DOCKET

09-AFC-7

DATE

JUN 15 2010

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June 15, 2010

Alan Solomon **Project Manager** California Energy Commission 1516 Ninth Street Sacramento, CA 95814

RE: Palen Solar Power Project, Docket No. 09-AFC-7

Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations Technical Area: Biological Resources

Dear Mr. Solomon:

Attached please find the Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for the Palen Solar Power Project.

If you have any questions on this submittal, please feel free to contact me directly.

Sincerely,

Alice Harron

Senior Director, Development



AECOM 1420 Kettner Boulevard Suite 500 San Diego, CA 92101 www.aecom.com 619.233.1454 tel 619.233.0952 fax

May 27, 2010

Ms. Susan Sanders California Energy Commission 1516 Ninth Street Sacramento, California 95814

Subject: Palen Solar Power Project (09-AFC-7) – Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for Biological Resources

Dear Ms. Sanders:

On behalf of Palen Solar I, LLC, AECOM is submitting preliminary results of biological surveys conducted in spring 2010 for desert tortoise (*Gopherus agassizii*; DT), rare plants, jurisdictional waters, and incidental wildlife occurrences for the Palen Solar Power Project. This information was requested at the Palen and Blythe Staff Workshops conducted on April 28 and 29, 2010.

Preliminary survey results for DT, rare plants and jurisdictional waters were submitted to the CEC on May 7, 2010. The results provided herein supersede the results provided on May 7, 2010. The preliminary survey results are presented in figures and tables attached. Table 1 and Figure 1 present a summary of observations of DT sign and DT occurrences noted during spring 2010 surveys. Table 2 and Figure 2 present the rare plant population counts observed during spring 2010 surveys. Figure 3 presents the results of a formal jurisdictional delineation of waters of the State. Table 3 and Figure 4 present incidental wildlife occurrences observed during protocol surveys for DT, rare plants, western burrowing owl, and jurisdictional waters. Results from the fall and spring 2009 surveys are not included in the tables and figures for DT, rare plants or incidental wildlife occurrences. However, the jurisdictional waters figure does include results from the 2009 surveys and a table presenting the results of both survey years is provided in the figure. Please note that the results provided in Tables 1 through 3 and Figures 1, 2 and 4 are simply the results of our observations within the 100 percent coverage study area and associated buffers. These tables and figures do not represent total impacts within disturbance areas because we surveyed wider corridor widths and additional areas for contingency in the engineering design that ultimately will not be disturbed.

Figure 5 presents the additional disturbance areas surveyed in 2010 for an access road, transmission line corridor, and additional project components that are outside the 2009 project footprint. Therefore, the total Project Disturbance Area has been revised to be 4,051.1 acres. This total is still preliminary and subject to further refinement in the engineering design. A revised total disturbance area will be provided in final technical reports to be submitted to the CEC in early June.

Figure 6 present preliminary direct impacts to all cover types, including state waters, resulting from the revised Project Disturbance Area. These impact calculations are still preliminary and subject to further refinement in the engineering design. Revised impact calculations will be provided in final technical reports to be submitted to the CEC in early June.

Please let us know if you have any questions.



Sincerely,

Mr. Bill Graham Principal

Enclosure: Table 1. Palen Solar Power Project Desert Tortoise Observations Spring 2010

Table 2. Palen Solar Power Project Rare Plant Population Counts Spring 2010

Table 3. Palen Solar Power Project Incidental Wildlife Occurrences Figure 1. Preliminary Results Desert Tortoise Spring 2010 Surveys Figure 2. Preliminary Results Botany Rare Plants Spring 2010 Surveys

Figure 3. Preliminary Results State Waters Spring 2010 Surveys

Figure 4. Preliminary Results Incidental Wildlife Occurrences Spring 2010 Surveys

Figure 5. Preliminary Disturbance Areas May 2010 Figure 6. Preliminary Impacts to Cover Types May 2010

