to 850MW. The California Public Utilities Commission approved the PPA on October 24, 2005.

This power will be delivered into the SCE system at the SCE Pisgah Substation, which is located adjacent to the Solar One site. Much of the power from the Project will be generated at peak times, when the demand for electricity is greatest. The permitting process with the California Energy Commission and the Bureau of Land Management commenced in December 2008. Construction of Solar One is expected to begin in mid to late 2010 and will take approximately four years for completion of the full 850 megawatts. However, renewable power from the project will come online much earlier. Due to the modularity of the technology, renewable power can be supplied to the grid as the dishes are constructed. We currently expect to bring the power on-line in approximately 9 MW groups.

As described more fully in the appendix to this letter, SES worked closely with the Bureau of Land Management (BLM) to determine suitable sites for our solar projects. In the case of Solar One, these discussions go back to late 2004. Over the course of most of 2005, SES and its consultants selected potential sites and reviewed the potential sites with personnel from the BLM Barstow office. In response to concerns articulated by BLM staff, certain sites were discarded. In September 2005, SES met with BLM and CEC staff to review three new sites, including the site eventually chosen for Solar One. It was agreed that this site appeared to be the most promising for renewable energy development. Among the reasons for this conclusion was that it appeared to have a lower population of desert tortoises than other sites, it is classified by BLM as Limited/Moderate Use Class, and it avoided conflicts with desert user groups such as OHV users. BLM staff agreed to lead a walk-through of the site, which took place in late 2005. At no time during 2005 or since has BLM staff advised us that any of the lands within the Solar One project boundary were restricted from development.

In reliance on these discussions with BLM, SES has spent over four years, and very significant costs, developing the Solar One site. We have retained a full retinue of experts to prepare the environmental and engineering studies necessary to file the permit application with the CEC, including among others, biological and archaeological studies. The application itself consists of several thousand pages of detailed information and analysis. The cost of preparing and pursuing these studies and permitting activities to date exceed \$6 million.

Last fall the California Wilderness Coalition (CWC) was considering a proposal that would have expanded the existing Cady Mountains Wilderness Study Area to include the Solar One project area, and would have designated the entire area as wilderness. As a result, we engaged in a series of discussions with the CWC and James Peterson of Senator Feinstein's Los Angeles office. In part due to our reliance on the consultation with BLM described above, these discussions resulted in an agreement with CWC to drop the Solar One area from their wilderness proposal.

Finally, while we understand the position that the Catellus lands were acquired for the purpose of conservation, available land records in connection with the transaction do not reflect that intent.

June 3, 2009 Mr. Steven Borchard Page 4

Our staff has researched the land records associated with the Catellus lands that are within the Solar One project boundary. A review of the deeds demonstrates that no legal restrictions were placed on these lands when the lands were transferred to the Department of the Interior. Thus, neither our lengthy consultation with the BLM staff nor a review of the land records themselves, provided any notice of potential restriction on development of the land within the Solar One boundary for development.

Thank you for the opportunity to provide this additional information to you. We hope to continue to work with your office, with Senator Feinstein, and with the Monument Proposal sponsors to reach a solution that strikes a balance between preserving appropriate desert lands for conservation and developing clean, peaking renewable energy to help meet California's RPS and greenhouse gas reduction goals.

Sincerely,

Sean Gallagher

Sa V Stollege

Vice President,

Market Strategy & Regulatory Affairs

Stirling Energy Systems & Tessera Solar

cc: Greg Miller

Jim Stobaugh Jim Abbott

Felicia Bellows

Camille Champion

#### APPENDIX – HISTORY OF CONSULTATION WITH BLM

In late 2004, SES retained EPG, a Phoenix-based environmental consulting company, to help us identify candidate sites to accommodate a solar farm of 34,000 or so dishes. About eight general locations (some with 2 or more alternative possible sites) were identified in the deserts of Southern California, essentially all on land principally under the administration of the BLM. We met with people from the BLM field office in Barstow to review the majority of these sites, which were managed by the Barstow office.

By August 1, 2005, we had narrowed the sites down to a handful, all in the Mojave Desert, and we met with members of the BLM staff and SCE to discuss these alternatives. There was concern raised about several of these sites because of potential biological issues (particularly desert tortoises) and, in one instance, siting over an existing Off-Highway Vehicle Recreation Area (Johnson Valley OHV Area, which is the largest OHV area in the United States).

We commissioned EPG to find other potential sites that might be more suitable and less problematic for siting our solar plant. EPG found three more sites, two north and one west of the earlier sites but in the same general part of the Mojave Desert.

We met again with the BLM Barstow office on September 29, 2005 to review these latest candidate sites. The three new sites included what was finally selected as the site now being developed for Solar One.

Attending that meeting were the following:

#### From BLM:

Rich Rotte, real estate specialist Ken Schulte, geologist David Frink, biologist Roxie Trost, field manager Edy Seehafer, environmental coordinator Mike Ahrens, OHV coordinator

#### From the California Energy Commission:

Roger Johnson (then) renewables project manager Eileen Allen, assistant renewables project manager

#### From SES or EPG:

Garlyn Bergdale (President, EPG) Mickey Siegel, EPG Bob Liden

#### From SCE:

Jack Horne

#### APPENDIX – HISTORY OF CONSULTATION WITH BLM

Of the three new sites, the BLM staff rapidly dismissed one because of high tortoise density and the fact that the entire site is within the Ord-Rodman Desert Wildlife Management Area (DWMA). Of the other two, the site finally selected for Solar One was determined by the BLM team to be most promising. The EPG consultants had "walked the site" and concluded the desert tortoise population was relatively low; the site is classified by BLM as Limited/Moderate Use Class; there was a potential for cultural resources, although none were observed in the site visit; and there is reasonable access to the site via an existing 4-way exit/entrance from near-by Interstate 40 (Hector Road). Potential drawbacks included relatively high visibility from I-40 and possible view shed issues with historic Route 66; the need to deal with a railroad crossing; and (as with virtually all of Southern California) seismic issues.

It was agreed that the BLM should lead a site walk-through with SES; the CEC asked to be invited to this site visit as well.

Over the next two months, this walk-through did occur, led by Rich Rotte, and subsequent visits also included the California Fish and Game and U.S. Department of Forest and Wildlife. We applied for right-of-way access for this site in February 2006, and filed an initial Plan of Development in March 2007. Since that time, we have filed revised and expanded Plans of Development, and the site has been registered in the BLM's LR 2000 database in our name.

Mr. Greg Miller Bureau of Land Management California Desert District Office 22835 Calle San Juan De Los Lagos Moreno Valley, CA 92553

Dear Mr. Miller:

We are in receipt of your letter dated May 6, 2009 in which you explain that approximately 88 acres of our application for the Stirling Energy Systems (SES) Solar One-Phase One Project, includes acquired land subject to a donation agreement. These lands are located at Township 8 North, Range 6 East, Section 17, and (San Bernardino Meridian). You have requested that we provide you additional information demonstrating that we can construct and operate our project in a manner consistent with the values of the land donated for the required environmental review process.

We have reviewed the Bureau of Land Management California Desert Conservation Plan (CDCA)-West Mojave Resource Management Plan (RMP) Amendment. As part of the permitting process, we understand that the proposed project would be analyzed with the intention of an RMP amendment allowing for a solar thermal development on the proposed project site.

The proposed project will generate clean, renewable, solar-powered electricity using dish-stirling technology. This technology has numerous environmental advantages, including the lowest water usage of any electric generating technology, minimal grading requirements, no excavation for foundations, and the highest sun-to-grid efficiency of any solar generating technology. In addition, the fin-pipe foundation, the only component of the SunCatcher System that is placed into the ground, creates minimal disturbance to the environment, requiring no need for gradation. The foundation is preferred because it is hydraulically placed in the ground and requires no permanent fixture, such as concrete.

Per BLM regulations, we understand that by accepting a grant, we agree to comply with and be bound by terms and conditions (which would include stipulations and mitigation requirements) during construction, operation, maintenance and termination of the project.

We propose that the use of the proposed lands, identified as Catellus Lands, would be consistent with the terms of the California Desert Conservation Area Plan, and through required mitigation measures provided by the Federal, State, and local agencies, would protect the natural, cultural, and aesthetic values associated with the Fee Land in a manner consistent with the CDCA Plan.

If you need any additional information or would like to discuss this any further, please feel free to contact me at the above address or at 602-535-3620.

Sincerely,

Camille Champion Senior Project Manager Tessera Solar Inc.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 313: If intensive surveys were conducted, please provide the results

(including a map if available) of the intensive surveys conducted for

the Project.

Response: Intensive surveys as defined in the USFWS Field Survey Protocol for a Non-

federal Action, and as quoted in the background section for this DR were not preformed. An adapted sub-sampling protocol was created and approved by the appropriate federal agencies, including USFWS. These surveys followed USFWS protocols of transects 10 meter (30 feet) apart through 100 percent of the surveyed areas (80 acre sub plots within larger 240 acre survey cells). This is the information contained in the AFC. The USFWS, BLM, and CDFG have approved

the protocols used for these surveys, as described in the AFC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 314: If intensive surveys were not conducted, please provide a

justification for why they were not conducted and describe how

surveyor accuracy was evaluated.

Response:

An adapted sub-sampling protocol was created and approved by the appropriate federal agencies, including the USFWS. These surveys followed the USFWS protocols of transects 10 meter (30 feet) apart through 100 percent of the surveyed areas (80 acre sub plots within larger 240 acre survey cells); these surveys were intensive. Surveyor accuracy is dependant on not only surveyor experience, but also the likelihood that desert tortoises are able to be detected. This latter factor is dependant on the previous winter's rainfall. Surveyor accuracy in general is estimated to be between 55 and 68 percent according to Nussear (2008). The USFWS Pre-Project Field Survey Protocol for Potential Desert Tortoise Habitats lists tortoise observer accuracy at approximately 63 percent of observed tortoise that were within five meters of the transect line (this equates to 10 meter transect, as were conducted for this Project). This number falls between the range of 55 to 68 percent listed by Nussear.

#### References:

Nussear, K.E., T.C. Esque, J.E. Heaton, M.E. CABLK, K.K. Drake, C. Valentin, J.L. Yee, P.A. Medica. 2008. Are Wildlife Detector Dogs Or People Better At Finding Desert Tortoises (*Gopherus agassizii*)? Herpetological Conservation and Biology 3(1): 103-115.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 315: Please clarify whether belt (or line) transects were used to

conduct desert tortoise surveys.

Response: Ten meter wide belt transects were used to conduct desert tortoise surveys,

with the surveyor walking in the center of the transect, with five meters of area to survey on either side. These ten meter wide belt transects were completed within sample plots of 80 acres centered in 240 acre cells arranged over the entire survey area. Multiple, adjacent belt transects were surveyed to provide

coverage of the 80-acre sample plots.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 316:** If the answer is yes, please clarify whether closer transect

spacing was implemented at any location(s) within the survey area and mark these locations on a map. Please also discuss how each transect was chosen either systematically or randomly, and provide the order in which transects were

completed.

A. If the answer is no, please discuss how each survey block was systematically searched and provide the order in which

survey blocks were completed.

Response: Closer transect spacing than ten meters was not deemed necessary

because the open habitat composition did not require it. Ten meter wide transects were walked throughout the entire sample plot until the entire plot was 100 percent covered. Transects were arranged in a north-south orientation and began on either the west or east sides of the sample plot, progressing to the opposite direction until the other end of the plot was

reached and the plot was surveyed 100 percent.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 317: Please specify each person that had a minimum of 60 days prior

field experience searching for desert tortoises and tortoise sign.

Response: The USFWS desert tortoise survey protocol implemented by the Applicant

recommends surveyors have a minimum of 60 days field experience searching

for desert tortoises and tortoise sign.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 318: For surveyors without 60 days of prior field experience, provide

a discussion of how surveyors were trained and any measures that were taken to ensure they obtained accurate survey results.

Response: As stated previously in the Applicant's response to CURE Data Request 10:

Most of the URS staff were trained and had 60 days or more of previous tortoise survey experience. Less experienced staff with less than 60 days experience

were paired with more experienced staffers. See resumes of field staff.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 319: Please distinguish the personnel that surveyed independently

from those that were paired with more experienced staff.

**Response:** No personnel conducted surveys independently.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 320: Please clarify whether some of the desert tortoise signs

detected in the field were recorded on the data sheets (i.e., the ones that were provided in the AFC), but were not recorded with a GPS unit and were not depicted on the occurrence map provided in the AFC.28 If all desert tortoise signs were depicted on the map provided in the AFC, please explain why data depicted on the map are inconsistent with data on the data

sheets.

**Response:** Some of the desert tortoise sign detected in the field was recorded on the data

sheets (i.e., the ones that were provided in the AFC), but were not recorded with a GPS unit and were not depicted on the occurrence map provided in the AFC. Because data sheets were not required, but some were completed anyway (some during surveys, some incidentally), there is a discrepancy with the data

depicted on maps and that recorded on data sheets.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 321:

Please clarify whether data on all "incidental observations" of desert tortoises and their sign were provided in the AFC, specifically, in Section 5.6.1.2 (*Existing Conditions*) and on Figure 5.6-4 (*Special Status Species Detected*). If the answer is yes, please discuss how data that were not recorded on data sheets were recorded such that they could be accurately applied to the desert tortoise abundance estimates provided in the AFC.29 If the answer is no, please justify the validity of the abundance estimates provided in the AFC given they did not account for all detections (of desert tortoise).

Response:

Because incidental observances were not required to be noted, and were not recorded during focused desert tortoise surveys, they were "incidental" and not included in calculations of the desert tortoise population or density. Incidental observations may have occurred at any time during field efforts at the Project site and are likely to include double counts of the same tortoise. Inclusion of incidental observations in any type of abundance calculation will erroneously skew the estimate of population and density to the high side. Such inclusion of incidental observations to estimate population densities would not be appropriate.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 322: Please clarify whether the applicant knows which data sheets

are associated with the focused surveys and which ones are associated with incidental observations. If the answer is yes,

please label the data sheets accordingly.

Response: The data sheets have been rearranged according to those completed during

focused desert tortoise surveys and those completed incidentally. Please see

attachment BIO-1.

Forms Completed During Focused Desert Tortoise Surveys

16 MAY 2007 R.BAILLY, G. HOISINGTON (#1)

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V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  present a	nd? O Yes O No ess ments Behavior
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth	nd? O Yes O No ess ments Behavior
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  present al  Epoxy #  present le	nd? O Yes O No ess ments Behavior
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  present al  Epoxy #  present le  Other notes	nd? O Yes O No ess ments Behavior bsept
V1 (cent V4 (cent LC1,2&V2 (set LM5,6 & LC2 (set Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Void (g)  Void (g)  Total wt (g)  New growth  present at  Epoxy #  present le  Other notes	bsept  LOCATED DEEP INCLOS
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Void (g)  Void (g)  Total wt (g)  New growth  present at  Epoxy #  present le  Other notes	bsept  LOCATED DEEP INCLOS
V1 (cent V4 (cent LC1,2&V2 (set LM5,6 & LC2 (set Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Void (g)  Void (g)  Total wt (g)  New growth  present at  Epoxy #  present le  Other notes	nd? O Yes O No ess ments Behavior bsept
V1 (cent V4 (cent LC1,2&V2 (set LM5,6 & LC2 (set Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Void (g)  Void (g)  Total wt (g)  New growth  present at  Epoxy #  present le  Other notes	bsept  LOCATED DEEP INCLOS
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir  Type of blindn  Body Measurer  MCL (mm)  PLN (mm)  Void (g)  Total wt (g)  New growth  present at  Epoxy #  present le  Other notes	bsept  LOCATED DEEP ALSO E  (R4' deep)
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir Type of blindn  Body Measurer  MCL (mm) PLN (mm) Void (g) Void (g) Total wt (g)  New growth present at Epoxy # present le Other notes  Tokatolsk  Sukkow	Description of the second of t
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color bling Type of blinding Body Measurer  MCL (mm)	bsept  bosept  cocat to Deter and to see to color frames
V1 (cent V4 (cent LC1,2&V2 (se LM5,6 & LC2 (se Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color bling Type of blinding Body Measurer  MCL (mm)	Description of the second of t
V1 (cent V4 (cent LC1,2&V2 (set LM5,6 & LC2 (set Fore Hind	skin) HV Hue Value Chroma ter) ter) eam) eam) eleg	Color  Are you color blir Type of blindn  Body Measurer  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present all Epoxy # present le Other notes  Tokkovs  Photos; Draw locations of note Describe anomalies in numberin	bsept  bosept  cocat to Deter and to see to color frames

o not abbreviate Data Shee	t for Live Desert Tortoises	Write on this side only
Located by Dallas Pugh 5 (aro) Processed by Dallas Pugh Study site name Solar I  Township Range Section Quadrat  oordinates (Reference SW corner) meters North meters East  UTM's 558092 n 3851950 e	Chan Tortoise ID # Year first marked Verification of ID Capture type Date (dd/mm/yy) Time (PST): Start	Sex
Elevation — M Accuracy ± m punty <u>KYUS AL</u> State <u>CA</u>	tortoise in quadrat Transmitter attached	ed on
O On Plot O Off Plot	PIT #	
shrub on mound caliche cave rock shelter  ortoise Activity Interacting with other tortoise	Burrow Data  ID # Drientation Length Width Location  ID & sex of other tortoise	Survey Type O Radio track O Burrow search O Coverage 1 O Coverage 2 O Incidental O Other
basking Interacting with other animals walking Describe interaction: feeding	Species	}
Color (shell & skin) HV Hue Value Chroma  V1 (center)  V4 (center)	Type of blindness	O No./
LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	MCL (mm) PLN (mm) Weight (g)	Behavior
	Void (g)  Total wt (g)  New growth  present absent  Epoxy #  present legible  Other notes	
	Photos; roll  Draw locations of notches (old and Describe anomalies in numbering of marginal Entered by date	

o not abbreviate Data Shee	t for Live Desert Tortoises	Write on this side only
Data Shee  Located by Dallas Punk 4 Core  Processed by Dallas Punk 4 Core  Range ection Quadrat  Dordinates (Reference SW corner) meters North meters East  DTM's 559053 n 3852988 e  Elevation m Accuracy ± m  Data Shee	Verification of ID Capture type Date (dd/mm/yy) Time (PST): Start Frequency Transmitter type Transmitter attached Transmitter to be repla	ced on
On Plot O Off Plot	PIT #	
ortoise Location over site type: At cover site: Not at cover site:    burrow	Burrow Data  ID#  Orientation  Length Width Location	Survey Type O Radio track O Burrow search O Coverage 1 O Coverage 2 O Incidental Other
resting Interacting with other tortoise basking Interacting with other animals walking Describe interaction:	ID & sex of other tortoise	Focused Surveys
lants/items eaten (specific):		
		•
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg		Behavior
		frames

j. 5

Do not abbreviate Data Sheet for Live Desert	Tortoises Write on this side only
Located by Dallas Rugh Carey Chan  Processed by Dallas Rugh  Study site name Solar T	Tortoise ID #  Year first marked
Township Range Section Quadrat	Verification of ID  Capture type  Date (dd/mm/yy)  17/05/07
Coordinates (Reference SW corner)meters Northmeters East	Time (PST): Start 1110 End 1117  Frequency Transmitter #
UTM's 558338 n 3853929 e  Elevation m Accuracy = m Show location of tortoise in quadrat  County Lyc3ide State A	Transmitter type  Transmitter attached  Transmitter to be replaced on  PIT #
Tortoise Location  Cover site type: At cover site: Not at cover site:  burrow entering in open orientation East pallet exiting on mound caliche cave inside width 1.5 icc	Survey Type  O Radio track O Burrow search O Coverage 1 O Coverage 2 O Incidental
Tortoise Activity  resting	Fowsed survey
Plants/items eaten (specific):	
Color (shell & skin) HV Hue Value Chroma Color	
V4 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg  T  Body	you color blind? O Yes O No ype of blindness  Measurements  Behavior  I (mm)  ght (g)
V Total New □ p Epo	oid (g)  w (g)  growth  resent  absent  oxy #  present  legible
	er notes
Describe anomalie  Entered by	Photos; roll framesations of notches (old and new), chips, and anomalies, etc. s in numbering of marginals and any identification problems.
Modified by	on © Berry 1997

Do not abbreviate Health P	rofile Form for Dese	ert Tortoises	Main an abic of
Located by Dallas Pugh & Core	1 Chan		Write on this side only
Processed by Dallas Rugh	<del>ن</del> 	Tortoise ID #	***************************************
Study site name Solac I	1 -	Year first marked	Netternamental and the second
TownshipRange	<b>-</b>	Verification of 1D	
Section Quadrat	. [ ]	Capture type	Sex UNK
Coordinates (Reference SW corner)	"   "   "   "   "	Date (dd/mm/yy)	17/05/07
meters North meters Eas	st	Time (PST): Start	1110 End 1117
		Shell wear class	
UTM's 558338 n 3853929 e	Show location of	Process time	hours
County <u>Liverside</u> State <u>CA</u>	tortoise in quadrat	Frequency	
On Plot Off Plot		Transmitter #	
BEAK & NARES	ORAL		
Beak/nares wet O Yes O No @ Unk	·	O Yes O No Dunk	Urine (vol)
Beak/nose damp O Yes O No @ Unk	Discharge present	O Yes O No O Unk	Color
Nasal exudate present O Yes O No O Unk	Membranes pink	O Yes O No O Unk	Viscosity
Exudate color	Membranes pale, white	O Yes O No 🐠 Unk	Particulates
☐ cloudy ☐ white	Smells/mouth rot	C 102 C 140 A CILK	Color
☐ yellow	EVIDENCE OF SHELL		Nasal wash collected
☐ green	Lesions present	O Yes O No O Unk	Amt. blood/lymph taken (cc)
Bubble(s) from nares O Yes O No O Unk	Lesions active	O Yes O No O Unk O Yes O No O Unk	# of needle sticks
One nare occluded O Yes O No O Unk	Scute laminae peeling	O Yes O No S Unk	Time (min) of needle sticks
Both nares occluded O Yes O No Unk Dirt on nose/beak O Yes O No Unk	Scutes missing/peeling		Location
Dirt in nares O Yes O No O Unk	Pitting	O Yes O No @ Unk	PCV%
FORELEGS (adjacent to face)	Scutes depressed/concave	O Yes O No @ Unk O Yes O No @ Unk	Other samples taken
Dried dirt on forelegs O Yes O No  Unk		O TES O NO SOUNK	Describe/draw parasites
Moisture on forelegs O Yes O No O Unk	EVIDENCE OF TRAUMA	_	
Dried exud. on scales O Yes O No Dunk	Head Gular	O Yes O No ● Unk O Yes O No ● Unk	No oxisties
Scales cracking O Yes O No 🗶 Unk	Forelimbs	O Yes No Unk	- 65eprea
BREATHING	Hindlimbs	O Yes O No O Unk	
Smooth O Yes O No @ Unk		O Yes O No D Unk	DRAW: shape of gulars, location
Wheezing O Yes O No ● Unk Rasping, dickinç O Yes O No ● Unk	Scute/bone replacement	O Yes O No O Unk	of notches; chips, chews, shell damage, lesions; shell disease;
	Describe:		shell abnormalities: scute
EYES, CHIN GLANDS Circle eyes or lids: Eyes/lids whitened or	***************************************		concavities. Make new drawing at least once per year (spring).
discolored O Yes O No  Unk	Soil dryness: O wet	O damp	<b>-</b>
Eyelids swollen O Yes O No O Unk	Last precipitation (dd/mm/)		
Eyes/lids wet O Yes O No O Unk	- Lact prodipitation (daming)		
Discharge from eyes O Yes O No. A Link	,	•	
Eyes sunken O Yes O No. 40 Link		7	$\wedge$
Eyes clear, bright O Yes O No Co Link			Z/ Y \\
Eyes duff, cloudy O Yes O No  Unk Chin glands draining O Yes O No Unk	H }		$\times$ $\longrightarrow$
INTEGUMENT		\ n U	
Integument dull O Yes O No 9 Unk		) <del></del> (\ \ \ \ \ \ \ \ \	A visible
Integument glossy O Yes O No   Unk		1 H []	to true
Normal elasticity O Yes O No 🚭 Unk	H /	\ \} \]	H , terroist
Abnormal skin peeling O Yes O No Tunk		)—\frac{1}{1}	
POSTURE/BEHAVIOR	7	$\langle H \rangle$	
Alert, responsive O Yes O No  Unk	TXXXX	I H M	
Lethargic ● Yes O No O Unk Can withdraw tightly	NXXV		$\lambda \setminus A M A M$
into shell Yes O No O Unk	1/424	$\mathcal{I}$	XYXXVXXX
Limbs, head hanging	1///	` `	
loose O Yes O No 👁 Unk	VIII	ible Pat of ,	tortoise
Other notes Tartoise for into 6			10 10 10 10 10 10 10 10 10 10 10 10 10 1
Tartoise for into 6	MOW. Sex W	defermined.	
			© Berry 1997

Located by Ellen Howard Clandia Solor Zano	or Live Desert Tortoises	Write on this side only
Processed by	TORROSC ID #	wyft tdrtdise I
Study site name Solar   gund 17 18 1920	Year first marked	
Township Range	Verification of ID	
Section Quadrat	Capture type	Sex M
Coordinates (Reference SW corner)	Date (dd/mm/yy)	17-05-07
meters North meters East	Time (PST): Start	8:15 cm End
	Frequency	Transmitter #
UTM's 13552394 n 158189 e	Show location of Transmitter type	***************************************
Elevation	1	***************************************
County San Bacham State CA	Transmitter to be replac	ed on
On Plot Off Plot	PIT #	***************************************
Tortoise Location	Burrow Doto	
Cover site type: At cover site: Not at cover site:	Burrow Data	Survey Type
burrow entering in open	ID#	O Radio track O Burrow search
Exiting Desict	ntation <b>EAST</b> Length Height	O Coverage 1
☐ shrub ☐ on mound ☐ caliche cave ☐ inside ☐	Width Soil cover GRAVEL	O Coverage 2 O Incidental
	ocation	O Incidental
Tortoise Activity		
	sex of other tortoise	
■ basking	ecies	
☐ waiking Describe interaction.		
Plants/items eaten (specific):		
CF		
Color (shell & skin) HV Hue Value Chroma C	Color	
	Are you color blind? O Ye	s 🏟 No
V2 (000tor)	ALE VOU COIO TAIRIUTE E COLOR	
V1 (center) V4 (center)	······································	
V4 (center) LC1,2&V2 (seam)	Type of blindness	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam)	Type of blindness	Behavior
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Type of blindness  Body Measurements  MCL (mm)	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Type of blindness  Body Measurements  MCL (mm)	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  presentabsent	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  present absent  Epoxy #	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth absent  Epoxy # present legible	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth  present absent  Epoxy #	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth absent  Epoxy # present legible	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth absent  Epoxy # present legible	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth absent  Epoxy # present legible	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm)  PLN (mm)  Weight (g)  Void (g)  Total wt (g)  New growth absent  Epoxy # present legible	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes	
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible  Other notes  Photos; roll Draw locations of notches (old and	Behavior  frames
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm) PLN (mm) Veight (g) Total wt (g) New growth present absent Epoxy # present legible Other notes  Photos; roll	Behavior  frames
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm) PLN (mm) Void (g) Void (g) Total wt (g) New growth absent Epoxy # present legible  Other notes  Photos; roll Draw locations of notches (old and Describe anomalies in numbering of marginal	Behavior  frames  new), chips, and anomalies, etcls and any identification problem
V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg Hindleg	Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible  Other notes  Photos; roll Draw locations of notches (old and	Behavior  frames