CD. Raw Data Files in Excel and Shapefiles

cc. Alice Harron, Solar Millennium

Elizabeth Ingram, Solar Millennium Scott Galati, Solar Millennium Counsel

Mark Luttrell, AECOM

Palen Spring 2010 Preliminary Bio Survey Results Letter to CEC



Table 1. Palen Solar Power Project Desert Tortoise Observations Spring 2010

Description	Proposed Project Study Area	Reconfigured Alternative Project Study Area	Proposed Project/Reconfigured Alternative Study Area ¹	Buffer	Incidental Observations Outside Buffer Area	Grand Total
Adult Tortoise	1			3	3	7
Active Tortoise Burrow or Pallet - Class 1				2		2
Tortoise Burrow or Pallet - Class 3 (deteriorated, definitely tortoise)	1			2		3
Possible Tortoise Burrow or Pallet (Class 4 or 5)		1		6		7
Tortoise Scat	5			10	3	18
Tortoise Bone Fragment - Mineralized	2	5		5	1	13
Tortoise Bone Fragment - Not Mineralized	3	37	1	26	1	68
Tortoise Carcass (shell bone falling apart; growth rings on scutes are peeling)				1		1
Tortoise Tracks				2	1	3

¹This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.



Table 2. Palen Solar Power Project Rare Plant Population Counts Spring 2010

Species	Proposed Project Study Area	Reconfigured Alternative Project Study Area	Proposed Project/Reconfigured Alternative Study Area ²	Buffer	Incidental Observations Outside Buffer Area	Grand Total
Four wing saltbush				920		920
Cottontop cactus	1					1
Harwood's milkvetch				152		152
Harwood's wollystar		1		37		38
Ribbed cryptantha	6,750	337	30	68,859		75,976
Utah milkvine					11	11

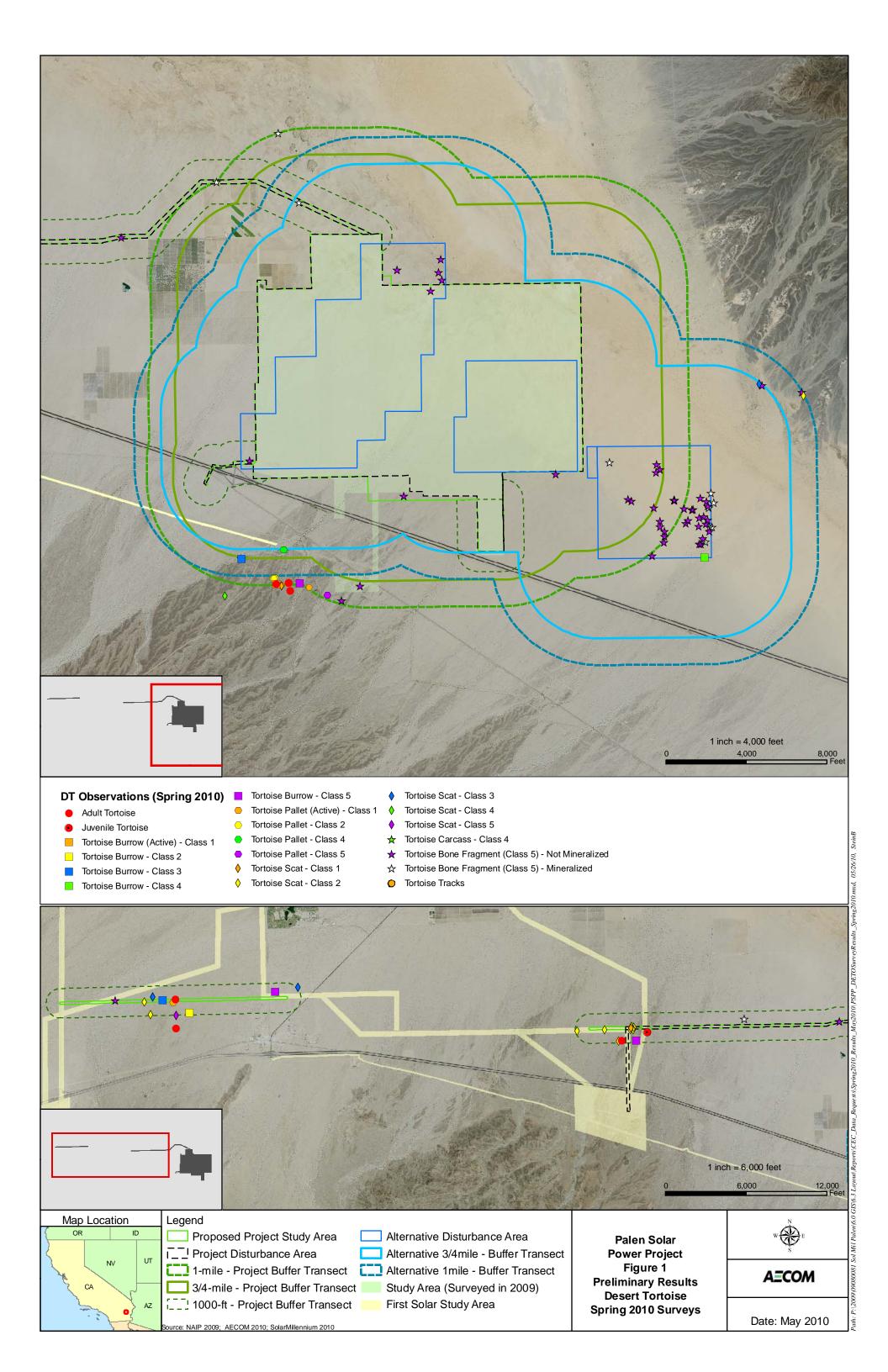
¹ Note that each point on the figure may represent multiple individuals
²This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.

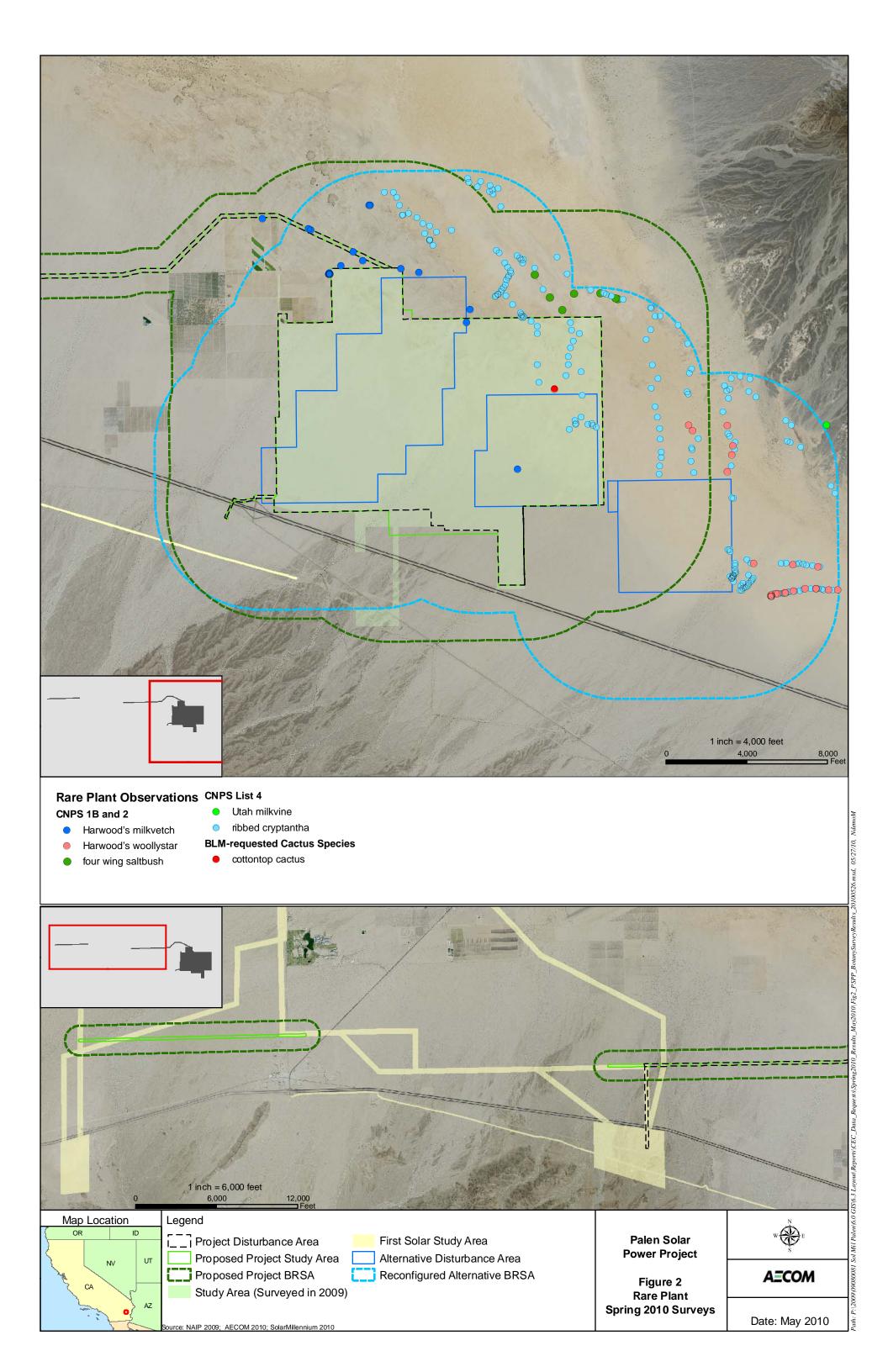


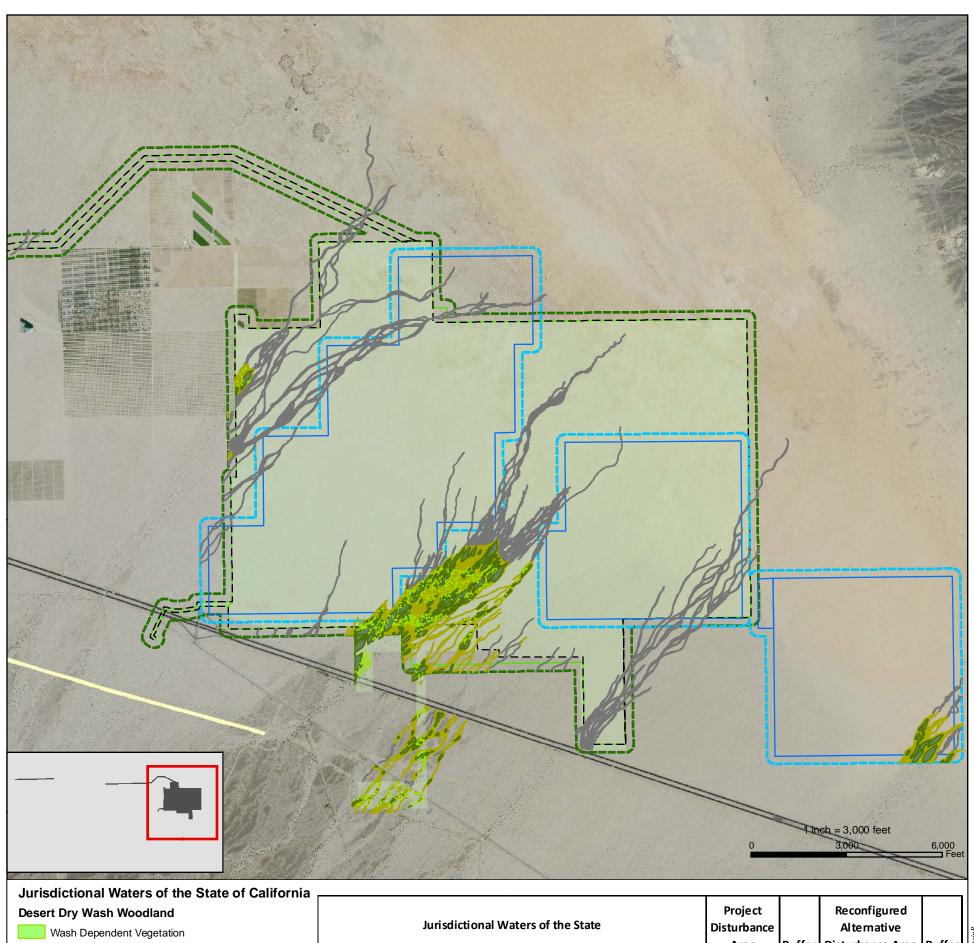
Table 3. Palen Solar Power Project Incidental Wildlife Occurrences

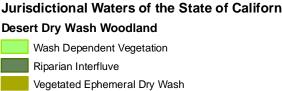
Species	Proposed Project Study Area	Reconfigured Alternative Project Study Area	Proposed Project/Reconfigured Alternative Study Area ¹	Buffer	Incidental Observations Outside Buffer Area	Grand Total
American Badger Den or Burrow	1	25	1	2	2	31
Ferruginous Hawk				1		1
Kit Fox Burrow or Complex	2	7		4	2	15
Loggerhead Shrike	2	1		3	3	9
Mojave Fringe-toed Lizard	5	310		62	11	388
Unidentified Woodpecker Species – Nest Cavity				1		
Northern Harrier		2		3		5
Swainson's Hawk	1	1		1		3

¹This encompasses the areas where the Proposed Project Study Area and Reconfigured Alternative Study Area overlap.