Do not abbreviate	Health Profile For	m for Desert T	ortoises	Write on this side only
Located by ELLEN HOWAR	D, CLAUDIA SOLÓRZA		Tortoise ID #	WYPT TORTOISE 1
Processed by		V	ronoise ib #	
Study site name Sound 1 Gua	0 17 1819 20	<u> ·                                  </u>	Verification-of ID	
Township Range	***************************************			Sex
Section Quadrat	***************************************			E*
Coordinates (Reference SW corner)		[	Date (dd/mm/yy)	17-05-07
meters North	meters East	T	Time (PST): Start	8:15 am End
UTM's 3850394 n 0558	AC.		Shell wear class	**************************************
County SAN BORNAKOINDState	Shor	w location of se in quadrat	Process time	hours
On Plot O Off Plot	, Lea	se in quadrat	Frequency	***************************************
			Transmitter #	
BEAK & NARES		RAL		200
Beak/nares wet O Yes  Beak/nose damp O Yes		VITYObserved O	Yes O No O Unk	Urine (vol)
Nasal exudate present O Yes O		charge present O verbranes pink O v	Yes O No O Unk	Color Viscosity
Exudate color  clear			Yes ONo OUnk	Particulates
cloudy	Sr		Yes O No O Unk	Color
☐ white	EVIDENCE	OF SHELL DIS		Nasal wash collected
☐ yellow			Yes No O Unk	Amt. blood/lymph taken (cc)
☐ green		Lesions active O	Yes No O Unk	401000000000000000000000000000000000000
Bubble(s) from nares O Yes O One nare occluded O Yes O	No O Onk	esions healed O	Yes 🖲 No 🔾 Unk	# of needle sticks
Both nares occluded O Yes O	No. O Link		Yes 🔊 No 🔾 Unk	Time (min) of needle sticks
" Dirt on nose/beak O Yes O	No O Unk		Yes SNo Q Unk Yes O No O Unk	Location
Dirt in nares O Yes O		essed/concave O	Yes ONO OUNK	PCV%
FORELEGS (adjacent to face)		Fungal areas O	Yes No O Unk	Other samples taken Describe/draw parasites
Dried dirt on forelegs O Yes	No O Unk EVIDENCE	OF TRAUMA	_	Describe/draw parasites
Moisture on forelegs O Yes			Yes  No O Unk	
Dried exud. on scales O Yes		Gular O	Yes No O Unk	
Scales cracking O Yes	No O Unk	Forelimbs O	Yes 🔊 No 🔿 Unk	
BREATHING		Hindlimbs O	Yes No O Unk	
Smooth Yes OI Wheezing OYes OI			Yes No O Unk	DRAW: shape of gulars, location
Rasping, clicking O Yes O !	No O Unk	·	Yes O No 😨 Unk	of notches; chips, chews, shell damage, lesions; shell disease;
•	Des	scribe:	***************************************	
EYES, CHIN GLANDS Circle eyes	or lids:	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	least once per year (spring).
Eyes/lids whitened or discolored O Yes 🕉 N	No O Link Soil dryr	ness: Owet Od	lamp A dry	<b>-</b>
Eyelids swollen O Yes	10 O O III	tation (dd/mm/yy)	amp & dry	
Eyes/lids wet X Yes On	to O Unik Cast precipi	Tanor (do/mm/yy)		nana. Marangan kananan langungan salah
Discharge from eyes O Yes X N	in Ottok	_^		1 1
Eyes sunken O Yes 1011	No O Unk			$\wedge$
Eyes clear, bright OXIYes ON	√o O Unk /	$ \leftarrow $	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	5/ Y \\
Eyes dull, cloudy O Yes X	lo O Unk	<b>\</b>	7) X	$\mathcal{L}$
Chin glands draining O Yes 🔊	to O Unk		$\mathcal{H}$	
INTEGUMENT	[ <del>} -</del>	<del>-(</del>	(\	$\mathcal{H}$
Integument dull O Yes O N Integument glossy O Yes O N	lo O Unk		$\mathcal{H}$	
Normal elasticity O Yes O N	lo O Unk		() H	H
Abnormal skin peeling O Yes O N		<b>-</b> (		
POSTURE/BEHAVIOR	Н	/	11 1	X—————————————————————————————————————
Alert, responsive Yes O N	o Ollek U		U K	Y   VAI
Lethargic O Yes 🚯 No	o O Unk	一( )	J N	$( \setminus \ \downarrow \ ) / D$
Can withdraw tightly	( )	<u> </u>		ヘンイン
into shell 👽 Yes 🔘 No	o O Unk	$\times$	$\sim$	
Limbs, head hanging O Yes No No	O Unk		-	
Other notes		<del></del>		
			***************************************	

o not abbreviate	Data Sheet for Liv	re Desert Tortoises	Write on this side only
Located by R. BALLEY	6. HOISINGTEN)	Tortoise ID #	
Processed by	*******************************	Year first marked	***************************************
Study site name SouAp T	ARRAY	Verification of ID	-
Township Range	***************************************		Sex ONENSON
Section Quadrat		Capture type	
	i	Date (dd/mm/yy)	18 MAY 2007
oordinates (Reference SW corne meters North		Time (PST): Start	0950
		Frequency	Transmitter #
UTM's 3852763 n 055	6175 e	w location of Transmitter type	
Elevation 2293 4 Accu	ıracy ± 3 m tortoi:	** 1004(1011 01	
ountyState	******************************		ed on
4			***************************************
On Plot O Off Plot		CI #	
ortoise Location	Burro	ow Data	Survey Type
Cover site type: At cover site:	Not at cover site:		O Radio track
<b>(</b> burrow ☐ entering	LI III ODGII		O Burrow search
] pallet ☐ exiting ☐	─☐ other Orientation		O Coverage 1
shrub on mound	Length	HeightSoil cover	O Coverage 2
] caliche cave   inside L ] rock shelter			O Incidental
1 TOOK SHEELE!	Location		CO Other
ortoise Activity	ith other testing. ID 0	follow house for	
] resting ☐ Interacting wi		f other tortoise	i
	· · · · · · · · · · · · · · · · · · ·		
feeding	13014-000	LOCATED UNDER A RAMMOSISSIMA	
- <b>-</b>			1
lantelitame paten (enerific):	1468614 6	Military Comments	L.,
Plants/items eaten (specific):	ALDNG S	MALL WASH BANK WITHIN	
lants/items eaten (specific):	AN EXPA	INSIVE ALLUVIAL PLOOD	
	AN EXPA	MALL WASH BANK WITHIN HUSIVE ALLUVIAL FLOODS LARGE OBBLE/BRAVEL IN	
	AN EXPA	INSIVE ALLUVIAL PLOOD	
olor (shell & skin) HV Hu	AN EXPA PLAIN,	LARGE OBBLE/BRAVEL IN	
	AN EXPA PLAIN,	LARGE COBBLE/BRAVER IN  Are you color blind? O Ye	HTM FEW OPEN APERS
olor (shell & skin) HV Hu	AN EXPA PLAIN,	LARGE OF BILE / BRAVER IN  Are you color blind? O Ye  Type of blindness	OTH FEW OPEN APEAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam)	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  Body Measurements	OITH FEW OPEN APEAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  Body Measurements  MCL (mm)	OTH FEW OPEN APEAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam)	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  Body Measurements  MCL (mm)  PLN (mm)	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  MCL (mm)  PLN (mm)  Weight (g)	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g)	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g)	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth	OITH FEW OPEN APEAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g)  New growth present absent Epoxy #	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Void (g) Total wt (g) New growth present absent Epoxy # present legible	OITH FEW OPEN AREAS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye  Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g)  New growth present absent Epoxy #	OITH FEW OPEN AVERS
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes	S O No  Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Void (g) Total wt (g) New growth present absent Epoxy # present legible	S O No  Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes	S O No  Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes	S O No  Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes	Behavior  Beneford
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLAIN,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes  Photos; roll	SURROW  frames
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLATIN ,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epox # present legible Other notes  Photos; roll Draw locations of notches (old and	Behavior  Behavior  Frames  new), chips, and anomalies, etc.
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLATIN ,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present absent Epoxy # present legible Other notes  Photos; roll	Behavior  Behavior  Frames  new), chips, and anomalies, etc.
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	AN EXPA PLATIN ,	Are you color blind? O Ye Type of blindness  Body Measurements  MCL (mm) PLN (mm) Weight (g) Void (g) Total wt (g) New growth present   legible Other notes  Photos; roll Draw locations of notches (old and ibe anomalies in numbering of marginal	Behavior  Behavior  Frames  new), chips, and anomalies, etc.

Do not abbreviate		for Live Desert Tortoises	Write on this side only
Located by SU	go Howard	Tortoise ID #	
		Year first marked	
Study site name		Verification of ID	-
Township	Range		Sex UNIKNOWN
Section		Capture type	5ex
		Date (dd/mm/yy)	21 WAY 2007
coordinates (Reference		Time (PST): Start	1136 End
	th meters East	Frequency	
UTM's 3853528	1 <u>0556859</u> e	· · · · · · · · · · · · · · · · · · ·	
Elevation 2360	Accuracy ± 6 m		
ounty	State	i e	aced on
O On Plot O Off Plot		PIT #	
ortoise Location		Burrow Data	
•	ver site: Not at cover site:	burrow Data	Survey Type
4	tering  in open	ID#	O Radio track
] pallet	· · · · · · · · · · · · · · · · · · ·	entation	O Burrow search O Coverage 1
shrubon	mound	Length Height	O Coverson 2
caliche cave kins	ide 4	Width Soil cover	O Incidental
] rock shelter		Location	Other
ortoise Activity			
		& sex of other tortoise	
] basking		pecies	1
walking	Describe interaction:		1
I feeding	·		
lants/items eaten (spe	cific):		
	1	. •	
olor (shell & skin)	HV Hue Value Chroma	Color	•
oloi (olich a skili)	The Value Chloria		<b></b>
V1 (center)		. Are you color blind? - O Y	•
V4 (center)		Type of blindness	
LC1,2&V2 (seam)		Body Measurements	Behavior
LM5,6 & LC2 (seam)		MCL (mm)	
Foreleg Hindleg		PLN (mm)	
minaleg	L		
سهسم	7777	Weight (g) Void (g)	1
· <b>/</b> /27		Total wt (g)	·
~	\	New growth	
>	<del></del>	present absent	
~		Epoxy # □ present □ legible	1
17			
XX		Other notes	
<i>₩</i>		TORDISE IN BURRON	JUNDER CREOSUTE IN
		OLEN BEULLO SHEE	T FLOW WEAR ROAD
		IN MASH	
		1	
$\mathcal{U}$		<u> </u>	
7>	$\wedge$	Photos; roll	frames
$\mathcal{L}$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		nd new), chips, and anomalies, etc.
H I		Describe anomalies in numbering of margin	
		= ===== or mands withdrivening of margin	and any identification problems.
$\mathcal{M}$		Entered by date	on computer
(X	$\perp \perp \times$	Modified by on	<u> </u>
7		Modified by on	© Berry 1997

Do not abbreviate Data Sheet for Live Deser	t Tortoises	Write on this side only
Located by Ellen Howard	Tortoise ID #	
Processed by	Year first marked	
Study site name	☐ Verification of ID	
Township Range		Sex NNKNOWN
Section Quadrat	Capture type	Sex Minim
	Date (dd/mm/yy)	21 MAY 2007
Coordinates (Reference SW corner)	Time (PST): Start	0920 End
meters North meters East	Frequency	Transmitter #
UTM's 3854451 n 0556672 e Show location of	f Transmitter type	<u> </u>
Elevation 2.565 Accuracy ± 15 m tortoise in quadra		
CountyState	Transmitter to be replace	d on
O On Plot O Off Plot	PIT #	
O OIT FIRE O OIT FIRE		
Tortoise Location Burrow Data		Survey Type
Cover site type: At cover site: Not at cover site:		O Radio track
Mburrow Dentering Dinopen ID#	***************************************	O Burrow search
pallet exiting other Orientation	_	O Coverage 1
shrub on mound Length	Height Soil cover	O Coverage 2
		O Incidental  O Other
		3 3 3 3 3
Tortoise Activity ☐ Interacting with other tortoise ID & sex of other tortoise	bise	
	**************************************	. [
☐ walking Describe interaction:		
☐ feeding	. 1	
Plants/items eaten (specific):		
	į	
Color (shell & skin) HV Hue Value Chroma Color		
	re you color blind? O Yes	O No
V1 (center) V4 (center)	•	
	dy Measurements	Behavior
LM5,6 & LC2 (seam)	•	Denzvioi
Foreleg	ICL (mm)	
1 iii 10:09	LN (mm)	
"	/eight (g)	
To To	Void (g)tal wt (g)	
	ew growth	1
	present absent	ļ
	poxy #	
	present 🛘 legible	
Of Of	her notes	
	PRIDISE IN BUFFOW UND	ER CREOSOTE BUSH ALDNUL
	ANY of SWALL WAS	
	of Angroom Allex	``
	Photos; roll	frames
Draw I	ocations of notches (old and	new), chips, and anomalies, etc.
Describe anoma	lies in numbering of marginal	s and any identification problems.
Entered by	date	on computer
Modified by	on	© Berry 1997

# 22 WAY 2007

Do not abbreviate	Data Sheet for	Live Desert	<b>Fortoises</b>	Write on this side only
Located by M. WAR	TIAN GIHOLS/NETE	5 PV	Tortoise ID #	
	f		Year first marked	
		<del></del>	Verification of ID	<del></del>
Township F	Range			
Section Qu	adrat		Capture type	Sex
Coordinates (Reference SW			Date (dd/mm/yy)	22 MAY 2007
meters North			Time (PST): Start	413 End
			Frequency	fransmitter #
UTM's 3854940 n		Show location of	Transmitter type	,
Elevation 2323	Accuracy ± m	tortoise in quadrat		····
County	State		Transmitter to be replace	ed on
On Plot O Off Plot	•		PIT #	/
Tortoise Location		Burrow Data	i. Ha	Survey Type
Cover site type: At cover	<u> </u>		*	O Radio track
□ burrow    □ entering     □ pallet    □ exiting	~	lation		O Burrow search
☐ pallet ☐ exiting ☐ shrub ☐ on more	) Libraries		Height	O Coverage 1 O Coverage 2
caliche cave inside		Width	Soil cover	O Incidental
☐ rock shelter	Loc	cation	***************************************	O Other
Tortoise Activity				
<b>July</b> 10011119			·····	
	ing with other animals Spec Describe interaction:	ies	***************************************	
☐ walking ☐ feeding	Describe interaction.			
	١٠			
Plants/items eaten (specific	/-	•		
Color (shell & skin) H	V Hue Value Chroma Co	olor		~ <i>I</i>
V1 (center)			you color blind? O Ye	s O No
V4 (center)	<del>                                     </del>		pe of blindness	······································
LC1,2&V2 (seam)	<del>                                     </del>	Body	Measurements	Behavior
LM5,6 & LC2 (seam) Foreleg		MCL	. (mm)/	
Hindleg		PLN	(mm)	
		Weig	tht (g)	
	1	Vo	oid (g)	
	XX	Total	wt (g)	
$\mathcal{X} / \setminus$	\mathcal{h}\mathcal{h}\mathcal{h}		growth	
\ <u>\</u>			esent 🔲 absent	
$\prec$ /		Epox	ky.# resent □ legible	
XX	$\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}\mathcal{L}$		notes	
A T		10 8	dream on bank of	BRAIDED WASH LEADING
		(1)	et later wash ac	ature, W- Facing slope
سيجسر			of JANTHAY TO	POORAPHY SURROUNDING
		1148	SITE.	
$\mathcal{H}$		<b>L</b>	Photos: roll	· · · · · · · · · · · · · · · · · · ·
	ITY	Denie lana		frames
R	}}			I new), chips, and anomalies, etc. als and any identification problems.
		Describe anomanes	an numbering of margina	ns and any identification problems.
	$\top \setminus \mathcal{U}$	Entered by	date	on computer
		Modified by	on	© Berry 1997
	ヘエムン	· ·		/בבו עווארה הייי

Do not abbreviate	Data Sheet f	for Live Desert T	ortoises	Write on this side only
Located by	HOISINGTON WORZT IA	2	Tortoise ID #	·
Processed by	***************************************		Year first marked	***************************************
Study site name	***************************************		Verification of ID	-
Township			Capture type	Sex
	Quadrat		Date (dd/mm/yy)	MAY 22 2007
Coordinates (Refe	rence SW corner) rs North meters East		Time (PST): Start	1215 End
			Frequency	Transmitter #
UTM's 285 -147	38 n 0553600 e 74 m Accuracy ± 6 m	Show location of	Transmitter type	
Elevation 200	Accuracy ± m	tortoise in quadrat	Transmitter attached	
County	State		Transmitter to be replace	ed on
O On Plot O Of	f Plot		PIT#	
			<del></del>	
Tortoise Locat		Burrow Data	۸ ا	Survey Type
Cover site type:	At cover site: Not at cover site:	ID#	•	O Radio track
pallet	entering Diropen Ori	entation	***************************************	O Burrow search
shrub shrub	☐ on mound	Length	Height	O Coverage 1 O Coverage 2
caliche cave	文 inside	Width		O Incidental
rock shelter	1 1	_ocation	***************************************	O Other
Tortoise Activi	ty			
		& sex of other tortoise.		
		pecies		
☐ walking ☐ feeding	Describe interaction:			
Plants/items eater	(specific):			
Tamento cater	(opecine).			····
Color (shell & s	skin) HV Hue Value Chroma	Color		•
			ou color blind? · O Ye	o O No
V1 (cent				*
V4 (cent LC1,2&V2 (se	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		pe of blindness	
LM5,6 & LC2 (se			Measurements	Behavior
Forel		MCL (	*	
Hindl	eg		(mm)	
			nt (g)	
			d (g)	
L		Total w		
-<		New g □ pre	rowth sent 🔲 absent	
. /	· <del></del>	Ероху		
7			sent 🔲 legible	
	$\lambda \langle \cdot \mid \cdot \rangle \langle \lambda \rangle$	Other	notes	
'	YLL (SY)	TOR	DISS INSING F	Delicery 1 UND SC / Description
		NEX	t TO COAD ( ) ACL	BURROW UMDER CREOSOTE on smyll bank cosbee . Braided
		W/F	AIR AUTUST OF	COBALS BRAIDED
		WASI	H AREA ON ALLU	VIAL FAN
L	(	<u></u>		
٢,			Photos; roll	frames
K				new), chips, and anomalies, etc.
	$\bot$ $\bot$ $\bot$ $\bot$	Describe anomalies i	in numbering of margina	ls and any identification problems.
		Entered by	date	on computer.
	$\lambda \perp \mid \lambda \rangle$	Modified by		on computer on
·		Modried by	on	☐ © Berry 1997

Do not abbreviate Health P	rofile Form for Desc	ort Tortoione	
Located by KM, DP, SA	. omo i omi for Desi	ert rortoises	Write on this side only
Processed by Dalbs Rugh	X	Tortoise ID #	***************************************
Study site name Solar I	]	Year first marked	***************************************
Township Range		Verification of ID	
Section Quadrat		Capture type	Sex LAY
Coordinates (Reference SW corner)		Date (dd/mm/yy)	23/05/07
meters North meters Eas	st	Time (PST): Start	End
UTM's 0548526 n 3855548 e		Shell wear class	***************************************
	Show location of	Process time	hours
County <u>Liverside</u> State <u>CA</u>	tortoise in quadrat	Frequency	***************************************
O On Plot ● Off Plot		Transmitter #	
BEAK & NARES	ORAL .		
Beak/nares wet O Yes O No Wunk	CAVITYObserved	O Yes O No 🚳 Unk	Urine (vol)
Beak/nose damp O Yes O No 6 Unk Nasal exudate present O Yes O No 6 Unk	Discharge present	OYes ONo 🚳 Unk	Color
Exudate color  clear	Membranes pale white	O Yes O No O Unk	Viscosity
☐ cloudy	Smells/mouth rot	O Yes O No O Unk O Yes O No O Unk	Particulates
☐ white	EVIDENCE OF SHELL	Dies ONO SOUNK	Color
☐ yellow ☐ green		O Yes No O Unk	Amt. blood/lymph taken (cc)
Bubble(s) from nares O Yes O No O Unk	Lesions active	OYes  No OUnk	41144444444444444444444444444444444444
One nare occluded O Yes O No. A Link	Lesions healed	O Yes O No 🕥 Unk	# of needle sticks
Both nares occluded O Yes O No. A Link	Scutes missing/pooling	O Yes No O Unk	Time (min) of needle sticks
"Dirt on nose/beak O Yes O No  Unk Dirt in nares O Yes O No  Unk	Pitting	O Yes 🏟 No O Unk.	Location PCV%
	Scutes depressed/concave	O Yes 🗶 No O Unk	Other samples taken
FORELEGS (adjacent to face)	•	O Yes O No O Unk	Describe/draw parasites
Dried dirt on forelegs O Yes O No O Unk  Moisture on forelegs O Yes O No Unk	EVIDENCE OF TRAUMA		
Dried exud. on scales O Yes O No  Unk	Head	O Yes O No O Unk	
Scales cracking O Yes O No 📵 Unk	Eular Forelimbs	O Yes O No O Unk O Yes O No O Unk	
BREATHING	Hindlimbs	O Yes  No O Unk	
Smooth O Yes O No ● Unk Wheezing O Yes O No ● Unk		O Yes No O Unk	DRAW: shape of gulars, location
Rasping, clicking O Yes O No S Unk	Scute/bone replacement	O Yes  No O Unk	of notches; chips, chews, shell damage, lesions; shell disease;
EYES, CHIN GLANDS Circle eyes or lids:	Describe:		Shell abnormalities: scute
Eyes/lids whitened or			concavities. Make new drawing at least once per year (spring).
tiscolored O Yes O No O Unk	Soil dryness: O wet	O damp  dry	<b>-</b>
Eyelias swollen O Yes O No A Unk	Last precipitation (dd/mm/y	yy) uknown	·
Eyes/lids wet O Yes O No O Unk	and the second s	na na makala di mana kalaya ya dhara maka ka mara ka	
Discharge from eyes O Yes O No O Unk Eyes sunken O Yes O No O Unk	1/2		
Lyes cleat, pright O Yes O No 🗥 Unk			
Eyes dull, cloudy O Yes O No 🚳 Unk		/ X) &	7
Chin glands draining O Yes O No Unk		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Integument dull O Yes O No • Unk	( )——(	)—// H	$\mathcal{A}$
Integument glossy O Yes O No O Unk		/ H />	<del></del>
Normal elasticity O Yes O No O Unk	A /	7 () 7	1 7
Abnormal skin peeling O Yes O No  Unk	<b>/</b> }───⟨	)—\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 13/6/5
POSTURE/BEHAVIOR	A -	$\langle H \rangle$	to Field I
Alert, responsive Yes O No O Unk	H - /	THU	to take
Lethargic O Yes No O Unk Can withdraw tightly	TXXXXI		XXXIII
into shell • Yes O No O Unk	V/XXXTX	XVIII IX	XXXXXXX
Limbs, head hanging O Yes ● No O Unk	1//74	PIIII	17 / 1 / I
Other notes	1/1-1-1-1-1		
Tatoise in burn	U. Unable t	o sex tortoise	
gular obstructi		- 101 1013	clue to plastron &
2000 000000	M & M.		5 - 201, 100.

o not abbreviate	Data Shee	t for Live Desert Tortoises	Write on this side only
Located by	KM, DR, SA	Tortoise ID #	•
Processed by	Dallas Rugh	Year first marked	***************************************
	Solx I		-
-		Verification of ID	LI , MY
Township Section	Range	Capture type	Sex UMK
		Date (dd/mm/yy)	23/05/67
oordinates (Refere		Time (PST): Start	End
	North meters East	Frequency	Transmitter #
UTM's 054852	6 n 3855548 e	Show location of Transmitter type	
Elevation	m Accuracy ± m		***************************************
	de State CA		ed on
-	•		
On Plot GOff	Plot	PIT #	
ortoise Locati	on	Burrow Data	C
	At cover site. Not at cover site.		Survey Type
2	☐ entering ☐ in open	ID# West	O Radio track O Burrow search
] pallet [	exiting Cother	Orientation Technique	O Coverage 1
	on mound	Length 3 feet Height 10 inches Width 14 inches Soil cover Sand	O Coverage 2
] caliche cave ] rock shelter	<b>⊠</b> inside L	Location	O Incidental — ● Other
- -			— • Other
ortoise Activit ∮resting □		ID & sex of other tortoise	4-5-1
	Interacting with other animals	Species	Focused
walking	Describe interaction:		Foursed Survey
l feeding			
lants/items eaten	(specific):		
	· · · · · · · · · · · · · · · · · · ·		
olor (shell & s	kin) HV Hue Value Chroma	Color	•
		Are you color blind? • O Yes	O Nic
V1 (cente	·   \ \   <del> </del>		•
V4 (cente		Type of blindness	
LC1,2&V2 (sea LM5,6 & LC2 (sea	1 1 1 1 1	Body Measurements	Behavior
Forele		MCL (mm)	
Hindle		PLN (mm)	
•		Weight (g)	į
Į	TO TOO	Void (g)	
$\mathcal{L}$		Total wt (g)	
$\mathcal{L}$	\	New growth	
>		present absent	
$\prec$		Epoxy #	
$\mathcal{L}$		present legible	
Y	$\forall  \uparrow \land \forall$	Other notes	
`			
	_		
	STIN		
$\mathcal{L}$	一		
1)	YYY	Photos; roll	
K	))	Draw locations of notches (old and	
L/	J   J   J/	Describe anomalies in numbering of margina	ls and any identification problems
$\mathcal{V}$	- YYY	Entered by date	T on computar
$\mathcal{O}$			on computer
~	J-1-1-1	Modified by on	© Berry 1997

Do not abbreviate Data She	et for Live Desert	Tortoises	Write on this side only
Located by M. HoHCR		Tortoise ID #	
Processed by		Year first marked	
Study site name		7 Verification of ID	7
Township Range		Capture type	Sex
Section Quadrat		Date (dd/mm/yy)	30 MAT 2007
Coordinates (Reference SW corner)			1615 End
meters North meters Eas	st (	Time (PST): Start	_ <u>/</u> `
		· ·	Transmitter #
UTM's 3852357 n 6546149 e	Show location of		
Elevation 1366 H Accuracy ±	m tortoise in quadra		
ountyState			ed on
O On Plot O Off Plot		PIT#	
Tortoise Location	Burrow Data	•	Survey Type
Cover site type: At cover site: Not at cover si	te:	·	O Radio track
burrow entering in open	Orientation		O Burrow search
☐ pallet ☐ exiting ☐ other☐ shrub ☐ on mound ☐		. Height	O Coverage 1
Caliche cave inside	Width	Soil cover	O Coverage 2 O Incidental
☐ rock shelter	1		-O Other
Tortoise Activity			
☑ resting ☐ interacting with other tortoise	<ul> <li>ID &amp; sex of other tortois</li> </ul>	se	
basking Interacting with other animals	Species	***************************************	
walking Describe interaction	FRISH TRACKS IN	SAND CUTSOR	
☐ feeding	GURROW		
Plants/items eaten (specific):			
<u></u>			
Color (shell & skin) HV Hue Value Chroma	a Color		
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LC1,2&V2 (seam)		, , , , , , , , , , , , , , , , , , , ,	
LM5,6 & LC2 (seam)	Boa	y Measurements	Behavior
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	Modified by	on	© Berry 1997
			-

January 1992	M/D/Y
A second to the	Date 4/1/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State
	County Sna Bounneding
,	city Baugfow
This form should be completed for those	Recorder Glen Kingshita
transects that contain one or more desert	Address
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Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	Type of Project
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forms should be compiled on a summary form.	Quad Name
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or Zone of Influence, the summary form should	TRSec
be completed. Please fill in all sections on	片 Sec 첫 Sec
the top 2/3 of the page of the summary form.	UTM Zone
1 ( 1,514 1,669	Northing
plotos: iiib, 6149	Easting
	Parcel No. 6-501, 6-502, 6-503, 6-569
Transect Length:  ft Width: 20 ft Other ft  Weather: Airtemp at: 5 cm 613 % Surface 67.0 % Cloud cove  Rainfall 0 in Wind speed 1 4 mpl Rainfall in last 3  Land Form (e.g., mesa, bajada, wash) woling hills  \$ Slope: high low x Aspect Elev  Soils Sandy w/ coules  Vegetation: dominant perennials Layres funderfolg  dominant annuals Amsinkin, Cryylantin  Adjacent Land Use: up to 1 mi house, old mine  Soils Sandy / coules	er O &  O days in  Pation 2413 ft  Aven provid  Averted
Vegetation Game	=======================================
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	ng Ravens Other
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was a second of the second of	
January 1992	W/D/W
	M/D/Y Date <b>*///0%</b>
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
,	
	County San Bernachino City Bargfon
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Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	र्भ Sec र्भ Sec
the top 2/3 of the page of the summary form.	UTM Zone
6794,6759	Northing
O 1 101 A	Easting
	Parcel No. 6-41, 6-770, 6-47
	•
DESERT TORTOISE HANDBOOK 1992:	
FORM FOR PRESENCE-OR-ABSENCE AND CLEARAN	
Project Site   Zone of Influence   ft from	
Transect Length:ft Width: 00 ft Otherf	
Weather: Airtemp at: 5 cm 78,1 %F Surface 67,5 %F Cloud of	cover /o_t
Rainfall O in Wind speed Worth Rainfall in las	st 30 daysin
Land Form (e.g., mesa, bajada, wash) volleng hill	
	Elevation 1735 ft
Soils gander w/ colble)	75 5 77
Vegetation: dominant perennials (*Vren tridentate Plure	his vigida
dominant annuals Busines Echseum & Con	
dominant annuals busines, Schiques, Con	franth
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Adjacent Land Use: up to 1 mi hause in the filine co	ovvidor grazedin yast
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- Corrected Live Shelter Sites Scats	<sup>2</sup> Shell
Sign Tortoigns Pallet/Purray/Par	Remains 3
Adult/Juv. Active/Inactive (15)	Vemeriia
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Tracks Eggshell Drinking Courtship Other N	eotoma Middens
· · · · · · · · · · · · · · · · · · ·	/sign :w/o sign
•	

Trash Dump Sites Tracks Footprints Sign Rifle Shells

Human

Dog

Blading Ravens Other

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Shotgun/

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

TORT 7 56 mil 3847156 Horn Lingth

6752- 6759

M/D/Y	
Date 4/4/08	
Transect No.	
State (A	_
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Address Address	Ť
Project Name Select	_
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PACE 別代 Quad Name Scale Site Name F R Sec 対す Sec UTM Zone	

DESERT TORTOISE HANDBOOK 1992: FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS Transect Length: \_\_ Weather: Airtemp at: 5 cm 78024 Surface 80.5 °C Cloud cover Rainfall in Wind speed 1-4 myh Rainfall in last 30 days in Land Form (e.g., mesa, bajada, wash) Volting hills

\* Slope: high low X Aspect HW Elevation 15 17 ft soils gonder we cololes, yel Vegetation: dominant perennials dominant annuals Adjacent Land Use: up to 1 mi race Soils Gaul Vegetation | Live Scats <sup>2</sup> Shell Corrected Shelter Sites Tortoises Pallet/Burrow/Den Adult/Juv. Active/Inactive 1 ##### 1111 F= . Unk= Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Human Dog Trash Dump Blading Ravens Other Shotgun/ Tracks Footprints Sign Sites Rifle Shells 1 10RTh 71270y 7847185 ~ 10 cm length in burvow 6756

January 1992

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the résults from the transect forms should be compiled on a summary form.

 $\hat{\mathbf{r}}$ f no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

6715-6717

M/ U///
Date 1/1908
Transect No.
StateCA
County Sau Bernardino
City Barston/Ludlow
Recorder Glan Linoshit
Address
Project Name Solor 6
Type of Project
Edal power site
Quad Name
Scale
Site Name
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남 Sec - 남남 Sec -
UTM Zone
Northing
Easting
arcel No. 1-519 1.50 1-61 1-27

FORM FOR PRESENCE AND CLEARANCE SURVEYS  Project Site	DESERT TORTOISE HANDBOOK 1992:
Project Site to Width: Off Other fft Time 7:51am 80  Wather: Airtemp at: 5 cm Log of Ft Surface (u.6 of Cloud cover 0 to Rainfall in Wind speed 10-15 ml Rainfall in last 30 days in Land Form (e.g., mesa, bajada, wash)  Land Follow Daja Majada, wash  Land Follow Daja Maja Maja Maja Maja Maja Maja Maja	FORM FOR PRESENCE OR ABSENCE AND CLEARANCE SURVEYS
Weather: Airtemp at: 5 cm	Project Site Zone of Influence   ft from Project Site
Rainfall in Wind speed 10-15-15-15 Rainfall in last 30 days in Wind speed 10-15-15-15 Rainfall in last 30 days in Land Form (e.g., mesa, bajada, wash)  * Slope: high low X - 5% Aspect 5W Elevation 2355 ft  Soils Quanter Volks, calles  Vegetation: dominant perennials (arrea friducida, A marcia dumbés, Kramevila 64-15-15-15-15-15-15-15-15-15-15-15-15-15-	The state of the s
Rainfall in Wind speed 10-15-ph Rainfall in last 30 days in  Land Form (e.g., mesa, bajada, wash)  * Slope: high low x = 500 Aspect SW Elevation 2355 ft  Soils	Weather: Airtemp at: 5 cm 65% of Surface (46 of Cloud cover 0
Land Form (e.g., mesa, bajada, wash)  * Slope: high low Low Aspect SW Elevation 2365 ft  Soils Quant, w Vecks, addes  Vegetation: dominant perennials Lavera juilules, A whethe sumes, Knamels of Majacent Land Use: up to 1 mi vade lower   Majacent Land Use: up to 1 mi vade lower   Majacent Land Use: up to 1 mi vade lower   Majacent Julians    Soils Sanc   Total NUMBER OF   Scats Shell    Sign Tortoises Pallet/Burrow/Den Remains    Adult/Juv. Active/Inactive    A= J= H H H H H H M	Rainfall () in Wind speed 10-15 wh Rainfall in last 30 days in
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Adjacent Land Use: up to 1 mi	
Adjacent Land Use: up to 1 mi	dominant annuals Anciakin, Schimur, Blantago
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Turnile: 10-12 cm vil Tokth Sbirth 1384694 btll (burrownt game rile) (?)	

TORTY 541571, 3847062 6252X

561767 386787 6743

TORT3 461694 1846832

TORTY

al Storting

(burrow at square site) male

(in burrow, gaw before going underground)
(in burrow-appears to be just final(1?)

WEKIKK, KM, TT January 1992 Date 4/2/08 (place a 4 X 6 photograph showing the Transect No. area where the transect was conducted) State CA County San Bernowhing City Bongfor This form should be completed for those Recorder Glen Kingslits transects that contain one or more desert Address tortoise sign. After the project site and Project Name Zone of Influence have been surveyed for Type of Project tortoise sign, the results from the transect forms should be compiled on a summary form. Quad Name Scale If no tortoise sign occurs on the project site Site Name or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form. UTM Zone 647-6679 Northing Easting Parcel No. 6-505-6506,6-507,6-508 DESERT TORTOISE HANDBOOK 1992: FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS Project Site | Zone of Influence | \_\_\_\_ft from Project Site Transect Length: \_\_\_\_ft Width: Off Other \_\_\_\_ft Time 9:35am 80acms Weather: Airtemp at: 5 cm 63.1 ° P Surface 63.) °C Cloud cover 9 8 Rainfall b in Wind speed y-low Rainfall in last 30 days in Elevation Vegetation: dominant perennials Lawren heldente dominant annuals Amsinking Adjacent Land Use: up to 1 mi hour, old win Soils Vegetation NUMBER OF Corrected Shelter Sites Scats 2 Shell Live Sign Tortoises Pallet/Burrow/Den Adult/Juv. Active/Inactive 1 

Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Dog Trash Dump Shotgun/ Blading Ravens Other Human

Tracks Footprints Sign Sites Rifle Shells

January 1992

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

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	Y/D/M			
Date _	1/2/04	3		,
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State	CA			
County	San	Bernan	Kinp	
City _	Barst	DW	<del></del>	٠,
Recorde	er G	In Ki	nodina	
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Project	Name	Sida	-6	
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남 Sec_	<u>.</u>	पि Sec		
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arcel N	0.64	24,64	71. 6-479	- 6

DESERT TORTOISE HANDBOOK 1992: FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS Project Site / Zone of Influence ft from Project Site ft Width: 20 ft Other ft Time 13:08 80 acres Transect Length: Weather: Airtemp at: 5 cm 81.1° F Surface # Cloud cover 7 & Rainfall O in Wind speed 510 ph Rainfall in last 30 days Land Form (e.g., mesa, bajada, wash) % Slope: high Aspect Elevation soils Gard, W/ collect larrea tridentala. Plumphis rigide Vegetation: dominant perennials Ansiakis, Cryptontha, Ocnthela dominant annuals house, old wine, area used for grazing Adjacent Land Use: up to 1 mi\_\_\_ NUMBER Corrected Live Scats 2 Shell Shelter Sites Sign Tortoises Pallet/Burrow/Den Adult/Juv. Active/Inactive 1 丰丰幸丰 Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Rifle Shells I H I H I N I

January 1992		м/р/ү	
	. •	Date 4/4/08	
(place a 4 X 6 photograph showing		Transect Nó.	····
area where the transect was cond	lucted)	State	
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transects that contain one or mor		Address	
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FORM FOR PRES  Project Site Zone of I  Transect Length: ft Wid  Weather: Airtemp at: 5 cm 70.0 °  Rainfall O in Wind  Land Form (e.g., mesa, bajada wa  * Slope: high low X  Soils Sawa w perkers  Vegetation: dominant perennials  dominant annuals Av  Adjacent Land Use: up to 1 mi  Soils Sawa	nfluence   Ot th: 30 ft Ot \$\frac{1}{2} \text{Surface } \frac{73}{2} \text{ or } \text{Rain} sh) Aspect   Lapped   Vidental to Sinkla	AND CLEARANCE SURVEYS  ft from Project Site 80.  her ft Time 10:14  F Cloud cover 50 % ( Hin, w)  fall in last 30 days in	reves LS/yy)
Vegetation Same			
			=
	NUMBER OF Shelter Sites Let/Burrow/Den Live/Inactive	Scats <sup>2</sup> Shell Remains <sup>3</sup>	
A=   J=	#### ################################	A= J= Unk=   M= F= Unk=	
Tracks Eggshell Drinking	Courtship Oth		
Fragments Sites	Rings	w/sign :w/o sign	
	1 1	: N	
SIGNS OF HUMAN	DISTURBANCE - NUM	: N HER AND TYPES SEEN	

Fred TORTI 560796, 1851212 20-22 cm (L) 6792 male

Dog

Dump

Shotgun/

Sites Rifle Shells

Blading Ravens Other

Human

Tracks Footprints Sign

•	M/D/Y
	Date w/u/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
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	County <u>San Burnon dina</u> City <u>Burgfou</u>
This form should be completed for those	Recorder Gen King Arts
transects that contain one or more desert	Address
tortoise sign. After the project site and	
Zone of Influence have been surveyed for	Project Name
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If no tortoise sign occurs on the project site	Site Name
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the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No. 3-313, 3-319, 3-315, 3-116
DECEDE CORROTOR UNIDECE 1000	W/GK, JJ, EK, KM, RK
DESERT TORTOISE HANDBOOK 1992:	
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE	
Project Site X Zone of Influence ft from P	roject Site
Transect Length: / ft : Width: 30 ft Other ft	Time /5/30
Weather: Airtemp at: 5 cm 853 of Surface 97,5 of Cloud cover	er %
Rainfall O in Wind speed 5-6mgh Rainfall in last :	30 days "
Land Form (e.g., mesa, bajada, wash)	Jo daysIII
	vation_ \036 ft
Soils Sandy W rocks	ration_1030ft
Vegetation: dominant perennials Lauren friderlata	<u> </u>
3-2	
dominant annuals Schismus	
Adjacent Tand Urg. up to 1 mi "( )	CET 1
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Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive  A= J= HHHHHH	Shell temains 3
Soils  Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1    A= J=   HIHIM   A= H= HIMIM   A= H= HIMIM   H= F= HIMIM   H= HIMIM   H= F= HIMIM   H= HIMI	Shell temains 3  J= Unk= Unk=  Oma Middens
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive    A= J=	Shell temains 3  J= Unk= Unk= Oma Middens
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive    A= J=	Shell temains 3  J= Unk= Unk= Oma Middens
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive    A= J=	Shell temains 3  J= Unk= Unk= Oma Middens
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2  Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HHHHHHH M= F=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si	Shell temains  J= Unk= Unk=  Oma Middens gn :w/o sign
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HIH HIH M H A=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES	Shell temains  J= Unk= Unk=  oma Middens gn :w/o sign
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HAPPEN M= F=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES  Tire Human Dog Trash Dump Shotgun/ Bladi	Shell temains  J= Unk= Unk=  Oma Middens gn :w/o sign
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HIH HIH M H A=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES	Shell temains  J= Unk= Unk=  oma Middens gn :w/o sign
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HAPPEN M= F=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES  Tire Human Dog Trash Dump Shotgun/ Bladi	Shell temains  J= Unk= Unk=  oma Middens gn :w/o sign
Vegetation  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 Sign Tortoises Pallet/Burrow/Den F Adult/Juv. Active/Inactive 1  A= J= HAPPEN M= F=  Tracks Eggshell Drinking Courtship Other Neot Fragments Sites Rings w/si  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES  Tire Human Dog Trash Dump Shotgun/ Bladi	Shell temains  J= Unk= Unk=  Oma Middens gn :w/o sign

January 1992

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

6798

M/D/X
Date 4/4/00
Transect No.
State Smather alian CA
County Say Brungano
city Bunglow
Recorder Glas Kindshitz
Address
Project Name Folar L
Type of Project
Pot golar power sin
Quad Name
Scale
Site Name
T R Sec
片 Sec ἡ Sec
UTM Zone
Northing
Easting
Parcel No. next to Pisgal addate

472 (NW corner)

							EARANCE SUI		
Pro	ject Site	<u> </u>	Zone of	Influence	1	f	t from Proj	ect Site .	~ 20
Transect :	Length: _		ft Wi	dth: 60 f	<u>ب</u>	Other _	ft	Time <u> </u>	7
Weather:	Airtemp	at:	5 cm <b>£6,</b> 7	%≠ Surf	ace <u> 45.</u>	<u>/</u> .°€# c:	loud cover	8 1 11	hin whity
	Rainfal	L	in Wind	speed /~/(	mih R	lainfall :	in last 30	days	in
Land Form	(e.g., r	nesa,	bajadá, w	ash)	7				<b>-</b> .
% S	lope: hid	gh	🔄 low_	<u> </u>	Aspec	t N/A	Elevat	ion 2097	ft
Soils				·		<del></del>			
Vegetatio	n: domina	int pe	rennials_	Larrea f	vidank	to, Ambr	१०१६ र्याप्य		
	domina	int an	nuals <u>Co</u>	aisesuia,	Ausia	ikis , Ch	inenactif		
Adjacent I	and Use:	up to	o 1 mi 7	VALAG WISS	en line	5 Vail V	and all mi	20.10.0	
Soils	9494	4		1014/ 1011 1.77		7, 11, 1	via / 610 ms	7.019	
Vegetati	Lon	Saar							
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Correcte	ed Li	.ve		Shelter	Sites	5	cats 2 She	11	•
Sign	Tort	oises	Pa	llet/Burr	w/Den		Rema	ains <sup>3</sup>	
	Adul	t/Juv		ctive/Inac					•
	∦ A=	J≃		4	L##	#	A=	J= Unk	
·	ч		u		ı w.	и М=		nk=	
Tracks	Eggsh	ell	Drinking	Courts	ship	Other	Neotoma	Middens	<del>**</del>
			_	Rings	_		w/sign	•	sign
		<b>===</b> ===		1		1	:		
		SIGNS	OF HIMA	I DISTURBE	NCF -	NUMBED A	ND TYPES SE	'EM	====
Tire	Human			sh Dump		Shotgun/		Ravens	O+ h o =
				Sites		le Shells	-	VGAGH2	ocuer
1	X	1	1 >	-	1		1		<del></del>

January 1992		M/D/Y,
(place a 4 X 6 photograph showing the area where the transect was conducted)	958	Date 4/5/08 Transect No. 3-/19 & 3-/20 E State
This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.  If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.	3-1120 950'	Recorder TO/RK/PW  Address Project Name Salar 3  Type of Project  Quad Name Scale Site Name  T R Sec 4 Sec 44 Sec UTM Zone W  Northing Easting Parcel No.
DESERT TORTOISE H  FORM FOR PRESENCE-OR-ABSENCE  Project Site   Zone of Influence      Transect Length: ft	E AND CLEARANCE SUR ft from Proje Other ft T C Cloud cover / Ainfall in last 30 d	cct Site Cime O % Cays O in Con /8/9 ft
Vegetation: dominant perennials Larra fride  dominant annuals Chaenasts Stev	nfata, Ambrisia di joides, Malacothrix gi	, , , , , , , , , , , , , , , , , , ,
Adjacent Land Use: up to 1 mi Soils Sandy & gravely Vegetation Crasskbosk stat	Scats <sup>2</sup> Shell Rema	ins 3  Unk=
Tracks Eggshell Drinking Courtship ( Fragments Sites Rings	Other <u>Neotoma</u> w/sign	Middens :w/o sign

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

| Glass | Plastic bags and Battle s | Campsites |

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

M/D/Y,
Date 4/5/01
Transect No. 3-147 3-145
State CA
County San Bergadine
City E of Barston
Recorder TO/RK/PW
Address
Project Name Solor 3
Type of Project
Quad Name
Scale
Site Name
T R Sec
र्भ Sec - भूभ Sec
UTM Zone
Northing
Easting
Parcel No.

FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS	
Project Site   Zone of Influence  ft from Project Site	
Transect Length:ft : Width: 30 ft Otherft Time	
Weather: Airtemp at: 5 cm °C Surface °C Cloud cover 7 %	
Rainfall () in Wind speed 15-25 Rainfall in last 30 days 72 in	
Land Form (e.g., mesa, bajada, wash)	
% Slope: high low Aspect Elevation 8/5 ft	
Soils	
Vegetation: dominant perennials Lorrer Videntata, Ambosia dumosa	
dominant annuals Charnactis Stevioides, Malacothrix glabrata, Camissonia Clavifor	mis
Adjacent Land Use: up to 1 mi Pailroad, 1-40 Interstate	
soils Sandy to gravely	
Vegetation Crossfebush survis	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Scats 2 Shell	
Sign Tortoises Pallet/Burrow/Den Remains 3	
Adult/Juv. Active/Inactive 1	
A= J=    A= J= Unk=	
"M= F= Unk=	
Tracks Eggshell Drinking Courtship Other <u>Neotoma</u> Middens	
Fragments Sites Rings w/sign :w/o sign	
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN  Tire Human Dog Trash Dump Shotgun/ Blading Bayens Other	
J Diading Ravells Other	
Tracks Footprints Sign Sites Rifle Shells	
Yes   campsizes   Glass	
Plastic base	
Yes   Campshes     Glass	
and bittles	

January 1992	<del>м/</del> р/х
	Date <u>4/5/08</u>
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State
	County Sala Peve
mbia can abanda ba assabat be a	City Barston
This form should be completed for those	Recorder Jeff Jah
transects that contain one or more desert	Address
tortoise sign. After the project site and Zone of Influence have been surveyed for	Project Name $SES$
tortoise sign, the results from the transect	Type of Project
forms should be compiled on a summary form.	Solar power sout
Totals should be complied on a summary form.	Quad Name /i/9 - /
If no tortoise sign occurs on the project site	Scale
or Zone of Influence, the summary form should	Site Name
be completed. Please fill in all sections on	T R S
the top 2/3 of the page of the summary form.	북 Sec 북북 Se UTM Zone
1	Northing
· ·	Easting
	Parcel No.
	<del></del>
DESERT TORTOISE HANDBOOK 19	92:
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	RANCE SURVEYS
Project Site   Zone of Influence  ft :	from Project Site
Transect Length:ft / Width: 30 ft Other	
Weather: Airtemp at: 5 cm °C Surface °C Clou	d cover /  \bar{\bar{\bar{\bar{\bar{\bar{\bar{\bar{
Rainfall on Wind speed 20-25 Rainfall in	last 30 daysin
Land Form (e.g., mesa, bajada, wash) braided grand	
* Slope: high low X Aspect NA	Elevation 1962 ft
soils Sandy + couply	
Vegetation: dominant perennials Larra tradutata, Ambru'	14 Sundle
dominant annuals (	
dominant annuals Chartes, Gaeraca	
Adjacent Land Use: up to 1 mi Railroad (RAISF) - I-40	
soils sandy colle	
Vegetation Larreale herria	
######################################	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Sca	ts <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	
A = ()	A= J= Unk=
/ / M=	F= Unk=
Tracks Eggshell Drinking Courtship Other	Washington William
33	Neotoma Middens
Fragments Sites Rings	w/sign :w/o sign

Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign :w/o sign

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

• •	
7	<del></del>
January 1992	( 1/0/K2 md
(place a 4 X 6 photograph showing the	Date 4/8/2007
area where the transect was conducted)	Transect No. 6-
and whole the control was contacted,	State CA
	County Sin Born
This form should be completed for those	City Ba-sow
transects that contain one or more desert	Recorder Address
tortoise sign. After the project site and	Project Name 55
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	solar pour
forms should be compiled on a summary form.	Quad Name
•	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R
be completed. Please fill in all sections on	र्भ Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No.
DESERT TORTOISE HANDBOOK 19	202
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	
Project Site   Zone of Influence  ft	from Project Site
Transect Length:ft Width: 30 ft Other	ft Time W.37 Am
Weather: Airtemp at: 5 cm °C Surface °C Clo	
Rainfall of in Wind speed 20 25 Rainfall in	last 30 days in
Land Form (e.g., mesa, bajada, wash)	•
% Slope: high low X Aspect NA	Elevation 19,6 ft
soils smay w/ Wholes	
Vegetation: dominant perennials Larren tributata	ambrolia chimosa
dominant annuals Garrago, Chinactis	
Adjacent Land Use: up to 1 mi - W BNSF Raileo	/
soils sandy who lakes	A.V
Vegetation larrey, Ambrosia	
*======================================	
TOTAL NUMBER OF	·
Corrected Live Shelter Sites Sca	its <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	
A= J=	A= J= Unk=
M=	F= Unk=
Tracks Freshall 2 it is	
Tracks Eggshell Drinking Courtship Other	Neotoma Middens
Fragments Sites Rings	w/sign :w/o sign
	*
SIGNS OF HUMAN DISTURBANCE - NUMBER AND	TYPES SEEN
Tire Human Dog Trash Dump Shotgun/	Blading Ravens Other
Tracks Footprints Sign Sign Sites Rifle Shells	girt roof

Rifle Shells

Tracks Footprints Sign Swelly Sites

January 1992	
± · · · · · · · · · · · · · · · · · · ·	M/D/Y
	Date/KINS
(place a 4 X 6 photograph showing the	( <u>L. 21 . U . 1 </u>
	Transect No. 3-197 / 3-208
area where the transect was conducted)	State A Wester
	County San Byrading half
	City Barolow
This form should be completed for those	
	Recorder Left Johnson
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name
. Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	<del></del>
forms should be compiled on a summary form.	Out of Mana
Torms Should be complied on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	र्भ Sec र्भूभ Sec
the top 2/3 of the page of the summary form.	UTM Zone
- ,	Northing
	Easting
	Parcel No.
DESERT TORTOISE HANDBOOK 1992:	
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE S	SURVEYS
Project Site   Zone of Influence   ft from Pr	
Transect Length:ft Width: 30 ft Otherft	Time 2:15 on
Weather: Airtemp at: 5 cm °C Surface °C Cloud cove	
Rainfall in _ Wind speed_S-lO Rainfall in last 3	O days in
Land Form (e.g., mesa, bajada, wash)	
	ation 1887 ft
soils Sandy with cotales	
Vegetation: dominant perennials less tridulate, Ambiasia dumo	<u> </u>
<u>·</u>	
dominant annuals Genathor sterringles, Comptantin sp.	malacothrix glabrata
	malacothrix glabrata
	malacothrix glabrata
	Malacothrix glabrata
Adjacent Land Use: up to 1 mi BNSF naulroud I-41) Soils Sandy w/ Colobles	malacothrix glabrata
Adjacent Land Use: up to 1 mi BNSF naulroud I-41) Soils Sandy, w/ ( clobbles	Malacothrix Glabrata
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandy w/ clothes  Vegetation Carres / Ambrook	Malacothrix Glabrata
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Cobbles  Vegetation Carres / Ambrosic  TOTAL NUMBER OF	
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Obbles  Vegetation Carres / Ambushi  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S	hell
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Obbles  Vegetation Cance / Ambusei  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re	
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Obbles  Vegetation Carres / Ambushi  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S	hell
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Obbles  Vegetation Cance / Ambusei  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re	hell
Adjacent Land Use: up to 1 mi BNSF naulrond I-41)  Soils Sandr w/ Colobis  Vegetation Carray Ambrotic  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1	hell mains 3
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Obbles  Vegetation Total NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1	hell emains 3  J= Unk=
Adjacent Land Use: up to 1 mi BNSF naulroud I-41)  Soils Sandr w/ Colobles  Vegetation Carray Ambrook  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1	hell mains 3
Adjacent Land Use: up to 1 mi BNSF naulrond I-41  Soils Sand w/ Obbles  Vegetation Total NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1    A= J=	hell emains 3  J= Unk= Unk=
Adjacent Land Use: up to 1 mi BNSF naulrond II-41)  Soils Sand W/Obbles  Vegetation Carres / Ambuses  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re Adult/Juv. Active/Inactive 1    A= J=	hell emains  J= Unk= Unk=  Unk=
Adjacent Land Use: up to 1 mi BNSF naulrond I-41)  Soils Sandr w/ Obbles  Vegetation Carres / Amhroni  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1    A= J=	hell emains 3  J= Unk= Unk=
Adjacent Land Use: up to 1 mi BNSF naulrond II- 41)  Soils Sandr w/ Obbles  Vegetation Carre / Ambuser  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1    A= J=	hell emains  J= Unk= Unk=  Unk=
Adjacent Land Use: up to 1 mi BNSF naulrond II- 41)  Soils Sandr W/ Obbles  Vegetation Carres / Ambuser  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re Adult/Juv. Active/Inactive 1    A= J=	hell emains  J= Unk= Unk=  Unk=
Adjacent Land Use: up to 1 mi BNSF naulrond II- 41)  Soils Sandr w/ Obbles  Vegetation Carre / Ambuser  TOTAL NUMBER OF  Corrected Live Shelter Sites Scats 2 S  Sign Tortoises Pallet/Burrow/Den Re  Adult/Juv. Active/Inactive 1    A= J=	hell emains  J= Unk= Unk=  Unk=
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign
Adjacent Land Use: up to 1 mi	hell mains  J= Unk= Unk=  Unk=  ima Middens in :w/o sign

- brostic diamid

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

M/D/Y
Date 04/05/08
Transect No.3-199 to 3-200
State California
County
City
Recorder JR Charactics
Address
Project Name Schor 3
Type of Project
Desert tertorse sure.
Quad Name
Scale
Site Name Solor 3
TRSec
북 Sec - 북북 Sec -
UTM Zone
Northing
Easting
Parcel No

		FOR	M FOR PR	ESENCE-OR-	-ABSENCE A	ND CLE	ARANCE SURV	EYS	
Pr	oject Site	e	Zone of	Influence		ft	from Projec	t Site	
Transect	Length:	(Gad) f	t : Wi	dth: 30 f	t ROSL OL	her S	oft Ti	me 121	TZL) Z
Weather:	Airtemp	at: 5	cm 85	°C Surf	ace °	$c \frac{\overline{c_{1o}}}{c_{1o}}$	ud cover &	5 %	
	Rainfal	ıøi	n Wind	speed %-	Na Rain:	fall in	last 30 da	vs &	in
Land For	m (e.g., :	mesa, b	ajada, w	ash)	Jada La	Ne			-,-
8	Slope: hi	gh	low	·	Aspect (	. S	Elevatio	n	ft
Soils	-								
Vegetati	on: domina	ant per	ennials_	cress	et-past				
	domina	ant ann	uals						
		11.C G111.							
Adiacent	Land Use:	up to	1 mi	25 = Z		9 45		<u> </u>	
Soils			<del></del>	( 1-3 / a	roperi	Jear-	<u> </u>	······································	
Vegeta	tion								
======:				=======================================		======			======
			TOTA	L NUMBI	ER OF				
Correct	ted Li	lve		Shelter	<del></del>		ats <sup>2</sup> Shell	ı	
Sign	Tort	oises					Remai	_	
,	and the second s			ctive/Inac			rema I		
			·· 		=======================================				
	# A=	J≐	1	1111		I	A= J:	= Unk=	
	ų		u			⊪ M=	F= Unk		
						••			
Tracks	Eggsh	ell	Drinking	Courts	hip Oth	er	Neotoma N	liddens	<del></del>
	Fragme	ents	Sites	Rings	;		w/sign		sian
				1	1		:		
******	.========	======				======	=========		====
		SIGNS	OF HUMAI	N DISTURBA	NCE - NUM	BER AND	TYPES SEEN	1	
Tire	Human						Blading F		ther
Tracks	Footprin	ts Sid					<b>J</b>		
								·	
	1	, {	1			[	1	11	
								-	

A Company of the Comp	
January 1992	
1	M/D/Y
(place a 4 X 6 photograph showing the	Date
area where the transect was conducted)	Transect No.3-201 to 3-204 State Ca
	County San Dernading
This form should be completed for those	city <u>Barston</u>
transects that contain one or more desert	Recorder July Johnson
tortoise sign. After the project site and	Address V() V
Zone of Influence have been surveyed for	Project Name SES
tortoise sign, the results from the transect	Type of Project
forms should be compiled on a summary form.	Solar pour plas Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	4 Sec 44 Sec
the top 2/3 of the page of the summary form.	UTM Zone
•	Northing
	Easting
	Parcel No.
DESERT TORTOISE HANDBOOK 199	92:
FORM FOR PRESENCE-OR-ABSENCE AND CLEAF	RANCE SURVEYS
	rom Project Site
Transect Length:ft : Width: 30 ft Other	ft Time
	d cover Ø %
Rainfall in Wind speed / Rainfall in	last 30 days in
Land Form (e.g., mesa, bajada, wash) brounded grand	
% Slope: high low Aspect	Elevation 1921 ft
soils sand with cobbler	
Vegetation: dominant perennials lanea dridulata	
anbrosit dumosa	
dominant annuals Garage Chehartis Ster	1. odes
Advagant Land Uga up to 1 -	
Adjacent Land Use: up to 1 mi T-40 Soils Sond ul/ Soll.	
is a second	
vegetation (nove Ambros: a	
	*======================================
TOTAL NUMBER OF Scat	2 2 3
	9
	Remains
Adult/Juv. Active/Inactive 1	/ (7.)
A= J=   (+1K)	1
" " " " " " " " " " " " " " " " " " " "	A= J= (Unk=)
( MI C) M=	F= Unk=
Tracks Eggshell Drinking Courtship Other	Washing Wildia
	Neotoma Middens
Fragments Sites Rings	w/sign :w/o sign
SIGNS OF HUMAN DISTURBANCE - NUMBER AND	TYDEC CEEN
	Blading Ravens Other
Tracks Footprints Sign Sites Rifle Shells	brading navens Other

plostic 4/minner

1)\

January 1992	M/D/Y
•	Date 04/05/08
(place a 4 X 6 photograph showing the	Transact No 3
area where the transect was conducted)	Transect No. 3-225 4 3-228
wall miles the transfer and thingelies;	State California
	County
This form should be completed for these	City
This form should be completed for those	Recorder Jechaspenties
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Solow 3
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	Descritorios se succesar
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name Salar 3
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	片 Sec 남 Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No.
DESERT TORTOISE HANDBOOK 19	·
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	
Project Site   Zone of Influence   ft f	from Project Site
Transect Length: 1620 ft Width: 30-ft 1074 Other	ft
Weather: Airtemp at: 5 cm 76 % Surface °C Clou	id cover Ø %
Rainfall in Wind speed 4-7 mgm Rainfall in	last 30 days 💋 in
Land Form (e.g., mesa, bajada, wash) boyada, valle.	
* Slope: high low Aspect	Elevation ft
Soils	
Vegetation: dominant perennials ( ) oblabo book press	
dominant annuals transfer steviesties	
Reliance Tand II	
Adjacent Land Use: up to 1 mi natural and Space, 55:	Loal
Vegetation	
***************************************	
TOTAL NUMBER OF	·
	ts <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/(Inactive)	

Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells 111 1 11

J= | 111 | 111

(place a 4 X 6 photograph showing the
 area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

ַ א/ס/א
Date 04/05/08
Transect No. 3-250 45 3-25
State California
County
City
Recorder Je Charpentine
Address
Project Name Salor 3
Type of Project
Desart tentions since
Quad Name
Quad Name
Scale
Scale Site Name Salar 3 T R Sec
ScaleSite Name
Scale Site Name Select R Sec H Sec HH Sec UTM Zone
Scale Site Name S의 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중
Scale Site Name Sec Sec Yasec UTM Zone Northing Easting
Scale Site Name S의 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중 중

FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS
Project Site   Zone of Influence  ft from Project Site
Transect Length: 1620 ft : Width: 30 ft 8054 Otherft Time \500 Lust
Weather: Airtemp at: 5 cm 65 ° Surface °C Cloud cover 68
Rainfall 4 in Wind speed 4-7 Rainfall in last 30 days 6 in
Land Form (e.g., mesa, bajada, wash) bosada, walley
% Slope: high low Aspect Elevation ft
Soils
Vegetation: dominant perennials Creaseste bash
dominant annuals
Adjacent Land Use: up to 1 mi natural agen space, 36 station
Soils
Vegetation
TOTAL NUMBER OF
Corrected Live Shelter Sites Scats 2 Shell
COLLECCED DIAE SUBILER SITES SCATS SUBIL
Sign Tortoises Pallet/Burrow/Den Remains 3
Sign Tortoises Pallet/Burrow/Den Remains 3 Adult/Juv. Active Inactive 1
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1  A= J=       A= J= Unk=
Sign Tortoises Pallet/Burrow/Den Remains 3 Adult/Juv. Active Inactive 1
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=                 A= J= Unk=  M= F= Unk=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=                 A= J= Unk=  M= F= Unk=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=
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Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active/Inactive 1    A= J=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active(Inactive) 1    A= J=
Sign Tortoises Pallet/Burrow/Den Remains 3  Adult/Juv. Active/Inactive 1    A= J=