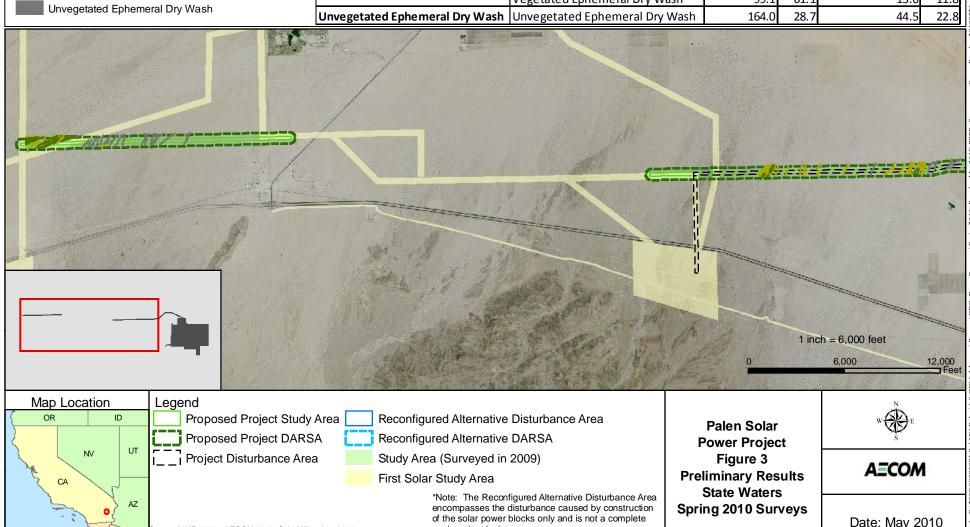


rce: NAIP 2009; AECOM 2010; SolarMillennium 2010

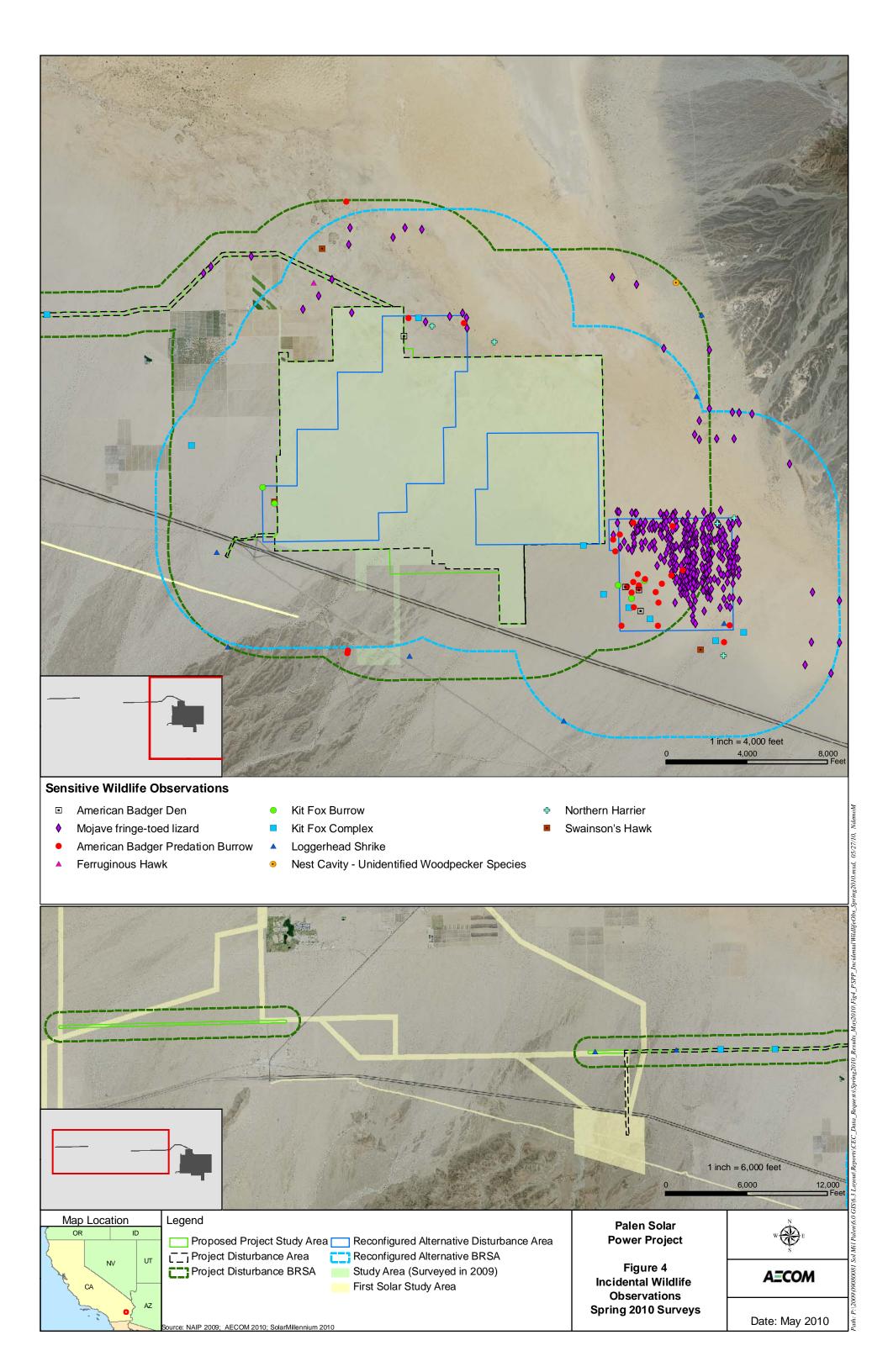
Other Waters

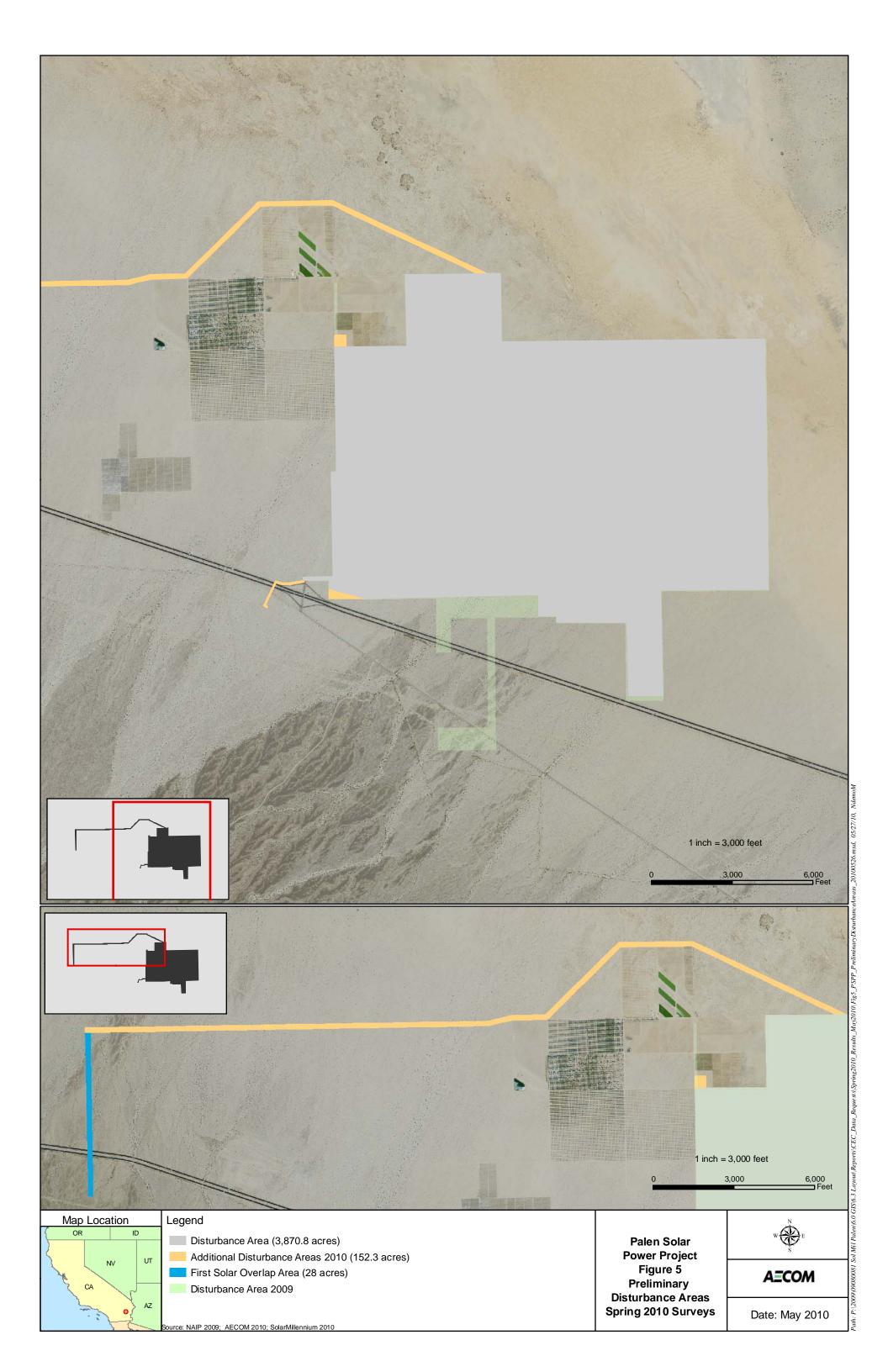
Jurisdictional Wa	Project Disturbance		Reconfigured Alternative		ıB	
		Area Buffer Disturbance Area Bu			Buffer	SteinB
Desert Dry Wash Woodland	Wash Dependent Vegetation	1.3	0.2	0.01	0.1	96/10
	Riparian Interfluve	43.6	23.5	6.8	5.3	05/2
	Vegetated Ephemeral Dry Wash	99.1	61.1	13.6	11.8	.mxd
Unvegetated Ephemeral Dry Wash	Unvegetated Ephemeral Dry Wash	164.0	28.7	44.5	22.8	20526