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

800

m/U/I /
Date 4/5/08
Transect No.
State CA
County Sau Bernaudino
city Banstow
Recorder Glen Kinoshita
Address
Project Name 40/uv 3
Type of Project pet
goloo pover sire
Quad Name
Scale
Site Name
TRSec
북 Sec - 북북 Sec
UTM Zone
Northing
Easting
Parcel No. 3-47 3-3/4 3-4/9

					ARANCE SURVEYS	
Proje	ct Site X	Zóne of In	fluence	ft	from Project Sit	e BO acus
rransect re	engta:	IT WICE	n: 30 ft	Other U	り ft Time	9:15
Weather: A	irtemp at:	5 cm 65.5 0	F Surface	(5,9 % F Clo	ud cover O %	<del>*</del>
R	lainfall D	in Wind s	peed 15/10 m	Rainfall in	last 30 days_	in
Land Form (	e.g., mesa,	bajada, was	h)	•	<del>-</del>	
% Slo	pe: high	low_X	As	pect A/A	Elevation Lo	51 . ft
Soils	•	•		ı		····
Vegetation:	dominant p	erennials	avven tri	est. la		
	_					
	dominant a	nnuals_Chac	na clib			
•		,				
	nd Use: up	to 1 mi	· · · · · · · · · · · · · · · · · · ·			
Soils	<del></del>	<del></del>				
Vegetatio	n					
=========	========	========	=======	=======================================		=======
		TOTAL	NUMBER		_	
	Live		Shelter Si	<b>tes</b> Sca	its <sup>2</sup> Shell	
Sign		s Palle			Remains <sup>3</sup>	
	Adult/Ju	v. Act	ive/Inacti	ve 1		
·						
	A= J=	1	<del>1117</del>		A= J= 1	Jnk=
				M=	F= Unk=	
Tracks	Eggshell	Drinking	Courtshi	p Other	Neotoma Midde	ns
	Fragments	Sites	Rings		w/sign :v	
			1	1	:	
	=======================================		*****			
	SIG	YS OF HUMAN I	DISTURBANC	E - NUMBER AND	TYPES SEEN	
Tire		og Trash	Dump	Shotgun/	Blading Ravens	Other
Tracks Fo	ootprints :	Sign	Sites	Rifle Shells	-	
		***				
			1		<u> </u>	1
<u> </u>	<u> </u>		#		u	
			······································			

	140						
		•					
January 1992			M/D/Y.				
_		•	Date 4/5/09				
(place a 4 X	6 photograph	showing the	Transect No.				
area where t	the transect w	as conducted)	State CA	<del>-</del>			
			County GanBernarting	- 1 1			
			City Burstow	<u>_</u>			
This form sho	ould be comple	Recorder Colen Kingshill	Ē				
transects tha	at contain one	Address	_1				
tortoise sign	n. After the	Project Name Spray 3	<u></u>				
Zone of Influ	ience have bee	Type of Project	_				
tortoise sign	n, the results						
forms should	be compiled of	a a summary form.	Quad Name	<del>-</del>			
			Scale	<del></del>			
		on the project site	Site Name	_			
		summary form should	TR_Sec				
		in all sections on	북 Sec 북북 Sec	_			
the top 2/3 of the page of the summary form.			UTM Zone	_			
	6801		Northing				
			Easting	_			
			Parcel No. 3-285,528 3	~187,5~LB			
		DESERT TORTOISE HANDBOOK	1992.				
	FORM F	OR PRESENCE-OR-ABSENCE AND C					
Project		e of Influence  f		•			
Transect Leng	th: / ft	Width: 30 ft Other	ft Time 12:47				
Weather: Air	temp at: 5 cm	77.7°6 F Surface H.B OF	Cloud cover O &				
Rai	nfall $\mathcal{D}$ in	Wind speed 5-10 kg Rainfall	in last 30 days in				
Land Form (e.	g., mesa, baja	da, wash)					
	: high		Hall Elevation 2069 ft				
Soils Gondy	Soils Gardy w/ Colules						
Vegetation: dominant perennials Lavuca faidculata, Autuosia dumosa							
				***			
d	ominant annual	5 Cryptanting, Gerea,					
· <u> </u>							
	Use: up to 1	mi					
Soils	<del></del>						
Vegetation_							
	<del></del>	TOTAL NUMBER OF	2				
Corrected	Live		Scats Shell				
Sign	Tortoises	Pallet/Burrow/Den	Remains 3				
	Adult/Juv.	Active/Inactive 1					
		· ·					

∥ A= J= Щ Unk= Unk= Tracks Eggshell Courtship Drinking Other Neotoma Middens Fragments Sites Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Tracks Footprints Sign Sites

Rifle Shells

· ·	
January 1992	v to to
*	M/D/Y
(place a 4 X 6 photograph showing the	Date 04/06/08
area where the transect was conducted)	Transect No. 6-409 to 6-412
	State
	County
This form should be completed for those	City
transects that contain one or more desert	Recorder SP Charpenties
tortoise sign. After the project site and	Address
Zone of Influence have been surveyed for	Project Name
tortoise sign, the results from the transect	Type of Project
forms should be compiled on a summary form.	Desert tortaine survey
Total Should be complied on a summary total.	Quad Name
If no tortoise sign occurs on the project site	Scale
or Zone of Influence, the summary form should	Site Name
be completed. Please fill in all sections on	T R Sec 44 Sec
the top 2/3 of the page of the summary form.	남 Sec 남남 Sec UTM Zone
t , and page of one banance, total.	**************************************
	Northing
	Parcel No.
Vegetation	oject Site  Time 1305 WST  Time 1305 WST  To get a sin  ation ft  The site of
Sign Tortoises Pallet/Burrow/Den Re Adult/Juv. Active/Inactive 1  A= J= A=	Shell emains  J= Unk=
M= F=	Unk=

Tracks Eggshell Drinking Courtship Other Neotoma Middens
Fragments Sites Rings w/sign :w/o sign

:

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other
Tracks Footprints: Sign Sites Rifle Shells

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	Mark
January 1992	WIDLY +
	Date VILLOR
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State (A
·	County Gan Veryanding
	City Parson
This form should be completed for those	Recorder Clar time (f-
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Sml
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	pot solar nover st
forms should be compiled on a summary form.	Quad Name
· · · · · · · · · · · · · · · · · · ·	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	र्भ Sec - र्भूम Sec
the top 2/3 of the page of the summary form.	UTM Zone
6827	Northing
A second	Easting
	Parcel No. 6 513, 6-514, 6-575, 6 916
Transect Length: 1900 ft Width: 30 ft Other Weather: Airtemp at: 5 cm 16.7 °FF Surface 66.2 °FF Cloud Rainfall of in Wind speed 6-10 my Rainfall in Land Form (e.g., mesa, bajada, wash)  * Slope: high   low   Aspect 4 9 facing Soils   Sand of W   16   165 Vegetation: dominant perennials   Laures 400 deuts fa   A	ud cover 0 % last 30 days 6 in
dominant annuals Chuissonia Checi & anthe	degert duradelier Ausirkia
G Chigwag	F \ \ It
Adjacent Land Use: up to 1 mi <u>vadio tower, transmiggio</u> Soils 56a.1	egline i muster grount pipeline
Vegetation Sauc	
TOTAL NUMBER OF	
	ats <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	11011102110
A= J=	A=    J= Unk=
" " " " " " " " " " " " " " " " " " "	F= Unk=
Tracks Eggshell Drinking Courtship Other	Neotoma Middens
Promote Cina Biana	1-1-

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other

Tracks Footprints Sign Sites Rifle Shells

January 1992

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

1839

и/о/х
Date 4/1/08
Transect No
State
County San herus chino
City Baystow
Recorder Chy Kinglate
Address
Project Name Golavi
Type of Project
yot, solar power site
Quad Name
Scale
Cinn Maria
Site Name
T R Sec
T R Sec
T R Sec 남 Sec 남남 Sec
T R Sec 남 Sec 남 Sec UTM Zone

DESERT TORTOISE HANDBOOK 1992: FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS Project Site |X | Zone of Influence | \_\_\_\_ft from Project Site 80 acus Transect Length: ft Width: 30 ft Other ft Time 17.00 Weather: Airtemp at: 5 cm 79 M of Surface 81.0 of Cloud cover 5 8 Rainfall O in Wind speed 5-7mh Rainfall in last 30 days Aspect 9 facing % Slope: high X low Elevation LH9 Vegetation: dominant perennials Lawren frigulary dominant annuals Anginking Adjacent Land Use: up to 1 mi Madie tower, und revound Soils Same Vegetation \_\_\_\_\_ NUMBER Corrected Shelter Sites Scats 2 Shell Live Sign Tortoises Pallet/Burrow/Den Adult/Juv. Active/Inactive | A= | J= M=| F= Unk=|Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Rings w/sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

He near in this quad

January 1992	M/D/Y
(place a 4 X 6 photograph showing the area where the transect was conducted)	Date + 608 Transect No. State
This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.	Recorder Alcorder Address  Project Name Solou b  Type of Project  Quad Name
If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.	Scale Site Name  T R Sec 4 Sec UTM Zone Northing Easting Parcel No.6-397,398,399400
DESERT TORTOISE HAND FORM FOR PRESENCE-OR-ABSENCE TORTOISE HAND Project Site   Zone of Influence   Transect Length: ft Width: 30 ft Ot Weather: Airtemp at: 5 cm °C Surface °C Surface °C Rainfall Now North	AND CLEARANCE SURVEYS ft from Project Site herft Time C Cloud cover%
Adjacent Land Use: up to 1 mi Call Date Du Soils 5 and 5 mall to million Johk Vegetation	all Tomanission lives
TOTAL NUMBER OF Corrected Live Shelter Sites Sign Tortoises Pallet/Burrow)Den Adult Juv. Active/Inactive 1	Scats 2 Shell 250mm 4150mm 41tonl 4 Remains 3 0558287 13850920 Auto# 300
A= J=	A= J= Unk=
Fragments Sites Rings	ner Neotoma Middens 0558261 38508 W/sign :w/o sign 35045
1. Buron 1	tracks in
SIGNS OF HUMAN DISTURBANCE - NUM Tire Human Dog Trash Dump Shot Tracks Footprints Sign Sites Rifle	Shells  The Blading Ravens Other 3003 (79586)
Inachre Tortoise	Seereverse Photo 303 4scolinside

January 1992	M/D/Y
,	Date 04/06/08
(place a 4 X 6 photograph showing the	Transect No. 6 409 A. C
area where the transect was conducted)	State $(p-373-6)$
<b></b>	County
	City
This form should be completed for those	
transects that contain one or more desert	Recorder JR Charpenti
tortoise sign. After the project site and	Address
Zone of Influence have been surveyed for	Project Name Solor Co
<del>-</del>	Type of Project
tortoise sign, the results from the transect	Desort furtise sun
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	TRSec
be completed. Please fill in all sections on	북 Sec 북북 Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No
Weather: Airtemp at: 5 cm SUP & Surface Cl Rainfall in Wind speed 7-12mm Rainfall i Land Form (e.g., mesa, bajada, wash) boyology (allege) Soils Soils	n last 30 days in  Elevation ft
Vegetation: dominant perennials Creosche bush	
dominant annuals	
Adjacent Land Use: up to 1 mi Interntate 40, under	grand gas line eletrical transm
Soils	0 0
Vegetation	17,
	tacha
TOTAL NUMBER OF	•
	cats <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	
A= J=    1111	A= J= Unk=
M=	F= Unk=
Typeles Perchall Duighing Countries Other	
	Montage Widden
Tracks Eggshell Drinking Courtship Other Fragments Sites Rings	Neotoma Middens

Tire Human Dog Trash Dump Shotgun/ Tracks Footprints Sign Sites Rifle Shells

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

,

Shotgun/ Blading Ravens Other

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.



M/D/Y
Date
Transect No. Wol 6-477 +0
State CA
County San Bernading
City Barstow
Recorder Jeff Sommon
Address
Project Name 525
Type of Project
Solar Power
Quad Name
Scale
Site Name
TRSec
북 Sec 북북 Sec
UTM Zone
Northing
Easting
Parcel No

				E HANDBOOK I	•		
					ARANCE SURVEY		
Pro	ject Site	Zone of Ir	nfluence	ft	from Project	Site	
Transect 1	Length:	ft Widt	:h: 30 ft	Other	ft Time oud cover 7 1 last 30 days	= 12:10 pm	
Weather:	Airtemp at		Surface	°C Clo	ud cover A	8	
	Rainfall ()	in Wind	speed 1075	Rainfall in	last 30 days	in in	
Land Form	(e.g. mesa	., bajada, was	$\frac{1}{4}$	(			
% S	lope: high	low X	Ast	pect NA	Elevation	22.2-7 ft	_
Soils	. 5/	indy w/cdsbl	20				
Vegetation	n: dominant	perennials	1000	tradent et	~ Ambros	Che the wills	-
				10 road vaca	~ + n mpros	14 MANORUL	_
	dominant	annuals <u>Mal</u>	colorix gla	brata, S	Lismus arabicu	s, Chenackis	Stevoido
Adiacent I	Land Use: ur	to 1 mi	I-40 R	NSF nachon	,		_
Soils_	_	y w/cobbler		VOST A BEZZEON	<u> </u>		-
Vegetat:			/andorosis		\ \		-
=======		==========	7 (2003)(17 (73 -			=======================================	-
		TOTAL.	NUMBER	OF.		•	
Correcta	ed Live				ats <sup>2</sup> Shell		
		es Pall			Remains	3	
519.1		uv. Act			remarns		
	Additoyo	uv. Acc	.ive/inactiv	'e			
	A= J	<b>=</b>	144		A= J= F= Unk=	Unk=	
Tracks	Eagshell	Drinking	Courtshir	Other	Neotoma Mi	ddens	
		Sites			w/sign		
	]	1	1	S	:		
						========	
	SI	GNS OF HUMAN	DISTURBANCE	- NUMBER AN	D TYPES SEEN		
Tire	Human	Dog Trash	Dump	Shotgun/	Blading Ra	vens Other	
Tracks	Footprints:	Sign					
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	<b>∕</b> :	
January 1992	м/р/ү	
A to C abote manage to the total	Date 40	
(place a 4 X 6 photograph showing the	Transect No.	
area where the transect was conducted)	State NV	
	County	
This form should be completed for these	City	· ·
This form should be completed for those	Recorder 4	χ <u>ν</u>
transects that contain one or more desert	Address	<del></del>
tortoise sign. After the project site and Zone of Influence have been surveyed for	Project Name	≥obr 6
tortoise sign, the results from the transect	Type of Project	· Dosent
forms should be compiled on a summary form.	TU(12 S)	men
Totals should be complied on a summary form.	Quad Name	
If no tortoise sign occurs on the project site	Scale	<u> </u>
or Zone of Influence, the summary form should	Site Name T R	Sec
be completed. Please fill in all sections on	<del></del>	Sec
the top 2/3 of the page of the summary form.	UTM Zone	
	Northing	
	Easting	
	Parcel No. 10-369	370 311 37 )
DESERT TORTOISE HANDBOOK 19		
FORM FOR PRESENCE-OR-ABSENCE AND CLEA		At distal
Project Site   Zone of Influence   ft		(Selver)
Transect Length: ft Width: 30 ft Other		Jack
Weather: Airtemp at: 5 cm °C Surface °C Clou	ud cover O \$	
Rainfall O in Wind speed Rainfall in Land Form (e.g., mesa, bajada, wash)	last 30 daysin	
% Slope: high low Aspect	Elevation ft	<del></del>
soils Condy small to not woode	DIC V dC TON	
Vegetation: dominant perennials Calonde		<del>-</del>
		_ ``
dominant annuals		_
		_
Adjacent Land Use: up to 1 mi Raelinas pinkly	Remonissionlies	<del>-</del>
Soils		_
Vegetation		- ACTIVE PACKED BURELOW
		==
TOTAL NUMBER OF	2	TAUCCO
	its <sup>2</sup> Shell	Sacrim
Sign Tortoises Pallet/Burrow/Den	Remains	HHT IH
Adult/Juv. Active/Inactive 1		-1111 x
n_	fl	HT 11
A= J=	A= J= Unk=	A 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M=	F= Unk=	<u> </u>
Tracks Eggshell Drinking Courtship Other	Nootona Vidde	tox borons
Tracks Eggshell Drinking Courtship Other Fragments Sites Rings	Neotoma Middens	Billow.
rraducines arces utilida	w/sign :w/o sign	Fox Borows Burrow complexes
		Court
**	•	111
SIGNS OF HUMAN DISTURBANCE - NUMBER AND	TYPES SEEN	
		, ,

Shotgun/

Rifle Shells

Dump

Sites

Blading Ravens Other

Human

Tracks Footprints Sign

Dog

Trash

1 cas

January 1992	M/D/X
(alass a A V C ababaguanh abassian tha	Date 4/15/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County Say Bevugeding
	city Bouston
This form should be completed for those	Recorder
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Golow !
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T_ R Sec
be completed. Please fill in all sections on	남 Sec 남남 Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel, No. 1-1,1-2,1-3,1-9
	m/ Chois Fine store
DESERT TORTOISE HANDBOOK 19	
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	from Project Site
Transect Length: 1900 ft : Width: 00 ft Other	- · · · · · · · · · · · · · · · · · · ·
Weather: Airtemp at: 5 cm 697 % Surface 4 7 % Clou	
Painfall (7)	last 30 days in
KALILALI (/ IN WING SDPPO/9 S7mi Raintall in	
Rainfall on Wind speed 15-25 mm Rainfall in Land Form (e.g., mesa, bajada, wash)	
Land Form (e.g., mesa, bajada, wash)	
Land Form (e.g., mesa, bajada, wash)  * Slope: high low   Aspect 5 fuclus	
Soils Gandy w/ nocks	Elevation 2019 ft
Soils Gandy w/ nocks	
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect 5 facing Soils Gandy w/ rocks Vegetation: dominant perennials Lawre fridants, / Aul r	Elevation 2019 ft
Soils Gandy w/ nocks	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect 5 facing Soils Gandy w/ rocks  Vegetation: dominant perennials Lawre fridants, / Ambro  dominant annuals Galagrays, Charactis	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect 5 facing Soils Gandy w/ rocks  Vegetation: dominant perennials Lawre fridants, / huler  dominant annuals Gaismus, Charachis  Adjacent Land Use: up to 1 mi roads / mine (3)	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect 5 facing Soils Gandy w/ rocks  Vegetation: dominant perennials Lawre fridants, / huly  dominant annuals Ganguay, Charactis  Adjacent Land Use: up to 1 mi roads / miac (3)  Soils gane	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect 5 facing Soils Gandy w/ rocks  Vegetation: dominant perennials Lawre fridants, / huler  dominant annuals Gaismus, Charachis  Adjacent Land Use: up to 1 mi roads / mine (3)	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect Stacing  Soils Gandy in vecks  Vegetation: dominant perennials Laurea folianata, / Ambo  dominant annuals Galaguas, Chachachis  Adjacent Land Use: up to 1 mi reads   miac (3)  Soils gane  Vegetation Same	Elevation 2019 ft
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect S facing  Soils Gandy in vocks  Vegetation: dominant perennials Laurea folianata, / hullow  dominant annuals Ganguay, Chacuachis  Adjacent Land Use: up to 1 mi   pads   miac (3)  Soils gane  Vegetation Same  TOTAL NUMBER OF	Elevation <u>2019</u> ft
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy works  Vegetation: dominant perennials Lawred folian factor, Amby  dominant annuals Gangues, Charachis  Adjacent Land Use: up to 1 mi reads, min (3)  Soils gant  Vegetation Gant  TOTAL NUMBER OF  Corrected Live Shelter Sites Sca	Elevation 2019 ft  2056 a dumpso
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy w vocks  Vegetation: dominant perennials Lawre fridants, / Auly  dominant annuals Gangues, Charactis  Adjacent Land Use: up to 1 mi read; min (3)  Soils gane  Vegetation Gane  Total Number of  Corrected Live Shelter Sites Sca  Sign Tortoises Pallet/Burrow/Den	Elevation <u>2019</u> ft
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy works  Vegetation: dominant perennials Lawred folian factor, Amby  dominant annuals Gangues, Charachis  Adjacent Land Use: up to 1 mi reads, min (3)  Soils gant  Vegetation Gant  TOTAL NUMBER OF  Corrected Live Shelter Sites Sca	Elevation 2019 ft  2056 a dumpso
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy w vocks  Vegetation: dominant perennials Lawre fridants, / Auly  dominant annuals Gangues, Charactis  Adjacent Land Use: up to 1 mi read; min (3)  Soils gane  Vegetation Gane  Total Number of  Corrected Live Shelter Sites Sca  Sign Tortoises Pallet/Burrow/Den	Elevation 2019 ft  2056 a dumpso
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy w vocks  Vegetation: dominant perennials Lawre fridants, / Auly  dominant annuals Gangues, Charactis  Adjacent Land Use: up to 1 mi read; min (3)  Soils gane  Vegetation Gane  Total Number of  Corrected Live Shelter Sites Sca  Sign Tortoises Pallet/Burrow/Den	Elevation 2019 ft  2056 a dumpso
Land Form (e.g., mesa, bajada, mash)  8 Slope: high low Aspect S facing  Soils Gandy in rocks  Vegetation: dominant perennials Lawre fridants, / hulv  dominant annuals Gangues, Chacuachis  Adjacent Land Use: up to 1 mi reads mine (3)  Soils gane  Vegetation fame  TOTAL NUMBER OF  Corrected Live Shelter Sites Sca  Sign Tortoises Pallet/Burrow/Den  Adult/Juv. Active/Inactive 1	Elevation 2019 ft  2052 dumpso
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stating  Soils Gandy works  dominant perennials Lawre fridants, / Amly  dominant annuals Gangary, Charachis  Adjacent Land Use: up to 1 mi read; mia; (3)  Soils gane  Vegetation Game  TOTAL NUMBER OF  Corrected Live Shelter Sites Sca  Sign Tortoises Pallet/Burrow/Den  Adult/Juv. Active/Inactive	Elevation 2019 ft  2056 a duapses  ats <sup>2</sup> Shell Remains <sup>3</sup>
Land Form (e.g., mesa, bajada, mash)  % Slope: high low Aspect 5 fucing Soils Gandy w nock;  Vegetation: dominant perennials while file after a function of the following and	Elevation 2019 ft  2051a (aun)for  ats <sup>2</sup> Shell Remains <sup>3</sup>   A=   J= Unk= F= Unk=
Land Form (e.g., mesa, bajada, mash)  % Slope: high low Aspect 5 fucing Soils Gandy w nocks  Vegetation: dominant perennials while fine of the following the	Elevation 2019 ft  2052 (augso)  ats 2 Shell Remains 3    A=  J= Unk= F= Unk= Neotoma Middens
Land Form (e.g., mesa, bajada, mash)  % Slope: high low Aspect 5 fucing Soils Gandy w nocks  Vegetation: dominant perennials while fine of the following the	Elevation 2019 ft  2051a (aun)for  ats <sup>2</sup> Shell Remains <sup>3</sup>   A=   J= Unk= F= Unk=
Land Form (e.g., mesa, bajada, mash)  % Slope: high low Aspect 5 fucing Soils Gandy w nocks  Vegetation: dominant perennials while fine of the following the	Elevation 2019 ft  205/a (aug) for  ats <sup>2</sup> Shell Remains <sup>3</sup>   A=   J= Unk= F= Unk=    Neotoma Middens   w/o sign
Land Form (e.g., mesa, bajada, mash)  % Slope: high low Aspect 5 fucing Soils Gandy w nocks  Vegetation: dominant perennials while fine of the following the	Elevation 2019 ft  2052 (augso)  ats 2 Shell Remains 3    A=  J= Unk= F= Unk= Neotoma Middens
Land Form (e.g., mesa, bajada, wash)  * Slope: high low   Aspect Stacing  Soils Gandy w   Nocks  Vegetation: dominant perennials Lands   Ambet    dominant annuals Gands   Chachachis  Adjacent Land Use: up to 1 mi   May (3)  Soils Vegetation	Elevation 2019 ft  2052 dumpso  ats 2 Shell Remains 3  A=   J= Unk= F= Unk= Wootoma Middens Wign : w/o sign  : whe
Land Form (e.g., mesa, bajada, mash)  * Slope: high	Elevation 2019 ft  205/a (aug) for  ats <sup>2</sup> Shell Remains <sup>3</sup> A=   J= Unk= F= Unk=  Neotoma Middens w/sign :w/o sign  :
Land Form (e.g., mesa, bajada, mash)  * Slope: high low Aspect Stacius  Soils Gandy works  dominant perennials wave force of a make dominant annuals galagas, (hackachis  Adjacent Land Use: up to 1 mi pand) mag (3)  Soils make  Vegetation fame  TOTAL NUMBER OF  Corrected Live Shelter Sites Sca Sign Tortoises Pallet/Burrow/Den Adult/Juv. Active/Inactive    A= J=	Elevation 2019 ft  2052 dumpso  ats 2 Shell Remains 3  A=   J= Unk= F= Unk= Wootoma Middens Wign : w/o sign  : whe
Land Form (e.g., mesa, bajada, mash)  * Slope: high	Elevation 2019 ft  205/a (aug) for  ats <sup>2</sup> Shell Remains <sup>3</sup> A=   J= Unk= F= Unk=  Neotoma Middens w/sign :w/o sign  :
Land Form (e.g., mesa, bajada, wash)  * Slope: high low Aspect 5 facius  Soils Gandy in packs  Vegetation: dominant perennials water facius for the pack of the pa	Elevation 2019 ft  2052 daugso  ats 2 Shell Remains 3  A=   J= Unk= F= Unk=  Neotoma Middens W/sign : w/o sign  :
Land Form (e.g., mesa, bajada, wash)  * Slope: high low Aspect 5 facius  Soils Gandy in packs  Vegetation: dominant perennials water facius for the pack of the pa	Elevation 2019 ft  2052 daugsco  ats 2 Shell Remains 3  A=   J= Unk= F= Unk=  Neotoma Middens W/sign :w/o sign  :

noting hound larks ~ 4 pairs

January 1992	M/D/¥ /
·	Date <u>u/15/08</u>
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State
	County Som Burnay Cop City Som of OW
This form should be completed for those	Recorder Glankinodola
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	Site Name TRSec
be completed. Please fill in all sections on	남 Sec 남남 Sec
the top 2/3 of the page of the summary form.	UTM Zone
1.853	Northing
	Easting
	Easting
	INT STOVAR AVILA
DESERT TORTOISE HANDBOOK 1992:	Christing State Radia
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE S	JRV515 / 1.9
Project Site   Zone of Influence  ft from Pro	oject Site
Transect Length: 1960 ft Width: 60 ft Other ft	Time 12:11
Weather: Airtemp at: 5 cm Hib of Surface 820 of Cloud cover	10 8
Rainfall o in Wind speed 10-25 Rainfall in last 30	daysin
Land Form (e.g., mesa, bajada, wash)	
* Slope: high low & Aspect G-facing Eleva	ition 1053 ft
SOIIS GAURY W/ VOUL P	<u> </u>
Vegetation: dominant perennials Lawes Friductata	
dominant annuals Canissonia, Gelisones	
dominant annuals Caussenia 1 9 shistans	
Adjacent Land Use: up to 1 mi	
SoilsVegetation	
vedergriou	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Scats 2 S	hell
	mains 3
Adult/Juv. Active/Inactive 1	and I ii 3
A= J=             A=	J= Unk=
· · · · · · · · · · · · · · · · · · ·	Unk=
H- 1-	onk-
Tracks Eggshell Drinking Courtship Other Neoto	ma Middens
	·
Fragments Sites Rings w/sig	n :w/o sign
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES	======================================
	SEEN  g Ravens Other
Tire Human Dog Trash Dump Shotgun/ Bladin	

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* 1001			
January 1992		M/D/X	
(place a 4 X 6 photograph showing the		Transect No.	
area where the transect was conducted)		State CA	<del></del>
,		County SAN HA	MAAO
		City Diktor	700
This form should be completed for those	4 - 5 - 6	Recorder De	1100 T.
transects that contain one or more desert	3	Address	Macin
tortoise sign. After the project site and	,	Project Name	
Zone of Influence have been surveyed for	male +	Type of Project	Salar
tortoise sign, the results from the transect	note:		2000
forms should be compiled on a summary form.	no pus for	Quad Name	
	burrous	Scale	
If no tortoise sign occurs on the project site	VVII 00-2	Site Name	
or Zone of Influence, the summary form should	Shell remalls-	T R	Sec
be completed. Please fill in all sections on		ት Sec ትት :	Sec V
the top 2/3 of the page of the summary form.	pics. Need	UTM Zone	
	to Hed.	Northing	<del></del>
		Easting 102 0	V 05 01
		Parcel No. 1193,9	7,73,96
DESERT TORTOISE B	HANDBOOK 1992:	W/Pers	Wood, Benez Tu
FORM FOR PRESENCE-OR-ABSENCE	•	RVEYS	
$\kappa$	ft from Proj		Tim
1, 1	<del></del>	Time 11.57	
Weather: Airtemp at: 5 cm °C Surface		<del>- 1 (</del>	
	ainfall in last 30	days in	
Land Form (e.g., mesa, bajada, wash)			
% Slope: high low Aspect	t Elevat	ionft	_
Soils			-
Vegetation: dominant perennials	CVM de HVC	7 C	- Male Remain
creasof, Anoy, casia	armuta, HYS	# sphedya	Dr. MCL. Moning
dominant annuals Captantha Spp.	pectocanya Sp	p. Schiggins	- 40P91
Adjacent Land Use: up to 1 mi			- 0548805
soils sand laam			- 3857133
Vegetation Vegetation			SUB ABUIT
		=======================================	:= :=
TOTAL NUMBER	OF L. Fred Scat	7 I.WP 87	t Mate Remo
Corrected ( Live Shelter Sites	Scats <sup>2</sup> She	=11 054-893	t Male Rema
Sign Tortoises Pallet/Burrow/Den	1 Thisyr Rem	ains 3 38568	PC MOT. 532.3
Adult/Juv. Active/Inactive	1	> 2. Male	adult 51201
D = 1 Noble =   1. Active 2 Enace		<u> </u>	< lyr Total
I se hit half o	A-	J= Unk=	
2. LIVE 1. Active Ascat track	- M= F= U:	nk= 6 Ache 1	Active burrow WP88
2 stat outside	2 PLOTIVEISS, MOTH		0548911E 1 Sat 3952298N inside
Tracks Eggshell Drinking Courtship Fragments Sites Rings		<u>a</u> Middens	3857298N inside
Fragments Sites Rings	w/sign	:w/o sign	2. Active burnows
			WP 89
	:====================================	45==###################################	0548926
SIGNS OF HUMAN DISTURBANCE -	NUMBER AND TYPES SI	EEN	8857802
		Ravens Other	
Tracks Footprints Sign Sites Rifl	e Shells		
			LIVE
			1 WP90
			0548898
4 Active burnows & Active Burnows	6. Actil Buran	2 mal	3857156
3 sout tracks inside tracks inside	scat inside	7 Mbuck	adult size 2
WP 693	W 694		Male?
6548741	054×768		MU C.
3857027	0548708		
Andrea			