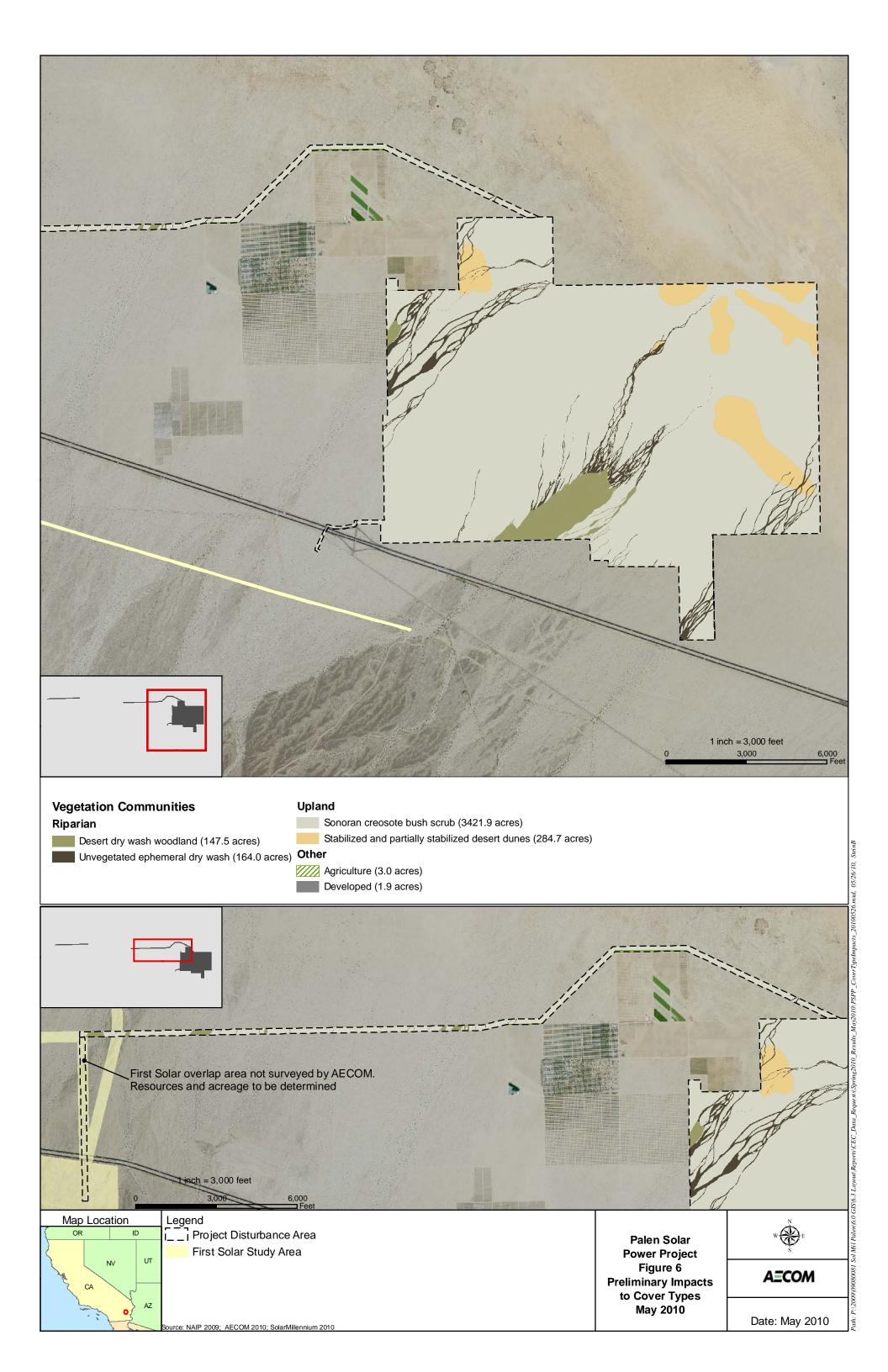
Date: May 2010



engineering design.







STATE OF CALIFORNIA ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of: APPLICATION FOR CERTIFICATION for the PALEN SOLAR POWER PROJECT

Docket No. 09-AFC-7 PROOF OF SERVICE

(Revised 5/14/2010)

<u>APPLICANT</u>

Alice Harron Senior Director of Project Development 1625 Shattuck Avenue, Suite 270 Berkeley, CA 94709-1161 harron@solarmillenium.com

Elizabeth Ingram, Associate Developer Solar Millennium LLC 1625 Shattuck Avenue, Suite 270 Berkeley, CA 94709 berg@solarmillennium.com

Ram Ambatipudi Chevron Energy Solutions 150 E. Colorado Blvd., Ste. 360 Pasadena. CA 91105

APPLICANT'S CONSULTANT

Arrie Bachrach AECOM Project Manager 1220 Avenida Acaso Camarillo, CA 93012 arrie.bachrach@aecom.com

COUNSEL FOR APPLICANT

Scott Galati, Esq. Galati/Blek, LLP 455 Capitol Mall, Suite 350 Sacramento, CA 95814 sgalati@gb-llp.com Peter Weiner Matthew Sanders Paul, Hastings, Janofsky & Walker LLP 55 2nd Street, Suite 2400-3441 San Francisco, CA 94105 peterweiner@paulhastings.com matthewsanders@paulhastings.com

INTERESTED AGENCIES

Holly L. Roberts, Project Manager Bureau of Land Management
Palm Springs-South Coast Field Office
1201 Bird Center Drive Palm Springs, CA
92262
CAPSSolarPalen@blm.gov

California ISO e-recipient@caiso.com

INTERVENORS

(CURE)
Tanya A. Gulesserian,
Marc D. Joseph
Jason W. Holder
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com
iholder@adamsbroadwell.com

California Unions for Reliable Energy

Michael E. Boyd, President Californians for Renewable Energy, Inc. 5439 Soquel Drive Soquel, CA 95073-2659 michaelboyd@sbcglobal.net Alfredo Figueroa Californians for Renewable Energy, Inc. 424 North Carlton Blythe, CA 92225 lacunadeaztlan@aol.com