· ·	
January 1992	M/D/K
•	Date 4/16/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County Salv Perulture
	City
This form should be completed for those	Recorder
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	र्भ Sec र्भ Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No. 1-125, 126, 127, 128  W Persy Wood, Hense In  ARANCE SURVEYS
	\$ 11/ D. 12-5 11 5
DESERT TORTOISE HANDBOOK 19	992: "/ 16989 Wood Henselu
FORM FOR PRESENCE OR-ABSENCE AND CLEA	ARANCE SURVEYS Tim
Project Site X Zone of Influence   ft	from Project Site
Transect Length: 1900 ft Width: 40 ft Other	ft Time <u>A. (10 AM</u>
Weather: Airtemp at: 5 cm °C Surface °C Clo	ud cover%
Rainfall of in Wind speed $\sqrt{30}$ Rainfall in	last 30 daysin
Land Form (e.g., mesa, bajada, wash)	
% Slope: high low Aspect Soils	Elevationft
Vegetation: dominant perennials	<del></del>
	1.150
dominant annuals ('cy otan Una Suo Pace	YST Exhedy spp.
gesert dandation	ocarya spp. schismus
Adjacent Land Use: up to 1 mi	
soils sandy low	
Vegetation V	
TOTAL NUMBER OF	Carceiss
· <del> </del>	ats 2 Shell 1, bone from ments > 4,00
Sign Tortoises Pallet/Burrow/Den	Remains 3 WP084: 0549623 EV
Adult/Juv. Active/Inactive 1	(Denise) 385 6055N
A= J=   T =	A= J= Unk=   Active burrow
	F= Unk= 1. With 4 scat WP 85
Scat > 1111 M-	1- Unk= C549639 F

	Adult/Ju	v. Ac	tive/Ina	ctive 1	1.		use) 3856055
	A= J=	I I a	W	Stat - 1111 M=	A= 	J= Unk=   nk=	1. With 9 scat W 0549639 E 3856094 N
Tracks	Eggshell Fragments	Drinking Sites	Court: Rings	-	<u>Neotoma</u> w/sign	Middens :w/o si	gn 2. iy 1 scat
#=======			1		:		WP 086 6549561
Tire Tracks	and the second s	Dog Trasi		ANCE - NUMBER / Shotgun/ Rifle Shells	Blading		== 3856072 er
			1	1			<del></del> :

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

M/Q/Y
Date 4/18/08
Transect No.
State <u>CA</u>
County San Beradias
City
Recorder Knohol Avils
Address
Project Name Solar 4
Type of Project Salar
Desert Tortoise survey
Quad Name/
Scale
Site Name Solev 1
TRSec
남 Sec 남남 Sec
UTM Zone
Northing
Easting
Parcel No. 1-25 26,27 28

		FOF	M FOR PRE	SENCE-OR-	-ABSE	NCE AND CI	LEARANCE :	SURVE	(S	
Pro	ject Site	.	Zone of I	nfluence		f	t from Pr	oiect	Site	
Transect	Length:	900	ft Wid	lth: <del>30 E</del>	יטב'ד	rOther	ft	Tim	e (1.5	5 0
Weather:										
						Rainfall				in
Land Form	(e.a. n	esa.	oaiada. wa	sh)	<u></u> -			o daj	<u> </u>	_*
			low			ct	Elev	ation		ft
Soils					p			acro		
Vegetation	n: domina	nt pe	ennials	AMOIL	1 A	TR . C	PP - Atri	nlav	100	·
			5ρρ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.17	1 1 11	PICX	Lepi	<u> </u>
				<u> </u>		1 Crypt	TAID LO			
			<u></u>	W NV C I	· NO 5	1 - A JA	or A I A A V W			
Adjacent 1	Land Use:	up to	l mi (L	cilira A E	. 4		<u>-</u>			
Soils				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 C. C. C. C.	<del>/</del>				· · · · · · · · · · · · · · · · · · ·
Vegetat	ion									
******		=====						=====		
•			TOTAL	NUMB	 FB	OF.				
Correcte	ed Li	ve		Shelter			Scats 2	Shell		
Sign	the state of the s		Pal					emains	. 3	
			Ac		-	-	K	ema rii:	•	
		<b></b>	AC	crve/ina	ccive					
		T-	1				∦ A=			
	A-	Ų —	11			∥ M=	11		Un.	κ=
•	•					m=	F=	Unk-		
Tracks	Faceb	<u> </u>	Drinking	Court		Othor	No		44	<del></del>
ILACKS			Sites		_	Other	Neote			
	rragme	ncs	Sites	Ring	S		W/510	gn	:w/	o sign
li I			11	n						
						Ш	:			
		=			====				=====	====
m:						NUMBER A				_
Tire			-	h Dump		Shotgun/		ng Ra	vens	Other
Tracks	Footprin	cs - Si	gn	Sites	Ri	fle Shells	•			
			1							
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January 1992	2
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(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

6127

M/D/Y
Date 4/16/08
Transect No.
State CA
County Some Berneretino
City Lucia
Recorder Clankingshita
Address
Project Name Solar 6
Type of Project 101. solar
pour ate
Quad Name
Scale
Site Name
TRSec
북 Sec 북북 Sec
UTM Zone
Northing
Easting
Parcel No. 4-533,534,535,53
/1 / /

DESERT TORTOISE HANDBOOK 1992:

		DESERT TORIC	JIJE HANDBOOK	4976.	
	FORM FOR	PRESENCE-OR-	ABSENCE AND CL	EARANCE SURVE	YS
Project Site	Zone c	f Influence	ft	from Project	Site
Transect Length: /	900 ft :	Width: #0 ft	) Other	ft Tim	12:45 NM
Weather: Airtemp a	it: 5 cm 94	) of E Surfa	ce 99.2 °g; CI	Loud cover 10	*
Rainfall_	$\mathcal O$ in Wi	nd speed 11-14	wyh Rainfall i	in last 30 day	s —— in
Rainfall_ Land Form (e.g., me % Slope: high	sa, bajada,	wash) /6	26	_	<del></del>
% Slope: high	i lc	w x	Aspect & facing	Elevation	-510 ft
SOLIS SCHAY (BON)	w/ Vock)	4			
Vegetation: dominar	t perennial	s Laures told	entata, Autupria	aumosa	
<u></u>					
dominan	t annuals	Amginkin, 1	lantago , sch	ismus	
ifo			7 - 1 - 1		
Adjacent Land Use:	up to 1 mi_	Vadio towar	, tuang 4 195101	a lines, und	everyand Vikel
Soils Came			1	·	7 7 7
Vegetation fame					
	========				===========
	TO	TAL NUMBE			
Corrected Liv	e	Shelter	Sites S	cats 2 Shell	ŧ
Sign Torto	ises	Pallet/Burro	w/Den	Remain	s 3
Adult		Active/Inac			
·					
A=	J=	F & ALL	THAHAH II	A= ()( J=	Unk=
" •	į u		Appropriate Mail	ր չոր h F= Unk=	
	•	* · · · · · · · · · · · · · · · · · · ·	HH-HH-HH M=	ų	
Tracks Eggshe	11 Drinki	na, Courts	hip Other	Neotoma M	iddens
Fragmen	ts Sites	Rings	բ	w/sign	
· · · · · · · · · · · · · · · · · · ·					
		1 .		•	
# :============		; ====================================	↓ ====================================		
i y	SIGNS OF HU	MAN DISTURBA	NCE - NUMBER A	אח דעספע פפפא	·*
Tire Human		rash Dump			avens Other
Tracks Footprint					avena Ornet
- rootprint	= - 3.19.ii	orces	ville Suells		
	1 1		<b></b>	# #	
1 M		[	ll .		¥.

TORT - GENTY 3847001 ~ 17" MCV 0131 In Lawow
TORT - GENTY 3847110 (a howed 0136

January 199	)2		W/D/W
04	-	•	M/D/Y Date 4/12/08
(place a 4	X 6 photograph	showing the	Transect No.
	the transect		State CA
	, 200		
			County San termanding
This form s	should be compl	eted for those	Recorder Glack Inoght
	<del>=</del>	e or more desert	Address
		project site and	Project Name Solumb
	=	en surveyed for	Type of Project let sder
		s from the transect	
	-	on a summary form.	Quad Name
		on a bananari rozm.	Scale
If no torto	ise sign occur	s on the project site	Site Name
		summary form should	T R Sec
		l in all sections on	4 Sec 44 Sec
		f the summary form.	UTM Zone
-		0108	Northing
		UIUV	Easting
		•	Parcel No. 6-549,590,99,55
			- 4- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
		DESERT TORTOISE HANDBOOK 19	992:
		FOR PRESENCE-OR-ABSENCE AND CLEA	
Projec	ct Site 🖟 Z	one of Influence  ft	from Project Site
Transect Let	ngth: <u>[900</u> ft	Width: 30 fb Other	ft Time 11:04
Weather: A	irtemp at: 5	cm 713 °FF Surface 75,1 °EE Clo	ud cover 0 %
Ra	ainfall <u>(</u> in	Wind speed 1-344 Rainfall in	last 30 daysin
Land Form (e	e.g., mesa, ba	jada, wash)	
	pe: high	low Aspect 5- facing	Elevation 1520 ft
Soils Gand			
Vegetation:	dominant pere	inials Larvey trigentata	
	dominant annua	als Amaluhia, Schring	
Adjacent Lan	nd Use: up to :	mi Transmission line, 4nder	ground liveline matio lower
	jane		
Vegetation	n sanc		
******	<b>:===</b> ========		
	<del></del>	TOTAL NUMBER OF	2
Corrected	Live		ats <sup>2</sup> Shell
Sign	Tortoises	Pallet/Burrow/Den	Remains
	Adult/Juv.	Active/Inactive 1	
		Alle and the man	11 _
ı	A= J=	ii rith the ii	A= J= Unk=
		-r M=	F= Unk=

Eggshell Tracks Drinking Courtship Other Neotoma Middens Fragments Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

January 1992	м/р/х
	Date <u>u/17/08</u>
(place a 4 X 6 photograph showing the	Transect No
area where the transect was conducted)	State <u>CA</u>
	County San Bernanding
	City Ludlow
This form should be completed for those	Recorder Clan Kineshit
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Solarb
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	TRSec
be completed. Please fill in all sections on	ት Sec ትት Sec
the top 2/3 of the page of the summary form.	UTM Zone
<b>A</b>	Northing
0 /00	Easting
DESERT TORTOLSE HANDROOK 1993.	Parcel No. 6-573, 574, 575, 57
DESERT TORTOISE HANDBOOK 1992:	w/ Til Sect Benise Tu
FORM FOR PRESENCE OR ABSENCE AND CLEARANCE	•
Project Site X Zone of Influence   ft from Pr	oiect Site
Project Site Zone of Influence ft from Project Length: 14% ft Width: 0 ft Other ft	Time III A A.
Weather: Airtemp at: 5 cm /4 % % & Surface 7% % & Cloud cove	or 2 &
Weather: Airtemp at: 5 cm 19.8 ° F Surface 79.8 ° F Cloud cover Rainfall O in Wind speed 10-15 Rainfall in last 3	30 days — in
Land Form (e.g., mesa, bajada, wash)	
% Slope: high low X Aspect Elev	ration 2770 ft
Soils Gauly loan w/vocks	
Vegetation: dominant perennials Larven to identify	*
dominant annuals Amalukia, Evolum	
Adjacent Land Use: up to 1 mi unferground preline, transmis	ssing line
Soils Gase	
Vegetation 944	
=======================================	
TOTAL NUMBER OF	
	Shell
	emains <sup>3</sup>
Adult/Juv. Active/Inactive 1	
H H	
A= J=	J= Unk=
##### F=	Unk=

Eggshell Drinking Tracks Courtship Other Neotoma Middens Fragments Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Trash Dog Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

· · ·	
January 1992	W/D/X
	Date 4/1908
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County San Bernarding
	city Lydlow
This form should be completed for those	Recorder Gles Kingshife
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name
Zone of Influence have been surveyed for	Type of Project Solar 6
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	TRSec
be completed. Please fill in all sections on	ት Sec ትት Sec
the top 2/3 of the page of the summary form.	UTM Zone
0101,0102	Northing
V 1 · · · · · · · · · · · · · · · · · ·	Easting
Y	Parcel No. 17569,570,571
DECEME MORMATAN UNNUBBOOK 1000.	Parcel No. 6-569,570,571,572 w/Till Seed Henise Ta
· · · · · · · · · · · · · · · · · · ·	•
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SUR	
Project Site Zone of Influence ft from Project	ect Site
	Time 907 am
Weather: Airtemp at: 5 cm 42.1° F Surface 13.3 ° F Cloud cover	
Rainfall o in Wind speed 5-8mgh Rainfall in last 30 o	
* Slope: high low \ Aspect \( \frac{6-fan}{6-fan} \) Elevation	on 2481 ft
Soils such lagu w/ vode 5	- C - C - C - C - C - C - C - C - C - C
Vegetation: dominant perennials Livren heidrulde	
- Tratagaio	
dominant annuals Husland & Evissanum, huslubin	
Adjacent Land Use: up to 1 mi fron swiff low line, Muder of the und	rivel in t
Soils 9gml	
VegetationSame	
**************************************	<b>****</b>
TOTAL NUMBER OF	MCL: Lyona
Corrected Live Shelter Sites Scats 2 She	
Sign Tortoises Pallet/Burrow/Den Rema	ins
Adult/Juv. Active/Inactive 1	•
A= J=	J= Unk=
the with the man the m	k=
4117 Heriti 1	
Tracks Eggshell Drinking Courtship Other <u>Neotoma</u>	Middens

Tracks Eggshell Drinking Courtship Other Neotoma Middens
Fragments Sites Rings w/sign :w/o sign

:

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other

Tracks Footprints Sign Sites Rifle Shells

10

January 1992	
	Date 4/17/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State LA
	County San herenary and
This form should be completed for those	City Ludlow
transects that contain one or more desert	Recorder Glun Kingdita
tortoise sign. After the project site and	Address
Zone of Influence have been surveyed for	Project Name Solar 6
tortoise sign, the results from the transect	Type of Project Pet. Sday
forms should be compiled on a summary form.	your ste
Torms should be comprised on a summary form.	Quad Name
If no tortoise sign occurs on the project site	Scale
or Zone of Influence, the summary form should	Site Name
be completed. Please fill in all sections on	TR_Sec
the top 2/3 of the page of the summary form.	남 Sec 남남 Sec
	UTM Zone
0104	Northing Easting
	Parcel No. 6-969,566,567,568
DESERT TORTOISE HANDBOOK 1992:	* only 2 passes west + sa
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE	SURVEYS Sides along have street
	roject Site
Transect Length: /180 ft Width: 20 ft Other ft	
Weather: Airtemp at: 5 cm 70.9 % Surface 7h Cloud cover	11me <u>D7,00</u>
Painfall O in Wind ground W & Painfall in land	er
Rainfall O in Wind speed - y wyn Rainfall in last	30 daysin
Land Form (e.g., mesa, bajada, wash) gar of we un friend Slope: high X low Aspect 9-facing Election	<u> </u>
	vation_07_ft
Vegetation: dominant perennials Lawren to identify	<del></del>
Vegetation. dominant perennials Varion Widentrops	
dominant annuals Audinking , Plantago, gchismus	
HULTING / PROGEST & LUTTING	
Adjacent Land Use: up to 1 mi . www.gr.Bust pincline , fransmiss	ion the
soils sandy lound rocks	
Vegetation Gara	The second secon
TOTAL NUMBER OF	
3	Shell
	Remains 3
Adult/Juv. Active/Inactive 1	(enality
Addic/Jdv. Active/inactive	
A= J=          A=	T 1
The state of the s	
M= F=	Unk=
Tracks Eggshell Drinking Courtship Other Neot	
	oma Middens
Fragments Sites Rings w/si	.gn :w/o sign
, u	
	II.
STONE OF HIMAN DISTURBANCE WINDER AND GUDE	//
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES	· · · · · · · · · · · · · · · · · · ·
Tire Human Dog Trash Dump Shotgun/ Bladi	SEEN Other
	· · · · · · · · · · · · · · · · · · ·

w/ Denise tn, Rachel Avila

No.	
January 1992	м/р/ү
•	Date VIFOF
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County San Bernachino
	City Ludlow
This form should be completed for those	Recorder Glas Kingday
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Solar L
Zone of Influence have been surveyed for	Type of Project Soler
tortoise sign, the results from the transect	your she
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	4 Sec 44 Sec
the top 2/3 of the page of the summary form.	UTM Zone
1099	Northing
VV IN	Easting
	Parcel No. 6557, 558, 559 500
	Parcel No. 655t, 558,559.50
DESERT TORTOISE HANDBOOK 19	72:
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	
Project Site   Zone of Influence  ft f	from Project Site
Transect Length: 1900 ft Width: 30 ft Other	
Weather: Airtemp at: 5 cm 122 % Surface 77.7 % Clou	id cover{
Rainfall O in Wind speed 5-8 my Rainfall in	last 30 days in
Land Form (e.g., mesa, bajada, wash)/	
* Slope: high low X Aspect 9 facing	Elevation ft
Soils gandy lane of vacks	<u> </u>
Vegetation: dominant perennials Hillowin , Laurentviduelata	
4-1	
dominant annuals Annualing , Schiffing , Eviogonum	<u> </u>
Adjacent Land Use: up to 1 mi u [ [ ] ]	
Soils Came	mistion line
vegetation have	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Sca	ts <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	a construction of the con-
	11 .

Courtship

Other

Tracks

Eggshell

Drinking

t

F= Unk=

Neotoma Middens

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1. 克·林

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January 1	9	9	2
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(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

12113

м/р/ү,	
Date 4/17/08	
Transect No.	
State	
County Gan Bernarhino	
City Indlow	•
Recorder Gentinoshita	
Address	
Project Name Golar 6	
Type of Project Pot solar	
yourser site	
Quad Name	
Scale	
Site Name	
TRSec	
ት Sec ትት Sec	
UTM Zone	
Northing	
Easting	
Parcel No. 6-553 557 559	, 5
ul Denise Tu, Radiel Avila	

			Ω	ESERT TOP	TOISE HA	NDBOOK 19	992:	17000	/ / / / / / / / / / / / / / / / / /
	-						ARANCE SUR		
Pro	oject Sit	:e  X	Zone of	Influence	3	ft	from Proje	ct Site	
Transect	Length:	1400	ft : W:	idth: 20	ة 'حيع	ther	from Proje	ime /4/6	O
Weather:	Airtemp	at:	5 cm 88.)	°F Sur	face 94,9	°EE Clo	ud cover		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Rainfal	1 O	in Wind	d speed ln.	Manh Rai	nfall in	last 30 d	lavs —	-in
Land Form	(e.a.,	mesa.	bajada. s	vash)	y			• -	<del></del>
% S	Slope: hi	.gh	low	Χ	Aspect_0	Seferine	Elevati	on 145	6 ft
SOLIS	Sandy los	in U	Voces						
Vegetatio	n: domin	ant pe	rennials	Laureal	videntate				
•	domin	ant an	nuals /	mainks "	ichigaus				
	-								
Adjacent	Land Use	: up to	o 1 mi	radio towe	. under	wound "	pc/inc , to	Van 5 13 (9)	Ten lives
Soils_	79ac					7-21-5-1	·/ · · · · · · · · · · · · · · · · · ·		<u> </u>
Vegetat	ion	anc							
=======		=====							:
			TOTA	L NUME	ER O	F			
Correct	ed L	ive		Shelter	Sites	Sci	ats <sup>2</sup> She:	11	
Sign	Tor	toises	Pa	llet/Burr	ow/Den		Rema	ins 3	
	Adu	lt/Juv	. <i>P</i>	ctive/Ina	ctive 1				
		<b>-</b> -		. <b></b>					
•	A=	<b>J</b> =	· ·	100 m	# # 111	H	A= [	J= Unk	ζ=
			"	- * <b>!</b>	o then a	" M=	F= t Un.		
				ug#l			•	1	
Tracks	Eggs	hell	Drinking	Court	ship O	ther	Neotoma	Middens	
	Fragm	ents	Sites	₫ ∮ Ring	s		w/sign	:w/o	sign
			1	1			:		
24222222 ./ .	=======				=======		*****		=====
		SIGNS					TYPES SE	ΣN ¹	
Tire			og Tra	sh Dump			Blading	Ravens	Other
Tracks	Footpri	nts Si	gn	Sites	Rifle	Shells			
						- <b></b>			
., [	2.	1 .	建学制 へ		1	1			

January	,	1	9	9	2
(place	a		4		X

X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

Adult/Juv.

Eggshell

Fragments

Tracks Footprints Sign

Tracks

Tire

ַ א/ס/ץ	
Date <u>4/17/08</u>	
Transect No.	
State _CA	•
Country Solo Barlo 11	
County San Bernadin	o 🐫 🐧
city Barstow	
Recorder BB	
Address	
Project Name Solar 📆 6	
Type of Project	
presence/absence	
Quad Name	
Scale	
Site Name	
TRSec	
남 Sec 남남 Sec	
UTM Zone	
Northing	
Easting	
Parcel No.	
me/A 1. (	
w/Pany wood	
SURVEYS	
Project Site	•
Time 0955	
ver_0 %	
30 days O in	
4 -	
evation 2384 ft	
	2
cholla, Beavertail	Ć.
(7.0019)	· .
inkla Chaenactus	
1880 Per CIPACIONO	
	18/R \
shell #1 WP 002	(30)
	( - 0-0-1/
Remains Z TYCSN	
UTM- 055	59539
385	52149
J= Unk=	2.3
Unk= #2 WP 09	03 (BB)
**	KUNCH
toma Middone 28	<2038
ign :w/o sign 2 fre	sh scat
	it. 1
-	
===== #3 WP6	204 (RR)

2 fresh MV.

	7
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS	
Project Site $ X $ Zone of Influence ft from Project Site	
Transect Length: 1700 ft Width: 30 ft Low, Other ft Time 0955	
Weather: Airtemp at: 5 cm °C Surface °C Cloud cover 0 %	
Rainfall o in Wind speed Rainfall in last 30 days o in	
Land Form (e.g., mesa, bajada, wash)	
* Slope: high, low Aspect Elevation 3384 ft	
soils sand warm sand arance & color	
Vegetation: dominant perennials LATR AMDU, ENFR Pencil Chong Beavertail	
tNSA (Cheese bush)	
dominant annuals rectocarya spp. Lepidium Amsinkia Chaenactus	
Phacelia spp.	
Adjacent Land Use: up to 1 mi	
soils can the toam gravet to the	
Vegetation	
	•
TOTAL NUMBER OF / /	
Corrected Live Shelter Sites / Scats 2 / Shell	ν,
Sign Tortoises Pallet/Burrow/Den / Remains 3	4

Pallet/Burrow/Den

Active/Inactive

Courtship

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Rings

Dump

Sites

Other

Shotgun/

Rifle Shells

Blading Ravens Other

1 4 (inactive

Drinking

Sites

Dog

January 1992	M/D/Y
	Date 4/17/08
(place a 4 X 6 photograph showing the	Transect No. 90-433 434, 485
area where the transect was conducted)	State CA 486
	County San Bernadino
This form should be completed for those X Eastern	City <u>SayStow</u> Recorder BB
transects that contain one or more desert	Address
tortoise sign. After the project site and $200m$	Project Name Solav 6
Zone of Influence have been surveyed for tortoise sign, the results from the transect not completed	Type of Project
tortoise sign, the results from the transect	presence/absence
forms should be compiled on a summary form4/18/04 3/4)	Quad Name
If no tortoise sign occurs on the project site	Scale
or Zone of Influence, the summary form should	Site Name
be completed. Please fill in all sections on	4 Sec 44 Sec
the top 2/3 of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No.
DESERT TORTOISE HANDBOOK 1992	
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SUI	RVEYS
Project Site   Zone of Influence  ft from Proj	ect Site
Transect Length:ft Width: 30 ft Otherft	Time <u>1430</u>
Weather: Airtemp at: 5 cm°C Surface°C Cloud cover_	
Rainfall in Wind speed Rainfall in last 30	daysin
Land Form (e.g., mesa, bajada, wash)  * Slope: high low Aspect Elevat	ion ft
soils Sand Warm	, , , , , , , , , , , , , , , , , , , ,
Vegetation: dominant perennials LAGR AMDU (Ambrosva dom	089)
dominant annuals SZH ISMMS 8PP+, Cryptantha	spp-
diagont Fand Heat up to 3 mi	
Adjacent Land Use: up to 1 mi	
Vegetation	
TOTAL NUMBER OF	
Corrected Live Shelter Sites /Scats 2/She	
	ains <sup>3</sup>
Adult/Juv. Active/Inactive 1 / 1 1	المدمير
A= J=   conve   inactive   A=	J= Unk= inactive burrow has scat inside
	has scat instact
Tracks Eggshell Drinking Courtship Other <u>Neotom</u> s	a Middens active burrow,
Fragments Sites Rings w/sign	•••/
	WP 005(BB)
	dozent preces of
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SI	sout in/out
	Ravens Other 0559442
Tracks Footprints Sign Sites Rifle Shells	3850682

active burrow 2 WP 006 (BB) 0559496 3851022 Fresh tracks inside (place a 4 X 6 photograph showing the
 area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

M/D/X
Date 4/18/08
Transect No
State CA
County San Beradino
City
Recorder Rechal Avila
Address
Project Name Sole 3
Type of Project
Desent Toxtoise Survey
Quad Name
Scale
Site Name Salar 3
TR_Sec
रे Sec रेर Sec
UTM Zone
Northing
Easting
Parcel No. 3-57 58, 51,60

Project Site   Zone of Influence  ft from Project Site	
Transect Length: 1400 ft : Width: 30 ft 20 mt Other ft Time 13'.	17
Weather: Airtemp at: 5 cm °C Surface °C Cloud cover %	<del></del>
Rainfall in Wind speed Rainfall in last 30 days	in
Land Form (e.g., mesa, bajada, wash)	····
% Slope: high low V Aspect Elevation	ft
Soils	
Vegetation: dominant perennials Athiphy Lepiciva SSP,	
dominant annuals Chanenactor ( & Sp. Legislium SSP.	
cryptantha spp	
Adjacent Land Use: up to 1 mi Free railroad.	
Soils	
Vegetation_	
	======================================
TOTAL NUMBER OF	
Corrected Live Shelter Sites Scats 2 Shell	
Sign Tortoises Pallet/Burrow/Den Remains 3	
Adult/Juv. Active/Inactive 1	
Adult/Juv. Active/Inactive 1  A= J=	 k=
A= J= Un   M= F= Unk=	
A= J= Un  M= F= Unk=  Tracks Eggshell Drinking Courtship Other Neotoma Middens	,
A= J= Un   M= F= Unk=	,
A= J= Un  M= F= Unk=  Tracks Eggshell Drinking Courtship Other Neotoma Middens	,
A= J= Un  M= F= Unk=  Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign :w/	,
A= J= Un  M= F= Unk=  Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign :w/  :  SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN	o sign
A= J= Un  M= F= Unk=  Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign :w/	o sign

	,		
January 1992			W / D / W
4		•	M/D/Y Date U/18/08
(place a 4 X	6 photograph	showing the	Transect No.
· <del>-</del>		was conducted)	State Ch
		•	County Som her now dans
			City Ludlow
This form sho	uld be compl	eted for those	Recorder Glas Kingfilm
	=	e or more desert	Address
		project site and	Project Name Golar G
		en surveyed for	Type of Project Kef arkan
		s from the transect	
		on a summary form.	yan 5te Quad Name
			Scale
If no tortois	e sign occur	s on the project site	Site Name
or Zone of In	fluence, the	summary form should	T R Sec
be completed.	Please fil	l in all sections on	i Sec it Sec
		f the summary form.	UTM Zone
			Northing
		0 (15	Easting
			Parcel No. 1-509-510-511-51
		DECEDE MODEOTCE VANDROOK 10	Parcel No. 6:509-510,514,514 W/ Denise Th
	FORK	DESERT TORTOISE HANDBOOK 19	7.7
Project		FOR PRESENCE-OR-ABSENCE AND CLEADING OF Influence     ft i	
			from Project Site
Weather: Airt			
		cm 745° F Surface 76,8° F Clou Wind speed 5-Bugh Rainfall in	id cover*
Land Form (e.c.	mees ba	iada, wash) <u>Uningg</u>	last 30 daysin
% Slope:	hich	low X Aspect 5-fains	Elevation 1296 ft
Soils Santa		ocks	Elevation 1396 ft
Vegetation: do			V Level Level
			wir , fullwork, dampg 1
đơ	minant annua	115 Schiques, floutago	
Adiacent Land	Hear up to 1	: T. L.	
Adjacent Land		. mi vadio towa, unter ground pip	eline, transmiggion lune
Vegetation	Sant		
	<u> </u>		
		TOTAL NUMBER OF	
Corrected	Live	Shelter Sites Sca	ts <sup>2</sup> Shell
Sign	Tortoises	Pallet/Burrow/Den	Remains 3
	Adult/Juv.	Active/Inactive 1	
		A U	
A	.= J=	####### M=	A=

Courtship

Other

NIYINI NIN NIN

Eggshell

Drinking :

Tracks

Neotoma Middens

January 1992	M/D/Y
	Date 4/18/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County San Berndin
	City
This form should be completed for those	Recorder Ruchal Aus
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name Sala, 6
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Sita Name
or Zone of Influence, the summary form should	Site Name TRSec
be completed. Please fill in all sections on	ት Sec ትት Sec
the top 2/3 of the page of the summary form.	UTM Zone
and the system and page of the building of the system.	Northing
	Easting
	Parcel No. / 427 436 (126 (1.1)
	142001 1101 <u>5-737, 178, 43</u> 1, 440
DESERT TORTOISE HANDBOOK 1992:	Parcel No. 6-437, 438, 439, 440
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE	STIBLES / / ONLY WOOD
Project Site   Zone of Influence  ft from Pr	roject Site
Transect Length:ft Width: 30 ft Otherft	Time (1)
Weather: Airtemp at: 5 cm °C Surface °C Cloud cove	or A
Rainfall in Wind speed Rainfall in last 3	O days in
Land Form (e.g., mesa, bajada, wash)	
Land Form (e.g., mesa, bajada, wash)  * Slope: high low Aspect Elev	ation ft
Soils Rapect Repet	acronrc
Vegetation: dominant perennials ATK AMDU	<del></del>
regeration domained percentitues the property of	
dominant annuals Amsingial L., Schisnus	
dominate annuals the total Contents	
Adjacent Land Use: up to 1 mi	
Soils	
Vegetation	
**************************************	
TOTAL NUMBER OF Scats 2 Scats	ah 1.3
Additional Differ Differ Differ Differ	Shell
- · · · · · · · · · · · · · · · · · · ·	emains 3
Adult/Juv. Active/Inactive 1	
A= J=       A=	J= Unk=
M= $F=$	Unk=

Tracks Eggshell Drinking Courtship Other Neotoma Middens Rings Fragments Sites w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

M/D/Y
Date 4/18/08
Transect No.
State CA
County San Burding
City
Recorder Rachel Avil
Address
Project Name Sila, 6
Type of Project
Quad Name
Scale
Site Name
T R Sec
片 Sec 남 Sec
UTM Zone
Northing
Easting
Parcel No. G- 401, 402, 403, 40
, , , , , , , , , , , , , , , , , , ,

# DESERT TORTOISE HANDBOOK 1992:

	F	ong for PRE.	SENCE-OR-	WESTINCE WIND CITI	CARANCE SURVEY	5
Proje	ct Site	Zone of I	nfluence	ft	from Project	Site
Transect Le	ngth: 1990	_ft Wid	th: 30 ft	Other	ft Time	1:31
Weather: A	irtemp at:	5 cm°	C Surfa	ce°C Cl	oud cover 30	8
R.	ainfall	_in Wind	speed	Rainfall i	n last 30 days	in
Land Form (	e.g., mesa,	bajada, wa	sh)			
	pe: high			Aspect	Elevation	ft
Soils				· · · · · ·	·	
Vegetation:	dominant p	erennials <u>(</u>	ATR, #	ANOL-	AM AMO	
			MDÚ			
	dominant a	nnuals <u>C</u>	ryptiant	ha i Schisun	& , AMSI	MKIA
•	<del></del>		1. 866	501	<u> </u>	ζ ρ ρ
Adjacent Lar	nd Use: up	to 1 mi				-,
Soils	<del></del>					
Vegetation						
=======						
	_			R OF	· ,	
	Live				cats <sup>2</sup> Shell	•
Sign	Tortoise			w/Den 1	Remains	J
	Adult/Ju	r. Ac	cive/Inac	tive '	1	
	<del></del>					
l	A= J=		/	1	∦ A= J=	Unk=
			•	M=	F= Unk=	
		<del></del>	··· ·· ··			
Tracks				hip Other	\ Neotoma Mid	
	Fragments	Sites	Rings		\w/sign	:w/o sign
		11				
[ \ \	ll .	11	1	1	:	
.========		ta-				********
m:	· · · · ·			NCE - NUMBER AN		<del></del>
Tire		-	n Dump		Blading Ran	vens Other
Tracks Fo	otprints: S	ign	Sites	Rifle Shells		
	. <del></del> 1	1		<del>-</del>		
ll ·	I	l	1	1	#	
			<del></del>		3-6 % -	5 220
1 retire	burren with	1025		•	tat Cat.	1 55014
		E 0558	2-12		>NA CUI.	+ >< 4
track	C	1 1 1 1 1 1 1 1 1 1	1 / /			

N-38350101

· ·	
January 1992	M/D/Y
	Date 5/5/08
(place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County Sanberhanding
This form should be completed for those	City <u>Ludov</u>
transects that contain one or more desert	Recorder Clen Kineshila
tortoise sign. After the project site and	Address
Zone of Influence have been surveyed for	Project Name Solar 6
tortoise sign, the results from the transect	Type of Project Lol tolan
forms should be compiled on a summary form.	Quad Name
	Scale Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	4 Sec 44 Sec
the top 2/3 of the page of the summary form.	UTM Zone
0177	Northing
	Easting
	Parcel No. 6-515, 516, 517518
DESERT TORTOISE HANDBOOK 1992:	•
FORM FOR PRESENCE OR ABSENCE AND CLEARANCE	TE SUBVEVE
Project Site  X   Zone of Influence   ft from	
Transect Length: 1900 ft Width: 30 ft Other f	"
Weather: Airtemp at: 5 cm 700 og Surface 198 of Cloud c	over - %
Rainfall O in Wind speed 1-Boyl Rainfall in las	t 30 days in
Land Form (e.g., mesa, bajada wash)	*
* Slope: high low X Aspect 5 E	levation 1987 ft
Soils Santy gam in works	
Vegetation: dominant perennials Large tvidenta, Krameria	EVERYLY AMERICATES dumos 9
dominant annuals Amainkis tagglata schiques	
Adjacent Land Use: up to 1 mi twanswission line, undergraine	piyaline
Soils Gaura	
Vegetation Same	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Scats	2 Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	

1/J ## |## ###### ∦ A≃ J= Unk= Tracks Eggshell Drinking Courtship Other Neotoma Middens Rings w/sign :w/o sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Tracks Footprints Sign Trash Dump Shotgun/ Blading Ravens Other Sites Rifle Shells IN IN IN

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

0178

M/D/Y
Date 5/5/08
Transect No.
State (A
County San Bernanino
City Ludlow
Recorder Glenkinoship
Address
Project Name Solar 6
Type of Project for,
Solar boner site
Quad Name
Scale
Site Name
TR Sec
남 Sec - 남남 Sec ·
UTM Zone
Northing
Easting

	FOR			SE HANDBOOK	•	-
					EARANCE SURVEYS	
			nfluence		from Project	
Transect Lengt	h: <u>1900</u> t	t Wid	th: 30 ft	Other	ft Time	16/5 pm
Weather: Airt	emp at: 5	cm #0.8°	<b>Z</b> ⊢ Surface	<u>84.5</u> °€£ C1	oud cover	_% ′
				Rainfall i	n last 30 days	<u>in</u>
Land Form (e.g						
<pre>% Slope:</pre>		low	C As	pect 5 facing	Elevation	2457 Et
Soils 46 mky	Hash yel V	ocks		7		
Vegetation: do	minant per	ennials /	erres trident	da Ambrosia	15,4055	
	_			71-27		
do	minant ann	uals Ansin	kin ressdata i	Schignes		
Adjacent Land	lse un to	1 mi 4.4	l f .	٠. ١٠ ١٠ ١٠	win I	
soils have	oue. ap co	+ am	er dround	peine, than	INC.	<del></del>
Vegetation	<del> </del>					
**************************************						
	T	TOTAL		OF .	cats <sup>2</sup> Shell	
Corrected	· ·		Shelter Si			3
			let/Burrow/		Remains	•
, <b>i</b>	Adult/Juv.	Act	ive/Inacti	ve '		
		- <b></b>	<del></del>			
A:	= J=	A	-111.4	H+++17   M=1	A≃   J=	Unk=
			nil-m	ן=א קרלויח M=∫	F= Unk=	
				<i>v</i>		
Tracks Eq	ggshell	Drinking	Courtshi	p Other	Neotoma Mic	ldens
Fra	agments	Sites	Rings		w/sign	:w/o sign
					·	
 		1	1		:	
				=========	:	
1	SIGNS	OF HUMAN	DISTURBANC	E - NUMBER A	: ========== ND TYPES SEEN	
Tire Hun					: ND TYPES SEEN	rens Other
	nan Do	g Trash	Dump	Shotgun/	Blading Rav	rens Other
Tire Hum	nan Do	g Trash	Dump		Blading Rav	rens Other
	nan Do	g Trash	Dump	Shotgun/	Blading Rav	ens Other

	•	
January 1992		M/D/Y
	•	Date 5/4/rt
(place a 4 X 6 photograph		Transect No.
area where the transect	was conducted)	State CA
		County Som kernenting
		City Banslow / Ludlow
This form should be compl	leted for those	Recorder Glinkingshita
transects that contain or	ne or more desert	Address
tortoise sign. After the	project site and	Project Name 3dack
Zone of Influence have be	en surveyed for	Type of Project fol Solar
tortoise sign, the result	s from the transect	vares set
forms should be compiled	on a summary form.	Quad Name
		Scale
If no tortoise sign occur		Site Name
or Zone of Influence, the		TRSec
be completed. Please fil		4 Sec 44 Sec
the top 2/3 of the page o	f the summary form.	UTM Zone
		Northing
	·	Easting
,		Parcel No. 6 405, 406 403,400
	PROTEIN MORMOTOR VINEROUV I	ago. W/ Jeff Johnson , Denise Ty
FORK	DESERT TORTOISE HANDBOOK 1	, , , , , , , , , , , , , , , , , , , ,
Project Site $ X $ z	FOR PRESENCE-OR-ABSENCE AND CLE	
Transect Length: 1980 ft		from Project Site ft Time 2:00 vm
	cm 14.5 ° EF Surface 1010 ° FF Clo	
Weather. Aircemp at: 3	Wind speed 7-10mh Rainfall in	last 30 days 75 in
Land Form (e.g., mesa, ga	iada washi	Tase 30 daysIII
% Slope: high	low X Aspect	Elevation >157) ft
Soils Santy loam W/ voil	L TOWA Hapeet	Hievacion XIVD
Vegetation: dominant pere	nnials / arma tribentale 1. 1.	is beans & Hillaria nicola
	- 1 AM 1109	a men property
dominant annu	als Amarakia Malacothux 4 . G	Chiamns
Adjacent Land Use: up to	1 mi drausmission lives under	regind riveling house
Soils Same		
Vegetation 5 max		
************		######################################
	TOTAL NUMBER OF	2
Corrected Live	Shelter Sites Sc	ats 2 Shell
Sign Tortoises	Pallet/Burrow/Den	Remains 3

Tracks Eggshell Drinking Courtship Other Neotoma Middens Fragments Sites Rings w/sign SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other Tracks Footprints Sign Sites Rifle Shells 1 N

Active/Inactive 1

F= Unk=

Adult/Juv.

A=

January	1	9	9	2
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(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

0317

м/р/ч
Date 6/08
Transect No.
StateCA
County San Belnarding
City Bouston / Lydlaw
Recorder Gkn Kingship
Address
Project Name galary
Type of Project No. 50hr
your sir
Quad Name
Scale
Site Name
TRSec
4 Sec 44 Sec
UTM Zone
Northing
Easting

FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SURVEYS
Project Site X Zone of Influence ft from Project Site
Fransect Length: ft : Width: 30 ft Other ft Time 11:45
Weather: Airtemp at: 5 cm 92 ° 8 F Surface 96.3 ° 6 F Cloud cover 7) 8
Rainfall o in Wind speed that Rainfall in last 30 days in
Land Form (e.g., mesa, bajada, wash)
% Slope: high low X Aspect Elevation 2205 ft
soils sandy loam w/voc/c3
regetation: dominant perennials James tracertate, Hilaria Night
dominant annuals Dengthing deltoiles, Malor cothryx Cryptantha, Schimus
Adjacent Land Use: up to 1 mi house , trangmigsion /inec
Soils 19ME Vegetation 9AMI/
vegetation gap-1
_ TOTAL NUMBER OF
Corrected Live Shelter Sites Scats 2 Shell
Sign Tortoises Pallet/Burrow/Den Remains 3
Adult/Juv. Active/Inactive 1
'uarra' arra ucerae' indecrae
A= J=          A= J= Unk=
A= J=          A= J= Unk= 
······································
Tracks Eggshell Drinking Courtship Other <u>Neotoma</u> Middens
Fragments Sites Rings w/sign :w/o sign
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN
Tire Human Dog Trash Dump Shotgun/ Blading Ravens Other
Tracks Footprints Sign Sites Rifle Shells
Y ! Y ! Y ! Y ! N ! N ! X !
Approx 40% of gite is disturbed by nestelesses - loss of fright
101 01 19951

(place a 4 X 6 photograph showing the area where the transect was conducted)

This form should be completed for those transects that contain one or more desert tortoise sign. After the project site and Zone of Influence have been surveyed for tortoise sign, the results from the transect forms should be compiled on a summary form.

If no tortoise sign occurs on the project site or Zone of Influence, the summary form should be completed. Please fill in all sections on the top 2/3 of the page of the summary form.

0315

м/,р/,ү
Date <u>5/6/28</u>
Transect No.
State CA
County San Bernarding
City Parstow
Recorder Gles Kingdish
Address
Project Name Solav b
Type of Project Pel Gow
nouver site
Quad Name
Scale
Site Name
TRSec
片 Sec
보 Sec 설치 Sec
<del></del>
UTM Zone

			:	DESERT TORI	COISE HAN	IDBOOK 19	192:		
		FOR	M FOR P	RESENCE-OR	ABSENCE	AND CLEA	RANCE SUR	VEYS	
Pro	oject Site	X	Zone of	Influence		ft	from Proje	ct Site	
Transect	rength: )	9 BD 3	ET W	ratu://30 i.	ひり	tner	it 1	ime 7:	Bam
Weather:	$Airtemp^{ au}$	at:	5 cm 76;	Bogp Surf	ace 750	Clou	id cover	0 8	
	Rainfall	1):	in Win	d speed 6-6	mah Rais	ıfall in	last 30 d	ays 🕖	in
Land Form	n (e.g., m	esa, h	oajada,	wash)	r				_
% S	Slope: hig	h	low	$\chi$	Aspect		Elevati	on 122	7 ft
Soils	•				· ··- ·- <del>-</del>	· ·-			· .
Vegetatio	n: domina	nt per	ennials	Autotak	-6-1,6	es Lev	rea tribestate		
	domina	nt ann	uals 🐴	nstakia,	Sdigma	5			
	<del></del>			•					
Adjacent	Land Use:	up to	) 1 mi_≠	100 5 16 (5510	n line,	· · · · · · · · · · · · · · · · · · ·			
Soils_						<del>, ,</del>			
Vegetat	ion	inc							
****			======	=========		.======	.=======	======	<b>===</b> ====
			TOT				2		
Correct				Shelter		Sca	its <sup>2</sup> She.		
Sign				allet/Burro			Rema	ins '	
	Adul	t/Juv.		Active/Inac	ctive '				
	A=	J≃	ł	-40	-##		A=	J≖ Un.	k=
				į vir	the IN-	M=	F= Un	k=	
·····	<del></del>			<i></i>	·				
Tracks				g Courts	-	her	<u>Neotoma</u>	Middens	
	Fragme	nts	Sites	Rings	3		w/sign	:w/	o sign
- <b>-</b>									
U	#			1	ll l		:		
*****	========			*******		======================================	=======	======	=====
·				AN DISTURBA					
Tire	Human			ash Dump			Blading	Ravens	Other
Tracks	Footprint	s Si	gn	Sites	Rifle	Shells			
			1		:			·	
1		H	II.	Ħ	[	1	1	-	

est and the second of the seco	
January 1992	M/D/Y
•	Date =/2/08(1)
(place a 4 X 6 photograph showing the	Transect No. 6-499-6-500 + 1 5-1
area where the transect was conducted)	State CA 2 2 Section
	County In Benedin
•	City Banston
This form should be completed for those	Recorder left labour
transects that contain one or more desert	Address
tortoise sign. After the project site and	Project Name St.
Zone of Influence have been surveyed for	Type of Project
tortoise sign, the results from the transect	()(~~
forms should be compiled on a summary form.	Quad Name
	Scale
If no tortoise sign occurs on the project site	Site Name
or Zone of Influence, the summary form should	T R Sec
be completed. Please fill in all sections on	र्भ Sec - ५५ Sec
the top $2/3$ of the page of the summary form.	UTM Zone
	Northing
	Easting
	Parcel No.
DECERD CORROTOR WITH THE	w/ has The
DESERT TORTOISE HANDBOOK 1 FORM FOR PRESENCE-OR-ABSENCE AND CLE	
Transect Length: 155hih ft Width: 30 ft Other	from Project Site
Weather: Airtemp at: 5 cm 90 of Surface 17 of Clo	ft Time 11:115am
Rainfall in Wind speed 12-15 Rainfall in	oud cover 4
Land Form (e.g., mesa, bajada, wash) h1//5 And bajada	1 last 30 daysin
* Slope: high o low Aspect	Elevation ft
Soils Sandy + igreons roll	Elevacion
Vegetation: dominant perennials Larre tridentito	
Alcuraphs (15ide	
dominant annuals Amsincking testility	,
Adjacent Land Use: up to 1 mi	
Soils Sandy	
Vegetation Larra/s/puriphis	
*	
TOTAL NUMBER OF	
	ats <sup>2</sup> Shell
Sign Tortoises Pallet/Burrow/Den	Remains 3
Adult/Juv. Active/Inactive 1	
1 B= I- 1 / Inac/W	
$   A = J =    \frac{2 \ln (2 / \sqrt{2})}{1 + 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1}  $	A= J= Unk=
M= M	F= Unk=
Tracks Eggshell Drinking Courtship Other	
Tracks Eggshell Drinking Courtship Other Fragments Sites Rings	Neotoma Middens
	W/5/UD 1W/0 6100

Trash

Dog

Tire

Human

Tracks Footprints Sign

Rings

Dump

Sites

SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SEEN

Shotgun/

Rifle Shells

w/sign

Blading Ravens Other

;w/o sign

•				
			,	
	Forms Completed In	cidentally During Otl	her Field Efforts	
	•			

Do not abbreviate Data Sheet	for Live Desert Tortois	es	Write on this side only
Located by MIKILADL HONDR + KRISTIN	MARSH	Tortoise ID #	Sle_Live DTI
2554154,57		first marked	
Processed by Study site name  "SOLAR 6"		fication of ID	_
TownshipRange			L.J. Cov
Section Quadrat	1 1 1	Capture type	14 May 2008
	1 1 1	e (dd/mm/yy)	
Coordinates (Reference SW corner)  meters North meters East	Tim	ne (PST): Start	3:35 pm
055 205350Z	Fre	equency	Transmitter #
UTM's 0555205 n 3853502 e  Elevation 2774 m Accuracy ± m	Show location of Tr	ransmitter type	
Elevation M Accuracy ± m		itter attached	***************************************
County S, BERMEDINO State CA	Transm	itter to be replac	ed on
O On Plot O Off Plot	PIT	#	***************************************
Tortoise Location	Burrow Data		Survey Type
Cover site type: At cover site: Not at cover site:			O Radio track
☐ burrow ☐ entering 점 in open	ID# 5W Faung		O Burrow search
	rientation	jht .5 '',	O Coverage 1
shreib on mound 2 m, from	Length Heigh	reroand, 47ave	O Coverage 2
☐ caliche cave ☐ inside ☐ // // // // // // // // // // // // /	Location		'' <b>★</b> Incidental <b>À</b> Other
BURROW			Onio .
Tortoise Activity  I resting  Interacting with other tortoise I	D & sex of other tortoise JVD Dab Species GOF HSLVS AGIZ:	ly MALE	1 .0 A A - A \ A \ .1 C
☐ resting ☐ Interacting with other tortoise ☐ Interacting with other animals ☐	Species GOPHELUS AGIZ.		RARE PLANT
walking Describe interaction:			1
☐ feeding			
Plants/items eaten (specific):			
1			
Color (shell & skin) HV Hue Value Chroma	Color		•
Color (shell & skin) HV Hue Value Chroma	Color	blind? O Ye:	o Vol No
V1 (center)			
V4 (center)	Type of blin		***************************************
LC1,2&V2 (seam) LM5,6 & LC2 (seam)	Body Measu	rements	Behavior
Foreleg	MCL (mm)		
Hindleg	PLN (mm)		·
	. Weight (g)		1
77 77	Void (g)		· ·
	Total wt (g)		
	New growth	•	·
	present [	absent	1
$\prec$ // $\top$ $\top$ //	Epoxy #	112-1-	·
	present [	l legible	
	Other notes	<u> </u>	
W-1-171	Anox	(3" Long 1	oy 8-9"WIDE
	9-6"	7.11	- 0 1 W. PO
	1 5-6	1011	
Strate Strategy			
$\mu + \mu$			
	Photo	s; roll	frames Yes
$\mathcal{L}$	Draw locations of n	otches (old and	new), chips, and anomalies, et
KLLLLLLLLLL	Describe anomalies in number	ering of margina	ls and any identification probler
	m	] , , , , , , , , , , , , , , , , , , ,	
M + M	Entered by M, HONER	date	on computer
	Modified by	on	© Berry 199

Data Sheet for Live Desert	Tortoises Write on this side only
Located by M. Honer & K. Marsh	Tortoise ID# <u>Desertort Live 2</u> & CPS
Study site name Solar 3 Site	Year first marked  Year first marked  S3_Live D
Study site name Solar of Site 30 ar 5	Verification of ID
Township Range	Capture type Sex
Section Quadrat	Date (dd/mm/yy) <u>D3/17/08</u>
Coordinates (Reference SW corner)	Mana ana
meters North meters East	
UTM's 0552240 n 3853587 e	Frequency Transmitter #
Show location of	Transmitter type
-	Transmitter attached
CountyState	Transmitter to be replaced on
O On Plot O Off Plot	PIT#
Tortoise Location Burrow Data	_
Cover site type: At cover site: Not at cover site:	Survey Type
☑ burrow MovY110 ← entering ☐ in open ID #	O Radio track O Burrow search
☐ paller	0.0
☐ shripb ☐ on mound ☐ Length UNL ☐ caliche cave ☐ inside ☐ Width ☐ Width ☐ UNL ☐ Caliche Cave ☐ inside ☐ UNL ☐ Caliche Cave ☐ inside ☐ UNL ☐ UN	Height - W. M. January Co.
rock shelter Location Prist - Faux	Soil cover Sandy grave O Coverage 2  O Incidental  O Other
[ ·	OOther
Tortoise Activity ☐ Interacting with other tortoise ID & sex of other tortoise	and L
basking Interacting with other animals Species	3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
walking Describe interaction:	
feeding	
Plants/items eaten (specific):	
	·
Color (shell & skin) HV Hue Value Chroma Color	<del></del>
V1 (center)	you color blind? O Yes
144	/pe of blindness
1C1 281/2 (200m)	
	HN-1211.
	(mm)
Waio	tht (g)
	oid (g)
	wt (g)
100,000	growth
	esent absent
Epox	
□ pr	esent legible
Other	notes
STAN I	
$\mu \perp 1/M$	
IN TYM	Photos; roll frames
	tions of notches (old and new), chips, and anomalies, etc.
Describe anomalies	in numbering of marginals and any identification problems.
Entered by	date on computer
	tions of notches (old and new), chips, and anomalies, etc.

Do not abbreviate Data S	Sheet for Live Desert Tortoises	Write on this side only
Located by Glen Kingshita	Takina ID	41
Processed by	Tortoise ID	
Study site name	15 Teal instinance	***************************************
	Venication of it	) [
Township	Capture type	
Section Quadrat	Date (dd/mm/yy	20/07/2008
Coordinates (Reference SW corner)	Time (PST): Sta	• •
meters North meters	East	
UTM's 546004 n 38552)6	31 32	Transmitter #
Elevation 1964 m Accuracy ± 61	Show location of Transmitter ty	pe
		d
County EmBurantie State A	Transmitter to be rep	placed on
O On Plot O Off Plot	PIT #	***************************************
	,	
Tortoise Location	Burrow Data	Survey Type
Cover site type: At cover site: Not at cover		Radio track
☐ burrow ☐ entering ☑ in open	ID#	O Burrow search
paller exiting cother	Orientation	O Coverage 1
☐ shrub ☐ on mound ☐ caliche cave ☐ inside	Length Height Soil cover	O Coverage 2
☐ caliche cave ☐ inside ☐ rock shelter	Location	O moderitar
		Cartain Other Cartain Other
Tortoise Activity		
	oise ID & sex of other tortoisenals Species	vare plant
☐ basking ☐ Interacting with other anir ☐ walking ☐ Describe interacting with other anir ☐ Describe interacting with other i	1 —————————————————————————————————————	rave plant
☐ feeding	,	
Plants/items eaten (specific):	<u>.</u>	
tarios aprilo decor (openino).	<del></del>	
Color (shell & skin) HV Hue Value Ch	roma Color	•.
V1 (center)	Are you color blind?	Yes 🏚 No
V4 (center)	Type of blindness	4
LC1,2&V2 (seam)	Body Measurements	Behavior
LM5,6 & LC2 (seam)	·	benavior
Foreleg	MCL (mm)	I alks Come
Hindleg	PLN (mm)	walting, froze when encountered and withdren
	Weight (g)	when encountered
LAT TOWN	Void (g)	and with large
$\mathcal{V} \setminus \mathcal{V}$	Total wt (g)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
-	New growth	into shell
\	present absent	1
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	present legible	
	Other notes	
V-1-127)		`.
ino marks	or damoge	٠,
		<del>-</del> ,
A TO		4
$\mathcal{L} \cup \mathcal{L}$	Υ	
	Photos; roll	frames
$\mathcal{K} \left( \begin{array}{ccc} & & & & & & & & & & & & \\ & & & & & & $	Y Y1	and new), chips, and anomalies, etc.
$H \cap H$	Describe anomalies in numbering of margi	•
	<b>X</b>	with any identification problems.
$\mathcal{M}$	Entered by date	on computer
10 L	Modified by on	© Berry 1997
	·	—— ⊌ Berry 1997