Basin and Range Watch Kevin Emmerich/Laura Cunningham P.O. Box 153 Baker, CA 92309 atomictoadranch@netzero.net

ENERGY COMMISSION

Robert Weisenmiller Commissioner and Presiding Member rweisenm@energy.state.ca.us

Karen Douglas Chair and Associate Member kldougla@energy.state.ca.us

Raoul Renaud Hearing Officer rrenaud@energy.state.ca.us

Alan Solomon Project Manager asolomon@energy.state.ca.us

Lisa DeCarlo Staff Counsel Idecarlo@energy.state.ca.us

Jennifer Jennings
Public Adviser's Office
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Carl Lindner, declare that on, June 15, 2010, I served and filed copies of the attached Preliminary Spring 2010 Survey Results Corrected and Preliminary Impact Calculations for Biological Resources, dated May 27, 2010.

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:

[http://www.energy.ca.gov/sitingcases/solar_millennium_palen].

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

For Service to all other parties:
X sent electronically to all email addresses on the Proof of Service list;
by personal delivery or by overnight delivery service or depositing in the United States mail at <u>Camarillo</u> , <u>California</u> with postage or fees thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses NOT marked "email preferred."
AND
For filing with the Energy Commission:
X sending an original paper copy and one electronic copy, mailed respectively, to the address below (preferred method);
OR .
depositing in the mail an original and 12 paper copies, along with 13 CDs, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 09-AFC-7 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Paul E. Lindner