Data Shee	t for Live Desert Tortoises	Write on this side only
Located by K March T. Ont F Klein	Tortoise	10# Destart live \$61
Processed by	Year first mar	
Study site name Solar Le project	Verification o	***************************************
Township Range	[. 1	- M
ection Quadrat	Capture t	
oordinates (Reference SW corner)	Date (dd/mm/	
meters North meters East	Time (PST):	Start 15 End
113-10-19 20112-1 2488	Frequency	Transmitter #
лиз 562078 п 3847059 г 2480	Show location of Transmitter	type
Elevation m Accuracy ± m	tortoise in quadrat Transmitter attac	hed
untyState		replaced on
•		
On Plot O Off Plot		
ortoise Location	Burrow Data	
over site type: At cover site: Not at cover site:		Survey Type
burrow ☐ entering ☒ in open	ID#	O Radio track
paller ☐ exiting ☐ other	Orientation	C) Coverage 1
shrip on mound	Length Height	O Coverage 2
caliche cave inside on road rock shelter	Width Soil cover	O Incidental
1	COMMUNICATION AND AND AND AND AND AND AND AND AND AN	COOther
ortoise Activity	man diecht	
resting Interacting with other tortoise basking Interacting with other animals	ID & sex of other tortoise PStorfueSe2 Species	
walking Describe interaction:	Opecies	
feeding		
ants/items eaten (specific):		<u> </u>
and to the calculations.		
		,
	<u> </u>	
ofor (shell & skin) HV Hue Value Chroma	Color	,
V1 (center)		O Yes O No 15 in long
V4 (center)	Type of blindness	
LC1,2&V2 (seam)	Body Measurements	Behavior Sintell
M5,6 & LC2 (seam) Foreleg	MCL (mm)	· · · · · · · · · · · · · · · · · · ·
Hindleg	PLN (mm)	wasking on road
·dog	. Weight (g)	
(16-7-13/X)	Void (g)	
$\langle \chi \chi$	Total wt (g)	
	New growth	
	present absent	ĺ
	Epoxy #	
V / /   120	present legible	
	Other notes	
VILL BY		
		•
A PARTY		
(Y   1 XX		
1 A A A A	Dhoton will	for my a
$V \cap V \cap V$	Photos; roll	,
$Q \mid   \cdot   \cdot   \cdot   \cdot   \cdot   \cdot   \cdot  $		f and new), chips, and anomalies, etc.
	Describe anomalies in numbering of ma	rginals and any identification problems
K TT X	Entered by date	on computer
		on computer
	Modified by on	© Berry 1997

	for Live Desert Tortoises	Write on this side only
Located by K. March, T. on H., E. Kleu Processed by Study site name Solar Le Proposit	Tortoise ID # Year first marked	Destrolle2
Study site name Solar Le Propos	Verification of ID	-
Township Range	7	Sex <u>M</u>
Section Quadrat	Capture type	3/ log
	Date (dd/mm/yy)	3/30/08
Coordinates (Reference SW comer)	Time (PST): Start	12:00 End
meters North meters East  11.5 156.2045 n 364.7050 e 8474	A Frequency	Transmitter #
UTM's \$562095 n 3847050 e 8976	V Show location of Transmitter type	
Elevation m Accuracy ± m		
		d on
On Plot Off Plot	PIT #	
Tartaina Lagatian		
Tortoise Location	Burrow Data	Survey Type
Cover site type: At cover site: Not at cover site:	ID #	O Radio track
Gordenia Dalobei	ientation ————————————————————————————————————	O Burrow search
☐ exiting ☐ other Or ☐ shreb ☐ on mound ☐	Length Height	O Coverage 1
☐ caliche cave ☐ inside	Width Soil cover	O Coverage 2 O Incidental
	Location	O incidental - O Other
Tortoise Activity		=
resting Zainteracting with other tortoise IE	0 & sex of other tortoise Destora Live   L	1
☐ basking ☐ Interacting with other animals _ S	pecies	.
Walking Describe interaction:		
Z feeding		1
Plants/items eaten (specific):		
8 January on Cata		
Plantago orata	A TO SEE THE SECOND SEC	
Color (shell & skin) HV Hue Value Chroma	Color	
The value Chroma	Color	·
V1 (center)	Are you color blind? O Yes	ONO Fin long
V4 (center)	Type of blindness	5 in wide
LC1,2&V2 (seam)	Body Measurements	Behavior 4 intall
LM5,6 & LC2 (seam)		2 (1/1,100)
Foreleg	MCL (mm)	
Hindleg	PLN (mm)	
	. Weight (g)	
	Void (g)	
	Total wt (g)	
-{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	New growth	
>	present absent	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Epoxy #	
	present legible	1
	Other notes	
	İ	
A TOTAL OF THE PROPERTY OF THE		
$U \mid I \mid N$		
Mark M	Photos; roll	frames
L L I YM	Draw locations of notches (old and no	
$\mathbf{R} + \mathbf{I} + \mathbf{I} + \mathbf{I}$		
	Describe anomalies in numbering of marginals	and any identification problems.
$\mathcal{H}$ $\mathcal{H}$ $\mathcal{H}$ $\mathcal{H}$	Entered by date	on computer
$\mathcal{L} \cup \mathcal{L}$		<u> </u>
	Modified by on	© Berry 1997

nuary 1992	<u>,</u> м/р/ү
	Date 2 APRIL ZOD7
lace a 4 X 6 photograph showing the	Transect No.
rea where the transect was conducted)	State CA
	County San Bernardino
	City & Bargion
is form should be completed for those	Recorder 6. Haisington / M. Hover
insects that contain one or more desert	Address URS
ttoise sign. After the project site and	Project Name Solar 1
ne of Influence have been surveyed for	Type of Project
rtoise sign, the results from the transect	
rms should be compiled on a summary form.	Quad Name
ins should be complied on a summary form.	Scale
no tortoise sign occurs on the project site	
Zone of Influence, the summary form should	Site Name T R Sec
completed. Please fill in all sections on	
· · · · · ·	4 Sec 44 Sec
top 2/3 of the page of the summary form.	UTM Zone IIS WES EN
	Northing 054955
	Easting 3841902
	Parcel No.
DECEDE MARMATAN HAMPTON 1	MAP 35
DESERT TORTOISE HANDBOOK 19	· ·
FORM FOR PRESENCE-OR-ABSENCE AND CLEA	
Project Site   Zone of Influence   ft	
	ft Time
ther: Airtemp at: 5 cm \$60 ° \$ Surface \$85 ° \$ Clo	
Rainfall O in Wind speed 2 Mph Rainfall in	
id Form (e.g., mesa, bajada, wash) Gently sloper allovial for	
* Slope: high low 5° NE Aspect	Elevation 2904 ft
1s cabble	<del> </del>
etation: dominant perennials Creosofe burrowbush ecoub	
- Andrews	
dominant annuals	
At .	
acent Land Use: up to 1 mi warme base	
oils Coblole	
egetation Crossofe barrowshisterus	
TOTAL NUMBER OF	3
orrected Live Shelter Sites Sc	ats Shell
Sign Tortoises Pallet/Burrow/Den	(Remains 3) 12" dlamater Mare
Adult/Juv. Active/Inactive 1	
A= J=	$A = \{ \}'' \text{ J= Unk=}$
n −	F= Unk=
••	•
racks Eggshell Drinking Courtship Other	Neotoma Middens
	w/sign :w/o sign
Fragments Sites Rings	w/sign :w/o sign
1 1 1	
]	· 
SIGNS OF HUMAN DISTURBANCE - NUMBER AN	
Tire Human Dog Trash Dump Shotgun/	Blading Ravens Other
racks Footprints Sign Sites Rifle Shells	

January 1992	M/D/Y
	Date 2 APRIL ZOO7
place a 4 X 6 photograph showing the	Transect No.
area where the transect was conducted)	State CA
	County San Bernardino
	City EBarston
this form should be completed for those	Recorder 6. Hoisington /M. Hover
ransects that contain one or more desert	Address URS
ortoise sign. After the project site and	Project Name SOLAR I
one of Influence have been surveyed for	Type of Project
ortoise sign, the results from the transect	
orms should be compiled on a summary form.	Quad Name
	Scale
f no tortoise sign occurs on the project site	Site Name
r Zone of Influence, the summary form should	TR Sec
e completed. Please fill in all sections on	र्भ Sec - ५५ Sec
he top $2/3$ of the page of the summary form.	UTM Zone IIS INGS 84
	Northing 0549955
	Easting 3841902
1	Parcel No.
	MAP 35
DESERT TORTOISE HANDBOOK 1992:	
FORM FOR PRESENCE-OR-ABSENCE AND CLEARANCE SUR	VEYS
Project Site   Zone of Influence   ft from Project	ect Site
· · · · · · · · · · · · · · · · · · ·	Time
eather: Airtemp at: 5 cm × 80 °QF Surface × 85 °QF Cloud cover_	
Rainfall O in Wind speed ~12 mph Rainfall in last 30 o	iays <u>~ 0,1</u> in
and Form (e.g., mesa, bajada, wash) Gently sloping alluvial fan	·
	ion <u>7904</u> ft
sils Cobble	
egetation: dominant perennials Creosofe burrowbush ecrub	
dominant annuals	
.000	•
ijacent Land Use: up to 1 mi warme base	
Soils Cobole	
Vegetation Cressote bandwish scrub	
TOTAL NUMBER OF	
Corrected Live Shelter Sites Scats 2 She	
Sign Tortoises Pallet/Burrow/Den Rema	
-	ins 12 bitter 15 bitter
Adult/Juv. Active/Inactive 1	
Ø # # # # # # #	
$\parallel A = J = \parallel \parallel A = 12''$	
M = F = Ur	ık=
	Middens
Fragments Sites Rings w/sign	:w/o sign
(f	
CONTRACTOR OF WARRENING TO SOME THE STATE OF	
SIGNS OF HUMAN DISTURBANCE - NUMBER AND TYPES SE	<del></del>
	Ravens Other
Tracks Footprints Sign Sites Rifle Shells	
"torineral Science"	*

Do not abbreviate Data Sheet for Live D	esert Tortoises	Write on this side only
Processed by C. HOKINGYON	Tortoise ID # Year first marked	
Study site name Solar   Township Range Section Quadrat	Verification of ID Capture type	Sex Onkhown
Coordinates (Reference SW corner)  meters North meters East	Date (dd/mm/yy) Time (PST): Start	3 APP12 2007
UTM's 0547964 n 3840197 e	ation of Transmitter type	£
Elevation 2876 Accuracy ± 13 Hy tortoise in County AN BERNAUNState CA	Transmitter to be replace	ed on
O On Plot O Off Plot WAY POINT 202 Photo 448	PIT #	
☐ pallet ☐ exiting ☐ other Orientation	Height 5"  Z Soil cover Decomposed	Survey Type O Radio track O Burrow search O Coverage 1 O Coverage 2
☐ rock shelter Location	= 2' deep burrow [	O Other
resting Interacting with other tortoise ID & sex of other	er tortoise	-
Plants/items eaten (specific):		
Color (shell & skin) HV Hue Value Chroma Color		
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Are you color blind? O Yes Type of blindness  Body Measurements  MCL (mm)	O No Behavior
Hindleg	PLN (mm) Weight (g)	
	Void (g) Total wt (g) New growth	
	□ present □ absent Epoxy # □ present □ legible	·
	Other notes	
AIII	Photos; roll	frames
	raw locations of notches (old and r nomalies in numbering of marginals	new), chips, and anomalies, etc
Entered by	date	on computer
Modified by	on	© Berry 1997

Do not abbreviate Da	ata Sheet for Live Desert Tortoises	Write on this side only
Located by MV/BC	Tortoise ID #	
Processed by	10110100 12 17	
Study site name	·	-
Township Range		, <b>ப</b>
Section Quadrat	Suprais type	Sex
	Date (dd/mm/yy)	04/10/2007
Coordinates (Reference SW corner)	Time (PST): Start	Énd
meters North m	Frequency	Transmitter #
UTM's 557106 n 3851143	Show location of Transmitter type	
Elevation m Accuracy ±		***************************************
ountyState	, and and an area	ed on
O On Plot O Off Plot	PII #	
Tortoise Location	Burrow Data	Survey Type
Cover site type: At cover site: Not a	t cover site:	O Radio track
X burrow ☐ entering ☐ in a	ppen ID#	O Burrow search
pallet exiting cth	a company to the	O Coverage 1
shrub on mound	Length Height 9	O Coverage 2
] caliche cave  □ inside  □ ] rock shelter	Width 10" Soil cover Location 2 MI ME PISGAH CRIR	O Incidental
i	LOCATION	C Other
ortoise Activity		
resting Interacting with other		7
basking Interacting with othe	ranimals Species University and Species	
] walking Describe in ] feeding	nteraction:	
-		
lants/items eaten (specific):		
		".
		•
color (shell & skin) HV Hue Valu	ue Chroma Color	
		S O No
V1 (center) V4 (center)		
LC1,2&V2 (seam)	(),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LM5,6 & LC2 (seam)	Body Measurements	Behavior
Foreleg	MCL (mm)	
Hindleg	PŁN (mm)	
·	Weight (g)	
	Void (g)	
	Total wt (g)	
$V \setminus V$	New growth	
	present absent	
7 77 1	Epoxy #	
$\mathcal{N}$	present legible	
$\sim$ $\sim$ $\sim$	Other notes	
VAL C	$\langle \rangle$	
	Z>	
17	$\sim$	
M. J.	Chatasi sall	frames
$VY \mid Y$	Photos; roll	\
Q I I	Draw locations of notches (old and	
	Describe anomalies in numbering of marginal	s and any identification problems
W Y	Entered by date	on computer
		1 on computer 1
	Modified by on	© Berry 1997

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Do not abbreviate	Data Sheet for Live Desert	Tortoises	Write on this side only
Located by MKHAEL HOVE	R. KELLY SLEETH	Tortoise ID #	
Processed by M.HONEL		Year first marked	2007
Study site name SOLAR-ONE	- CADY MINS ARDA	☐ Verification of ID	~
Township Rang	· · · · · · · · · · · · · · · · · · ·	Capture type	Sex
Section 3( Quadra	at <u>SE</u>	Date (dd/mm/yy)	10 / 04/ 2007
Coordinates (Reference SW corr		Time (PST): Start	1:50 pmend
meters North 🙋 🛄	meters East		Transmitter #
UTM's 3853517 n 0556	6039 e	T	
Elevation 700 m Acc	uracy ± 10' m Show location of tortoise in quadra	, ,	
County SAN BERNARDINO State			ed on
O On Plot O Off Plot	•••••••••••••••••••••••••••••••••••••••		
JOHNST GOILLING			
Tortoise Location	Burrow Data		Survey Type
Cover site type: At cover site:	Not at cover site:		O Radio track
□ burrow □ entering	☐ in open ☐ ID # ☐ Orientation ☐ Facing	2 3 1770	O Burrow search
<b>⊠</b> pallet □ exiting	other Orientation	. Height	O Coverage 1
☐ shrub ☐ on mound ☐ caliche cave ☐ inside	Length 14"	Soil cover SANDY	O Coverage 2
☐ caliche cave ☐ inside ☐ rock shelter	Location CONSULIO	Soil cover SANDY	Moridental Moridental → O Other
	BERM AT BASE	OF VOLCANIC HICL.	
Tortoise Activity		SeM	<u></u>
	escribe interaction:		·
☐ feeding		2	
Plants/items eaten (specific):			
- Color (shell & skin) HV 🗀	Hua Value Phroma Color		the state of the s
Color (shell & skin) HV		e you color blind? O Ye	s ÓN No
V1 (center)	TAN-GREY AT	•	s Ó¥ No
V1 (center) V4 (center)	TAN-GREY AT	Type of blindness	***********************
V1 (center) V4 (center) LC1,2&V2 (seam)	TAN-GREY AT	•	Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam)	TAN-GREY AT	Type of blindness	Behavior
V1 (center) V4 (center) LC1,2&V2 (seam)	TAN-GREY AT	Type of blindness	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAN-GREY  Boo  MI  PI	Type of blindness	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAN-GREY  Boo MI PI	Type of blindness	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW-GREY AT  BOOM PI  WI	Type of blindness  y Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)	Behavior
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW-GREY  Bod  MI PI WI	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAN-GREY  Boo  MI  PI  We	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAN-GREY  Book Mit Pi  We  Tot Nee	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW-GREY  Boo  MO  PI  Wo  Tot  Nee	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  LN (mm) eight (g)  Void (g) al wt (g) w growth present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  LN (mm) eight (g)  Void (g) al wt (g) w growth present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  LN (mm) eight (g)  Void (g) al wt (g) w growth present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  LN (mm) eight (g)  Void (g) al wt (g) w growth present	Behavior  RESTING DUTSIDE
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	TAW- GREY  Boo  Mo  Pl  Wo  Tot  Ne  Coth	Type of blindness  Iy Measurements  CL (mm)  IN (mm)  eight (g)  Void (g)  al wt (g)  w growth present   absent  exy # present   legible  iter notes	Behavior  RESTING OUTSIDE BURROW, FACING WEST
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Ep	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING OUTSIDE BURROW, FACING WEST
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Ep	Type of blindness  ly Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING OUTSIDE BURROW, FACING WEST
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Ep	Type of blindness  ly Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING OUTSIDE BURROW, FACING WEST
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Ep	Type of blindness  ly Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING OUTSIDE BURROW, FACING WEST
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Draw lo Describe anomali Entered by	Type of blindness  Iy Measurements  CL (mm)  LN (mm)  eight (g)  Void (g)  al wt (g)  w growth  present	Behavior  RESTING OUTSIDE BURROW, FACING WEST  frames Inew), chips, and anomalies, etc. als and any identification problems.  on computer
V1 (center) V4 (center) LC1,2&V2 (seam) LM5,6 & LC2 (seam) Foreleg	Tot Ne Draw lo Describe anomalis	Type of blindness  Iy Measurements  CL (mm)  IN (mm)  eight (g)  Void (g)  al wt (g)  w growth present	Behavior  RESTING OUTS IDE BURCOW, FACING WEST  frames Inew), chips, and anomalies, etc. als and any identification problems.
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	Sheet for Live Desert Tortoises	Write on this side only
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Tortoise Activity		
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Do not abbreviate Data Shee	t for Live Desert Tortoises	Write on this side only
Located by Wayne Vogler, Kelly Slee	Tortoise ID #	
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Township Solar 1 Aerial Map 2	Verification of ID	
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Plants/items eaten (specific):		
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V1 (center)		
V4 (center) LC1,2&V2 (seam)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LM5,6 & LC2 (seam)	Body Measurements	Behavior
Foreleg	MCL (ppr) 10 in 254 PLN (ppr) 145	resting, limbs drawn up, fresh scrapings/burrowing around individual
Hindleg	PLN (mm) 145	Langer Rock
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TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 323: Please specify the agencies that have accepted the desert

tortoise surveys as being valid and that have stated no additional survey effort is necessary. In your response, please

cite the individuals that have made these determinations.

**Response:** The following agencies and individuals have accepted the desert tortoise surveys are valid and that no additional survey effort is necessary:

 United States Fish and Wildlife Service – Ashleigh Blackford and Ray Bransfield

Bureau of Land Management – Chris Otahal and Larry LePre

California Department of Fish and Game – Becky Jones

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 324:** Please provide any documentation in the applicant's possession

that demonstrates that no additional survey efforts are needed.

Response: Survey protocols were accepted by the USFWS, BLM, and CDFG via personal

communication and as acknowledged by the agencies during the CEC workshop

held on October 8, 2009 in Barstow, CA.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 325: Please clarify the acreage value that will be used to determine

desert tortoise habitat compensation.

**Response:** The entire approximately 8,230-acre Project site will be used to determine desert

tortoise habitat compensation.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 326: If portions of the Project site and temporary access road will be

impacted but not included in habitat compensation calculations, please discuss how these portions of the Project were deemed

unsuitable for desert tortoise.

Response: The entire approximately 8,230-acre Project site will be used to determine desert

tortoise habitat compensation.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 327: Please clarify whether the applicant's mitigation for proposed

maintenance activities outside of the perimeter fence hinges solely on the requirements of the resource agencies, or whether the applicant continues to propose the mitigation measures outlined in the AFC. If the latter, please discuss how occupied desert tortoise habitat will be identified in areas requiring

maintenance activities.

Response: A biological monitor will be present during maintenance activities that occur in

desert tortoise habitat outside the perimeter fence. Native creosote bush scrub habitat outside the perimeter fence will be considered desert tortoise habitat and

treated as if it is occupied during such maintenance.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 328: Please indicate the season of the year pre-construction

burrowing owl surveys will be conducted.

Response: Pre-construction owl surveys may be conducted any time of the year. They will

be conducted 30 days prior to site disturbance for the proposed Project.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 329: Please discuss how the applicant intends to determine owl

residency status, and thus the significance of Project impacts on

burrowing owls.

Response: Residency status of owls can only be determined during pre-construction

surveys for active burrows. Project impacts on burrowing owl are assumed and mitigation land purchased for desert tortoise will also include a burrowing owl

component to offset impacts to burrowing owl.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 330:

Please clarify the applicant's statement that focused surveys were conducted for the burrowing owl by:

- a. Discussing any focused survey efforts (i.e., non-incidental) that were devoted to locating owls and owl sign. Please include the dates these efforts were conducted and the personnel that were involved.
- b. Indicating whether burrowing owl surveys were conducted during the hours around sunrise and sunset, as outlined in the survey protocol.42
- c. Indicating whether burrows were mapped in accordance with the survey protocol.43 If the answer is yes, please provide a map showing burrow concentrations.
- d. Indicating the techniques that were used to determine whether burrows were being used (or had been used) by an owl.
- Specifying whether all burrows were examined for signs of owl use.
- f. Indicating whether potential owl burrows were monitored to determine owl use. If the answer is yes, please provide the dates, times, and locations of the monitoring efforts.
- g. Indicating how much of the Project area and surrounding buffer were surveyed for burrowing owls (i.e., did surveys provide 100% coverage or did they represent a sample).
- h. Indicating whether burrowing owl surveys were conducted outside of the Project boundary, including along the proposed transmission line extension route and around the Pisgah Substation.

**Response:** No burrowing owl focused surveys were conducted.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 331: Please clarify how the proposed pre-construction surveys will

follow the Burrowing Owl Consortium protocol by discussing the

specific components of the protocol that will be followed.

Response:

Proposed pre-construction surveys will follow the Burrowing Owl Consortium Protocol Phase II burrow surveys. Particularly the date and time of visits including weather and visibility conditions. Survey methods including transect spacing (10 meters). Results of survey transects including a map showing the location of concentrations of burrow(s) (natural or artificial) and owl(s), if present.

The entire site will require desert tortoise clearance surveys, this will entail a thorough search of every suitable burrow on-site, while walking 10 meter transects. This level of effort will encompass the burrowing owl pre-construction survey proposed for the site, as each burrow encountered will be inspected for owl sign and use in addition to tortoise occupancy. Each burrow will additionally be scoped (checked with a fiber-optic scope) to ensure no desert tortoise or burrowing owl are present. Any information collected pertaining to the presence of burrowing owls or burrowing owl burrows will be recorded.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 332: Please provide documentation of any correspondence with

CDFG on the need to conduct protocol surveys for the

burrowing owl.

Response: CDFG is aware that the site is occupied by owls, therefore protocol

presence/absence surveys are not required. Pre-construction surveys will

ensure there are no take of burrowing owl.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 333:

Please provide the sampling scheme used to survey for rare plants. Specifically,

- a. Provide the sampling design that was used (e.g., simple random, systematic, stratified random, etc.).
- b. Provide the amount of area inside and outside of the Project site that was included in the sample (i.e., the sample size, or the area that was physically inspected for rare plants).
- c. Provide the sampling methods that were used in the field to ensure systematic and thorough coverage of potential impact areas.
  - i. Were line transects used? If yes, please provide information on the locations of the lines, the length of lines, the spacing between lines, and the number of biologists that walked each line.
  - ii. Were sampling plots used? If yes, please provide information on how plots were established (e.g., random), the size of plots, the total number of plots, their locations, and the number of biologists that inspected each plot.

#### Response:

- a. The entire site was encompassed by a grid of 240-acre squares. Two biologists walked in a meandering path through belt transects approximately 40 meters apart throughout the entire 240-acre cell, with special attention being paid to areas where sensitive species were expected to occur (i.e., drainages and washes).
- b. The entire approximately 8,230-acre Project site and an additional 1,000-foot buffer encompassing an additional 2,660 acres was surveyed for rare plants.
- c. Meandering transects spaced 40 meters apart were used to cover the entire site. Regionally significant populations, if present, would have been detected using this method. The site was covered systematically as each 240-acre cell was surveyed. The length of each transect was the length of one side of a 240-acre cell or approximately 3,230 feet. Each transect was walked by one biologist. The transects were walked such that the biologist walked back and forth across the transect centerline to maximize coverage and potential observance of special status plant species. Additionally, extra time was spent in areas most likely to support the target special status species likely to occur on-site, such as drainage and wash features.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 334: The CEC siting regulation presented in Appendix B (g) (13) (B)

(i) requires detailed maps that show where biological resource surveys were conducted.56 Please clarify whether this regulation applies to the Project. If so, please provide the maps.

Response:

The CEC siting regulation presented in Appendix B (g) (13) (B) applies to the Project. The regulation states that "Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1 inch equals 500 feet (1:6,000) with a 30 percent overlap that show the proposed Project site and related facilities, biological resources including, but not limited to, those found during Project-related field surveys and in records from the California Natural Diversity Database, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the Project facilities." Maps were provided at an appropriate scale to represent the resources onsite. See Figures 5.6-1 to 5.6-6 in the AFC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 335:** CEC siting regulations require the applicant to conduct biological

resources surveys using appropriate field survey protocols during the appropriate season(s), and that State and federal agencies with jurisdiction be consulted for field survey protocol guidance prior to surveys if a protocol exists.57 Please clarify

whether this regulation applies to the Project.

Response: Natural resource agencies involved with the Project were consulted prior to

conducting surveys for this Project. No special status plant species with the potential to occur on site have species-specific protocol surveys that are or were required by these agencies. The BLM and CEC deem the survey methods used acceptable and the surveys are in compliance with the applicable CEC siting

regulations.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 336: The West Mojave Plan requires botanical surveys that conform

to CDFG protocol survey guidelines.58 Please clarify whether the Project is required to meet the conditions set forth in the

West Mojave Plan.

**Response:** The Project is required to meet the conditions set forth in the West Mojave Plan.

We have also looked in the West Mojave Plan and do not find the section that stipulates that CDFG protocol survey guidelines must be followed for botanical surveys. We searched the cited reference (footnote 58): Bureau of Land Management. Final Environmental Impact Report and Statement for the West Mojave Plan: a habitat conservation plan and California desert conservation area plan amendment. Moreno Valley (CA): U.S. Dept. of the Interior, Bureau of Land

Management, California Desert District.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 337: Please justify the abundance numbers the AFC provided for the

four rare plant species detected on the site given the site was

sampled, not censused.

Response: The numbers of the four rare plant species reported in the AFC found during

surveys are simply the results of the surveys performed using methods approved by the relevant agencies, as previously described. The level of effort was appropriate to identify regionally significant populations of rare plants and the results are not meant to be extrapolated to estimate an overall population

density.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 338: Please provide a response to CURE data request 65, which

asked the applicant to discuss whether Project surveyors were aware of the relatively large population of crucifixion-thorn that has historically been documented as occurring within the Project area. If surveyors were aware of this information, please discuss any extra effort that was devoted to locating the population.

any extra enort that was devoted to locating the population.

**Response:** Based on queries to the California Natural Diversity Database (CNDDB), there were no reported relatively large populations of crucifixion-thorn within the

Project area. The CNDDB is a database of sensitive plant and animal observations throughout the state of California, maintained by the California Department of Fish and Game. The CNDDB shows a large population of crucifixion-thorn approximately six miles east of the site, with smaller populations approximately two miles south of the site; approximately two miles northeast of the site, and approximately seven miles southeast of the site. The survey conducted was sufficient to detect the occurrence of crucifixion-thorn, a large

shrub/tree species.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 339: Please confirm that the applicant will not be making any effort to

avoid and minimize Project impacts to the rare plants known to occur in the Project area as suggested in the applicant's

response to CURE data request 66.

Response:

It is not true that the Applicant will not be making any effort to avoid and minimize rare plant populations known to occur on-site. Rare plant populations will be flagged prior to site disturbance. Efforts will be made to minimize/avoid impacting these populations to the extent feasible. 75-foot strips of native vegetation will remain intact between every other row of two SunCatchers. Rare plants occurring in these strips will not be impacted. Vegetation under the other two rows of SunCatchers will be mowed to allow for installation of SunCatchers. but will then be allowed to regenerate from the cut stems, seed or other means. The majority of rare plants on-site are annuals which seasonally grow and die back. Most annuals on-site are also smaller plants less than 12 inches tall. That being said, depending on the time of year the trimming takes place, some of these plants may not have even emerged from the ground when trimming occurs. Even if they are present during trimming, it is anticipated that the annual rare plants occurring in mowed vegetation areas will regenerate and continue to persist because the seedbank for these species will remain undisturbed in the soil.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 340: Please discuss the local, regional, and range wide significance

of Project impacts on small-flowered androstephium.

Response: This request was previously asked and answered (please see the Applicant's

response to CURE Data Request 58). The previous answer is provided below:

In the immediate area the BLM has designated the Pisgah Area of Critical Environmental Concern (ACEC). There are as many small-flowered androstephium inside this ACEC. This species occurs throughout the desert province, but is largely concentrated in the Mojave Desert. This Project impacts a small area within the greater range of this species and nearby occurrences have been conserved through the creation of the ACEC adjacent to the Project site.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 341: Please discuss the cumulative impacts of the Project on small-

flowered androstephium. In your response, please indicate the number of known occurrences of small-flowered androstephium that will remain if all projects proposed for the region are

approved.

Response: Because the entire range of small-flowered androstephium has not been

surveyed, it is impossible to determine the overall number that exist. We do not have data from other proposed projects in the region that show whether or not small-flowered androstephium occurs on those projects or not, and cannot practicably estimate the number of known occurrences of small-flowered androstephium that will remain if all the projects proposed for the region are

approved, which in itself is highly unlikely.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 342: Please discuss the cumulative impacts of the Project on white-

margined beardtongue. In your response, please indicate the number of known occurrences of white-margined beardtongue that will remain if all projects proposed for the region are

approved.

Response: Because the entire range of white-margined beardtongue has not been

surveyed, it is impossible to determine the overall number that exists. We do not have data from other proposed projects in the region that show whether or not white-margined beardtongue occurs on those projects or not, and cannot practicably estimate the number of known occurrences of white-margined beardtongue that will remain if all the projects proposed for the region are

approved, which in itself is highly unlikely.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 343: Please provide a revised "Regional Context" map (similar to

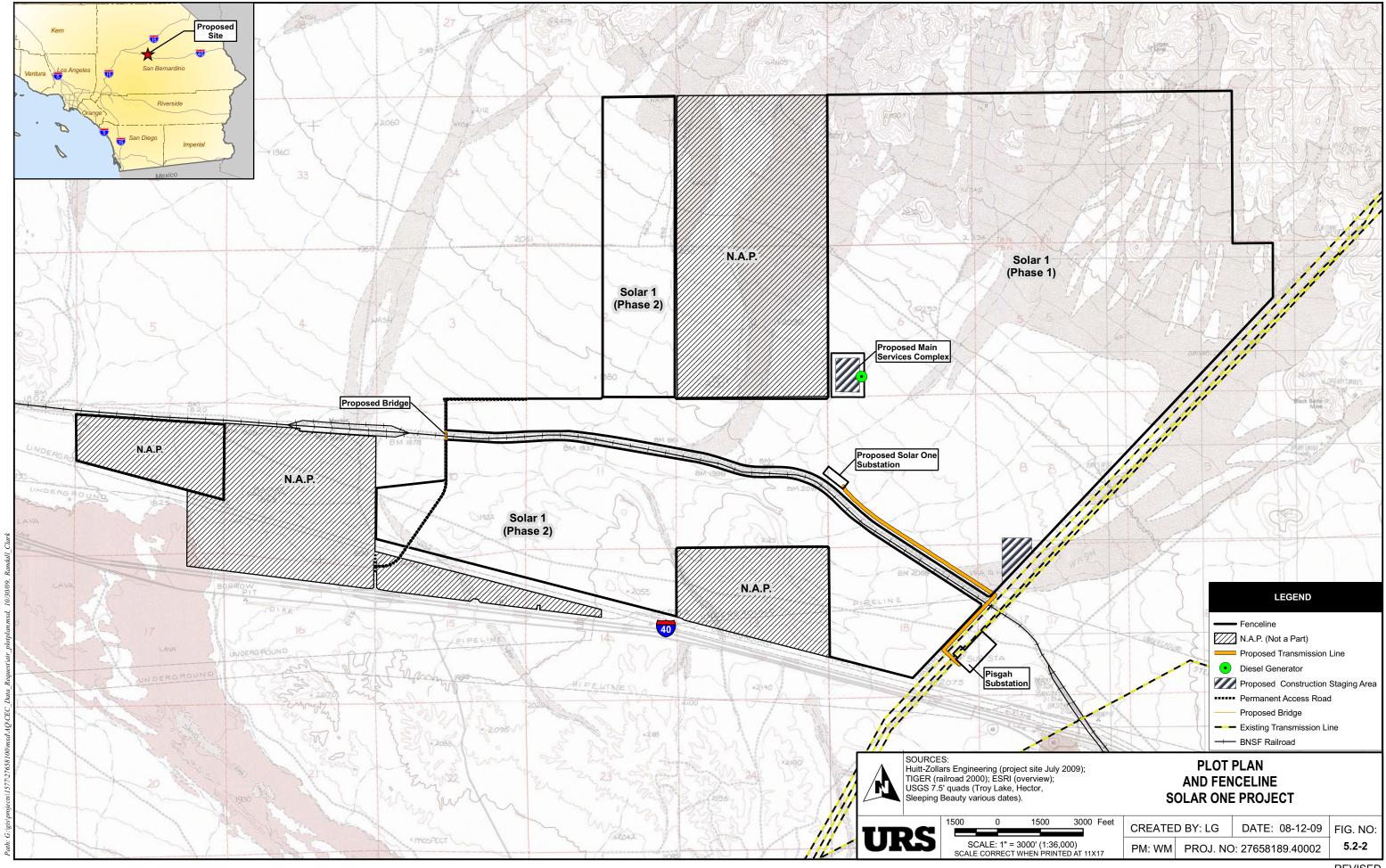
AFC Figure 5.6-7) that includes current information on proposed

development projects.

Response: The requested figure is provided as attachment BIO-2, located behind this

response. As was explained to CURE during the Issues Identification and Data Request Resolution workshop, this data is publicly available through the BLM LR-2000 database and should CURE wish to track changes in this information,

they need only to visit the website.



TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 344:** Please provide a copy or citation for the specific CEC regulation

referenced in Appendix Y, p. 2-3 of the AFC.

Response: Appendix B (g) (13) (B) "Include a list of the species actually observed and those

with a potential to occur within 1 mile of the Project site and 1,000 feet from the

outer edge of linear facility corridors."

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 345: Please provide a map of the habitat(s) to the north and south of

the Project site up to the 1-mile buffer.

**Response:** A map of all habitat(s) within a 1-mile buffer of the site is not readily available.

TECHNICAL AREA: BIOLOGICAL RESOURCES

### Data Request 346:

Please clarify whether the applicant will monitor the effect of the Project on MFTL habitat. If monitoring will be conducted, please:

- Discuss the specific techniques that will be used to monitor MFTL habitat.
- b. Identify which of the on- and off-site MFTL habitats that were identified in the AFC will be monitored.
- c. Provide the frequency and duration of proposed monitoring.
- d. Provide the criteria that will be used to determine whether the Project is having an adverse effect on MFTL habitat.
- e. Discuss the mitigation that will be implemented if monitoring reveals the Project is having an adverse effect on MFTL habitat.

### Response:

- a. MFTL habitat will be excluded from construction activities on the site with silt fencing.
- b. The MFTL habitats within the boundaries of the Project will be fenced. When there is active construction in the area then a biological monitor will be present.
- A MFTL monitor will be present when construction activities are in the vicinity of MFTL habitat.
- d. The Project will be having an adverse effect on MFTL if they are extirpated from the site.
- e. If the Project is deemed to be having an adverse effect on MFTL or MFTL habitat then consultation with the BLM will determine the best option for mitigation for these impacts. Most likely, offsite mitigation land would be purchased.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 347:

Please discuss how Mr. Thomas determined bighorn sheep habitat suitability within the Project study area.

- a. Indicate and justify the criteria that were used to define habitat suitability.
- b. Indicate the data that were used to determine habitat suitability.
- c. Discuss the field efforts that were used to collect and/or validate data on habitat characteristics.
- d. Provide any data on bighorn sheep occurrence in the Project study area used in delineating suitable habitat, and/or that are available from the BLM, CDFG, USFWS, bighorn sheep conservation societies, local experts, or wildlife researchers.
- e. Please provide a resume or curriculum vitae for Mr. Thomas.

Response:

Mr. Thomas is an expert on the local population of bighorn sheep. The criteria used by Mr. Thomas were not provided to URS or the Applicant.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 348:** Please clarify whether any other individuals or agencies were

consulted for information on bighorn sheep occurrence within

the Project study area.

Response: The BLM, USFWS, and CDFG concur with regards to bighorn sheep data

presented in the AFC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 349: Please provide the bighorn sheep sighting information referenced

in the applicant's response to CURE data request 88.

Response: No bighorn sheep sightings were made within the survey area during surveys.

The "sighting" referenced in the Applicant's response to CURE Data Request 88 is misunderstood and refers to information regarding the vicinity of the Project

site, and not necessarily the Project site itself.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 350: Please discuss the significance of direct, indirect, and

cumulative Project impacts on bighorn sheep.

Response: Direct Project impacts to bighorn sheep involve the removal of 458.3 acres of

suitable habitat. Indirect Project impacts include the potential disturbance to 404.5 acres of suitable habitat in the 1000-foot buffer of the site. Additional indirect impacts to bighorn sheep include avoidance of habitat outside of the fence that the Project may be visible to sheep from. This area is mainly comprised of the foothills facing the Project site. Cumulative impacts are negligible as abundant land is available within the bighorn sheep use area. Additionally, the Project does not impede movement corridors between use

areas.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 351:** Please discuss the applicant's proposed mitigation for Project

impacts to bighorn sheep habitat.

Response: Impacts to bighorn sheep habitat would be mitigated by provision of a new

guzzler facility within the movement corridor between the year-round range and

water range located southeast of the Project site.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 352: Please provide a discussion of the analysis that was used to

estimate Project impacts to wildlife corridors.

Response: A visual analysis based on modeled desert tortoise habitat was used to

determine potential movement corridors, with the focus on maintaining movement between designated critical habitat areas. Two designated desert tortoise critical habitat areas exist, one to the northwest of the site and another to the southwest of the site. Implementation of the Project will not impede

movement between these two areas.

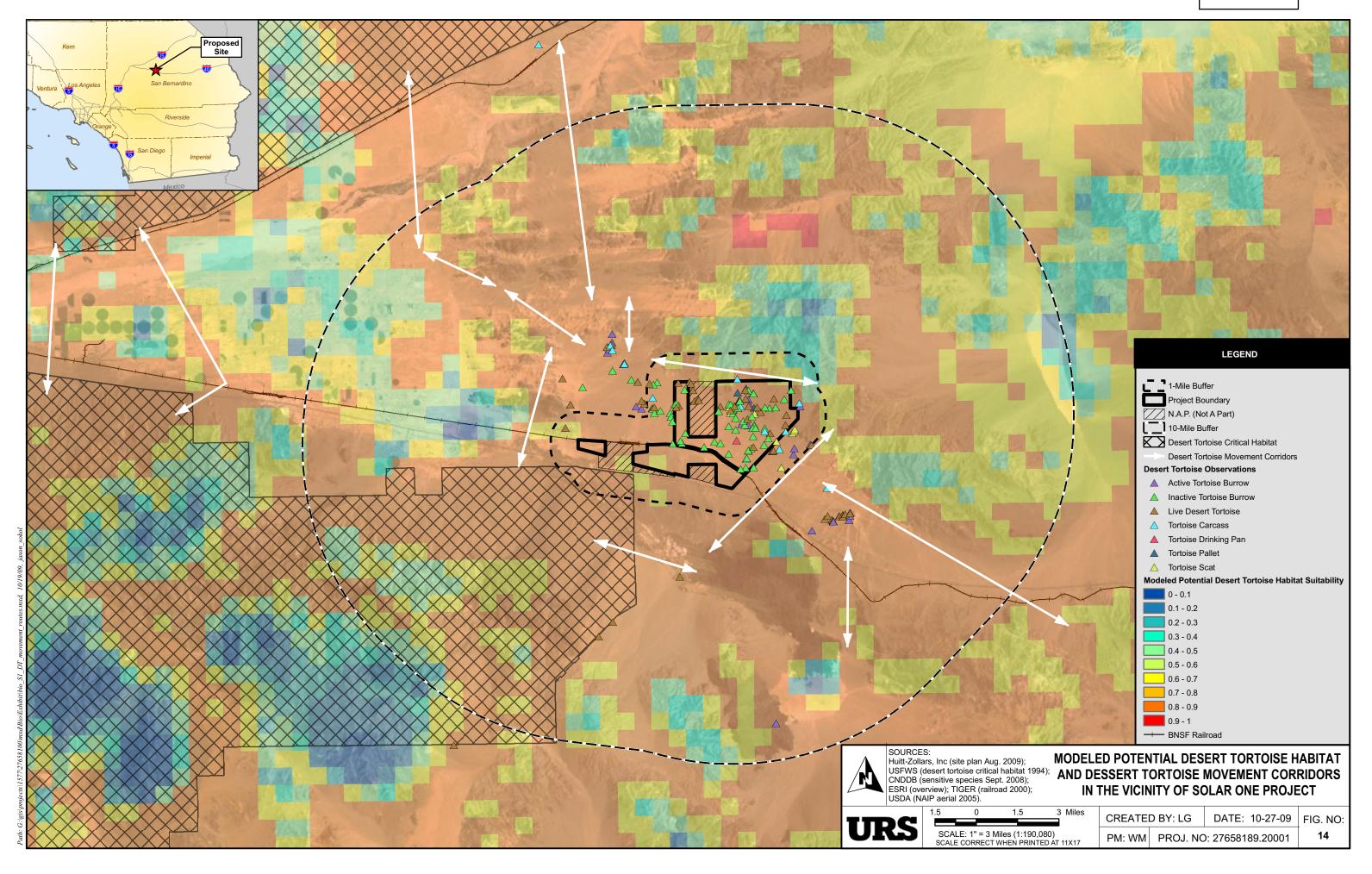
TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 353: Please provide a map that shows the corridors east and north of

the Project site referenced by the applicant.

Response: The requested figure is provided as attachment BIO-3, located behind this

response.



TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 354: Please clarify whether the California horned lark was detected in

the assessment area. If California horned lark were detected, please indicate whether this species exhibited any breeding activity. If they were not detected, please clarify why the AFC indicates the California horned lark is one of the special-status

species detected within the assessment area.

Response: California horned lark was detected on-site. The sensitive subspecies was not

detected on-site and only occurs along the coast. The behavior of the species was not noted. The incorrect subspecies was noted in the AFC. Once this error was identified, it was corrected. The special-status subspecies listed in the AFC does not occur in the desert. This error has since been corrected in revised

documents.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 355: Please quantify the "extensive amount of suitable habitat" that

will remain for special-status bird species within the Project area after the Project is built, and if all projects proposed for the

region are approved.

Response: Approximately one third of the Project site (2,743 acres) will remain intact after

the Project is built. The habitat will remain intact in its native state, which is currently suitable for use. The habitat will occur in approximately 75-foot wide rows of vegetation between every other two rows of SunCatchers and associated access road (totaling approximately 150 feet wide). Information on the number and size of all the projects proposed for the region and subsequently the amount of habitat that would remain is not readily known; therefore, that

information cannot be presented here.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 356:** Please also provide a map of the suitable habitat that remain for

special-status bird species within the Project area after the Project is built, and if all projects proposed for the region are

approved.

Response: Existing maps and descriptions previously provided in the AFC and other

dockets provide such maps, especially those showing Project footprint

development.

Information on the number and size of all the Projects proposed for the region and subsequently the amount of habitat that would remain is not readily known;

therefore, a map of that information cannot be presented here.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 357:** If the applicant is unable to provide the requested information,

please provide a revised impact assessment that does not rely

on unknown information.

**Response:** The requested information has been provided.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 358: Please discuss site-specific environmental factors and line-

related factors influencing the collision risk.

Response: Site specific environmental factors that may influence avian collision risk are

minor. Weather conditions at the Project site are usually expected to be clear, with little to no fog anticipated. Surrounding land use is comprised of open space, minimizing obstacles that may hide any objects with which birds could possible collide with. Human activities that may flush birds include routine maintenance of the SunCatchers, which is anticipated to take place on a rolling basis throughout the entire site, minimizing the potential flushing of any birds that are on-site. Line-related factors are discussed in Section 5.6.8 of the AFC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 359: Please clarify whether the applicant intends to implement any

proactive design measures (i.e., upon completion of construction) at the evaporation ponds to reduce potential for

wildlife mortality.

**Response:** An evaporation pond may or may not be necessary. If necessary, the pond may

also be covered from the outset to eliminate potential for wildlife mortality; however, if evaporation is required over percolation, this covering may not be feasible. There are several debris/infiltration basins throughout the site that will hold water for no longer than 72 hours. These basins will be built to allow wildlife

a means of exit.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 360:** Please indicate the slope of the banks in the Project evaporation

ponds.

Response: An evaporation pond may or may not be necessary. If necessary, the pond may

also be covered or not, from the outset to eliminate potential for wildlife mortality If unnecessary or necessary and covered, then this request is no longer applies. If necessary and uncovered, the slope of banks will be 2:1. The debris/infiltration

basins will also be built in the same manner.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 361: Please indicate whether an evaporation pond monitoring

program will be implemented.

Response: An evaporation pond monitoring program will be implemented if the design plan

indicates that an evaporation pond is necessary and is uncovered.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 362: Please provide a map that shows the precise areas within each

survey grid where each distinct (e.g., special-status plants, desert tortoise, burrowing owl) biological resource survey was

conducted.

Response: AFC Figure 5.6-4 and 5.6-5 show the survey grids where surveys were

conducted. AFC Section 5.6.1.1. details the areas where resource surveys were

conducted within those survey grids.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 363: Please provide a map that clearly depicts the locations of

special-status species occurrences in relation to Project features

(e.g., boundaries).

Response: AFC Figure 5.6-4 shows the locations of special status species occurrences in

relation to Project boundaries.

TECHNICAL AREA: BIOLOGICAL RESOURCES

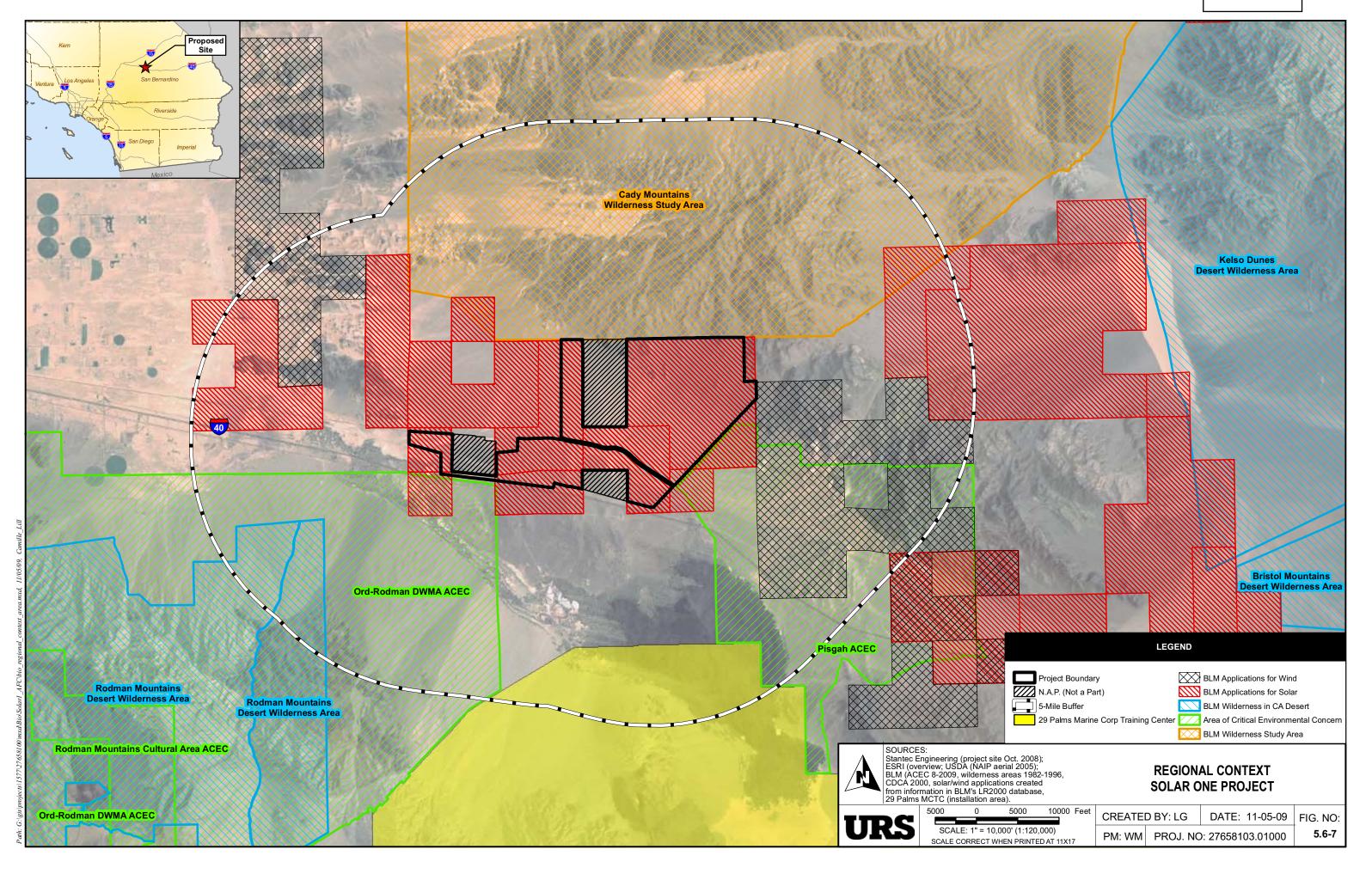
Data Request 364: Please update the map or provide a new map that reflects

changes in Project features (including utility lines) since the AFC

was issued.

Response: The requested map is provided as attachment BIO-4, located behind this

response.



TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 365: Please discuss the status of the applicant's attempts to identify

off-site habitat mitigation, and if available, the location(s) of the

proposed mitigation lands.

**Response:** There have been no changes in the status since CURE's previous data request.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 366: Please provide a discussion of compliance and monitoring

programs for desert tortoise relocation, and for Project impacts to burrowing owl, Mojave fringe-toed lizard, wildlife movement,

special-status plants, and avian collision hazards.

Response: A desert tortoise relocation plan that will comply with federal agency

requirements is being produced. Surveys for burrowing owls will be preconstruction, no impacts are known at this time. Project impacts on special

status species are discussed in AFC Section 5.6.4.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 367: Please provide copies of any written correspondence between

the applicant and state and federal resources agencies regarding the need for federal or state permits. For verbal correspondence, please provide the name of the individual

contacted and the results of the conversation.

Response: The Applicant does not have written correspondence regarding the need for

federal or state permits. The Applicant has discussed the need for a Streambed Alteration Agreement (SAA) with Becky Jones of the California Department of Fish and Game. It was determined that an SAA should be applied for. This was discussed with CURE during the September 16, 2009 Workshop. Additionally, the Applicant has discusses that no Section 404 permit is required with Jim Mace of the U.S Army Corps of Engineers (USACE). The USACE has determined that no waters of the U.S. occur onsite; therefore, no Section 404

permit is required.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 368: Please discuss any attempts that will be made to revegetate

areas temporarily impacted by ground disturbance during the construction phase, and on the Project site once the Project is

decommissioned.

Response: Areas temporarily disturbed by ground disturbance will be left to naturally

regenerate during Project operations. A revegetation plan for the Project site

after decommissioning has not been prepared.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 369: Please indicate how coyotes, foxes, and any other target

predator species will be managed within the site, and clarify how these predators will be excluded from the site while still allowing

other wildlife to move through the site.

Response: The Project site will be fenced with tortoise exclusion fencing and security

fencing, likely preventing the large wildlife species mentioned above from entering the Project site. Only smaller wildlife and bird species will be able to use

the site after construction.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 370: Please define what the applicant considers "significant" raven

predation and discuss how the applicant will determine whether significant raven predation of the desert tortoise and Mojave fringe-toed lizard is occurring. In your response, provide the

criteria by which significance will be determined.

Response: Raven management is discussed in the Raven Management Plan submitted to

CEC and BLM on July 17, 2009 as the Applicant's response to CEC and BLM Data Request 55. Observed predation of desert tortoise and/or Mojave fringe-toed lizard would be considered significant and require immediate remedial actions. The goal of the raven management plan is to control raven numbers on-

site to deter predation.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 371: If the applicant has developed an unbiased mechanism for

determining whether adaptive management is necessary, please

describe the mechanism.

**Response:** Adaptive management will be initiated if predation is detected.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 372: Please discuss how baseline (i.e., pre-Project) data on raven

abundance, distribution, nest site locations, and behavior will be obtained. If these data have already been collected, please

provide them along with the methods that were used.

Response: This information is outlined in the Raven Management Plan for Solar One,

submitted to CEC and BLM on July 17, 2009 as the Applicant's response to CEC and BLM Data Request 55. Briefly, abundance and behavior surveys will be conducted to determine presence and distribution. If ravens are present, nest surveys will be conducted from March to June to check prey remains for desert tortoise and/or MFTL remains. Please refer to the Raven Management Plan for

complete methods. The baseline information has not yet been collected.

TECHNICAL AREA: BIOLOGICAL RESOURCES

**Data Request 373:** Please provide the specific criteria that will be used to determine

that the Plan has been successful and surveys and reporting

can be discontinued.

Response: This information is outlined in the Raven Management Plan for Solar One,

submitted to CEC and BLM on July 17, 2009 as the Applicant's response to CEC and BLM Data Request 55.. The raven monitoring program will be deemed successful if results show that raven populations are not establishing or increasing in numbers because of the program. The site maintenance; waste and water management; identification of problem ravens, roost, and nest sites; and the reporting of desert tortoise predation aspects of the management plan

will need to be continued for the life of the solar facility.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 374: Please discuss how ravens will be prevented from accessing

water in Project debris basins.

Response: Project-wide efforts will be made to reduce human-created resources that may

potentially attract ravens to the site. Debris basins will not be specially modified to prevent access by ravens or other wildlife. The basins on-site will be designed to hold run-off water for no more than two to three days. These basins will be dry

the majority of the time.

TECHNICAL AREA: BIOLOGICAL RESOURCES

#### Data Request 375:

Please clarify whether the following features (or actions) are considered part of the SES Solar One Project:

- Expansion of the Pisgah Substation
- Upgrades to the Eldorado and Lugo substations
- Upgrades to the Lugo-Pisgah No. 2 transmission line
- Installation of 12 to 15 transmission line structures to connect the Solar One Substation to the SCE Pisgah Substation

If any of these features (or actions) are considered part of the Project, please:

- a. provide a discussion of the associated baseline biological resource conditions;
- discuss the surveys that were conducted to document baseline conditions;
- c. quantify the amount of ground disturbance that will occur;
- d. provide an analysis of potential direct and indirect impacts to sensitive biological resources; and,
- e. discuss the measures that will be implemented for impact avoidance and mitigation.

#### Response:

With the exception of the installation of the 12 to 15 transmission line structures to connect the Solar One Substation to the SCE Pisgah Substation, these features are not a part of the Project. Information for the transmission line structures to connect the Solar One Substation to the SCE Pisgah Substation is provided in Section 5.6 and Appendix Y of the AFC. Further, all subsequent filings of biological resource materials include analysis of this transmission line.

Additionally, the Applicant submitted an overall assessment of the environmental impacts associated with the transmission upgrade in Appendix EE of the AFC. Preparing the final design and obtaining the final permits for the transmission system upgrades are the responsibility of SCE. A detailed assessment of the environmental impacts and requirements for mitigation associated with the transmission time upgrade is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 376: Please clarify whether the transmission line that will be installed

outside of the Project Site (to connect the Solar One Substation to the SCE Pisgah Substation) will be 500-feet long as indicated in AFC Section 5.6, or 0.14 mile (739 feet) long as indicated in

AFC Section 3.0.

**Response:** 739 feet is the correct length.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 377: Please comment on whether the applicant still anticipates

modeling tortoise mitigation efforts on the relocation model

developed in the Fort Irwin project?

**Response:** The Applicant will no longer use the Fort Irwin tortoise relocation plan as a model

for their desert tortoise relocation plan as requested by the BLM and wildlife

agencies.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 378: Please provide the status of the tortoise relocation plan and

indicate whether any fundamental parts of the plan have changed since the AFC was released.

Response: The desert tortoise relocation plan has not been completed as of yet, but is being

prepared. No fundamental portions of the plan have changed since the AFC was released. The plan will follow the requirements set forth by the BLM and wildlife

agencies with which the Applicant is fully coordinating efforts with.

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TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 379: Please discuss how the applicant will avoid direct take (e.g.,

crushing under vehicles) of tortoises and other wildlife that may be attracted to mirror wash water or the artificially abundant

vegetation, particularly at night when visibility is low.

Response: Desert tortoise will be fully excluded from the Project site once site disturbance

begins. As such, take of desert tortoise will not occur during washing of the SunCatchers. Other wildlife that may be in the area, such as small rodents or lizards are naturally wary of vehicles and mobile enough to evade them. Some animals might be crushed, but the vast majority are likely to simply move out of the area until the disturbance has left. Washing will use very small amounts of water such that little or no attraction to wildlife will occur, thus further avoiding

such potential impacts.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 380: Please provide the underlying data used to support the

assumptions that most mirror wash water will evaporate before reaching the ground, and that if it reaches the ground it will

evaporate quickly (despite compacted soil conditions).

Response:

Each SunCatcher dish is 38 feet in diameter. Adjusting for the gap in the dish for the Stirling engine and support, each dish has approximately 1,020 square feet of surface mirrors. Applying 14 gallons of cleaning water over this surface is equivalent to approximately 0.02 inches of water (which would be similar to a 0.02-inch rainfall, but only over the surface of a single dish). This is a very small amount of water, and this level of application will only occur approximately twice a year. Evaporation from the mirror surface will depend to some extent on the temperature of the mirror surface at the time of application, and rates of evaporation will vary with ambient air conditions. However, this amount of water would barely wet the ground surface, even if it all reached the ground. This amount of water, if applied to the ground in permeable soils, could moisten sandy soil particles, which would further increase the surface area available for evaporation, but it would unlikely be readily available to vascular plants or wildlife at these levels and frequencies of application.



### BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF

**CALIFORNIA** 

1516 NINTH STREET, SACRAMENTO, CA 95814 1-800-822-6228 – www.energy.ca.gov

### APPLICATION FOR CERTIFICATION For the SES SOLAR ONE PROJECT

Docket No. 08-AFC-13

#### PROOF OF SERVICE

(Revised 11/5/09)

#### **APPLICANT**

Felicia Bellows, Vice President of Development Tessera Solar 4800 North Scottsdale Road, Ste. 5500 Scottsdale, AZ 85251 Hfelicia.bellows@tesserasolar.com

Camille Champion
Project Manager
Tessera Solar
4800 North Scottsdale Road,
Suite 5500
Scottsdale, AZ 85251
Hcamille.champion@tesserasolar.co
m

#### CONSULTANT

Bill Magdych
AFC Project Manager
URS Corporation
1615 Murray Canyon Rd.,
Ste. 1000
San Diego, CA 92108
bill magdych@urscorp.com.

#### **APPLICANT'S COUNSEL**

Allan J. Thompson Attorney at Law 21 C Orinda Way #314 Orinda, CA 94563 allanori@comcast.net

#### INTERESTED AGENCIES

California ISO \_e-recipient@caiso.com\_ Jim Stobaugh
BLM – Nevada State Office
P.O. Box 12000
Reno, NV 89520
<u>jim\_stobaugh@blm.gov</u>

Rich Rotte, Project Manager Bureau of Land Management Barstow Field Office 2601 Barstow Road Barstow, CA 92311 Richard\_Rotte@blm.gov.

Becky Jones
California Department of
Fish & Game
36431 41st Street East
Palmdale, CA 93552
\_dfgpalm@adelphia.net

#### **INTERVENORS**

California Unions for Reliable
Energy (CURE)
Loulena A. Miles,
Marc D. Joseph
Adams Broadwell Joseph &
Cardozo
601 Gateway Boulevard,
Ste. 1000
South San Francisco, CA 94080
Imiles@adamsbroadwell.com

\*Defenders of Wildlife Joshua Basofin 1303 J Street, Suite 270 Sacramento, California 95814 jbasofin@defenders.org

Basin and Range Watch Laura Cunningham Kevin Emmerich P.O. Box 70 Beatty, NV 89003 atomictoadranch@netzero.net

Patrick C. Jackson 600 N. Darwood Avenue San Dimas, CA 91773 e-mail service preferred ochsjack@earthlink.net

#### **ENERGY COMMISSION**

JAMES D. BOYD
Vice Chair and Presiding Member
jboyd@energy.state.ca.us.

JEFFREY D. BYRON Commissioner and Associate Member <u>jbyron@energy.state.ca.us</u>.

Paul Kramer Hearing Officer .pkramer@energy.state.ca.us.

Caryn Holmes Staff Counsels .cholmes@energy.state.ca.us.

Christopher Meyer
Project Manager
.cmeyer@energy.state.ca.us.

Public Adviser

#### **DECLARATION OF SERVICE**

I, Corinne Lytle, declare that on November 13, 2009, I served and filed copies of the attached, Applicant's Responses to CURE Data RequesrSet 3. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [www.energy.ca.gov/sitingcases/solarone].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list)

and to the Comm	ission's Docket Unit, in the following manner:
(Check all that Apply)	
	FOR SERVICE TO ALL OTHER PARTIES:
sent ele	ctronically to all email addresses on the Proof of Service list;
postage	onal delivery or by depositing in the United States mail at Sacramento, California with first-class thereon fully prepaid and addressed as provided on the Proof of Service list above to those es <b>NOT</b> marked "email preferred."
AND	
	FOR FILING WITH THE ENERGY COMMISSION:
	an original paper copy and one electronic copy, mailed and emailed respectively, to the address preferred method);
OR deposition	ng in the mail an original and 12 paper copies, as follows:
	CALIFORNIA ENERGY COMMISSION Attn: Docket No. 08-AFC-13 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512 docket@energy.state.ca.us
I declare under p	enalty of perjury that the foregoing is true and correct.
	Original Signed By
	Corinne Lytle