California Energy Commission
DOCKETED
08-AFC-8A
TN # 68500
NOV 13 2012

OEHI Response to CEC Data Request A60

Amended Application for Certification
for
HYDROGEN ENERGY CALIFORNIA
(08-AFC-8A)
Kern County, California

November 2012

Technical Area: Biological Resources
Author: Amy Golden

CARBON DIOXIDE PIPELINE ROUTE AND OEHI PROJECT

BACKGROUND

Staff will need to assess the impacts to species and sensitive habitat associated with the Occidental of Elk Hills, Inc (OEHI) project on Elk Hills since it is a connected action with the HECA project. Appendix A, OEHI Environmental Documents, identifies 13 satellites as broad Enhanced Oil Recovery (EOR) development areas; however, Appendix A does not address specific impacts of the carbon dioxide route or results from 2010 or 2011 botanical surveys, as the Amended AFC indicates. Staff needs to be able to determine the project's impacts to special-status plants and wildlife that occur on Elk Hills in the region of the carbon dioxide route and all EOR activities.

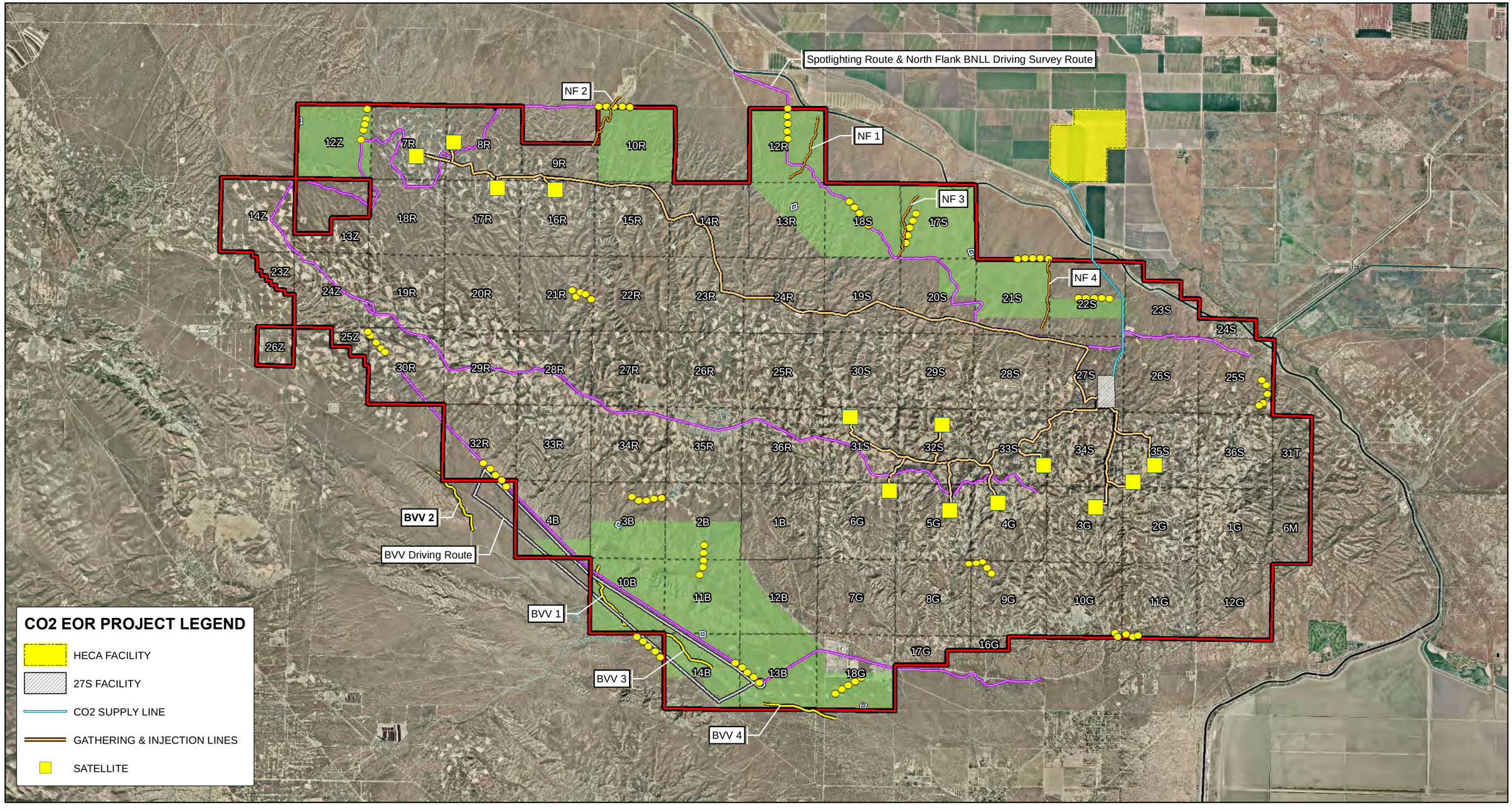
DATA REQUESTS

A60. Please provide an aerial exhibit(s) at an appropriate scale (e.g. 1 inch: 7,000 feet) showing plant and wildlife species GPS data collected during previous monitoring years. On the exhibit, please also show a conceptual drawing overlay (such as AutoCAD) of the 13 satellites shown in Appendix A.

The attached Figures 1-7 show the conceptual overlay of the OEHI CO2 EOR Project. Figures 1-6 show wildlife species monitoring data collected during previous monitoring years 2007-2011, and Figure 7 shows floristic survey results 1995-2001.

OCCIDENTAL OF ELK HILLS, INC.

ELK HILLS CONSERVATION AREA MONITORING ROUTES & CO2 EOR PROJECT AREA



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Miles
1:80,000

ELK HILLS OIL FIELD BOUNDARY
ELK HILLS EXISTING CONSERVATION AREA
SMALL MAMMAL TRAPPING GRIDS
SPOTLIGHTING ROUTES
NORTH FLANK BNLL DRIVING SURVEY ROUTE
NORTH FLANK (NF) BNLL WALKING SURVEY ROUTES
BUENA VISTA VALLEY BNLL DRIVING SURVEY ROUTE
BUENA VISTA VALLEY (BVV) BNLL WALKING SURVEY ROUTES
SJKF SCENT STATION

FIGURE 1

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

CONSERVATION AREA MONITORING OBSERVATIONS - 2007

Spotlighting Route & North Flank BNLL Driving Survey Route

Gathering & Injection Lines

BVV Driving Survey Route

CO2 EOR PROJECT LEGEND

- HECA FACILITY
- 27S FACILITY
- CO2 SUPPLY LINE
- GATHERING & INJECTION LINES
- SATELLITE

NOTE: Conservation Area monitoring activities include routes/ areas that occur outside of the Elk Hills Oil Field Boundary and outside of the Elk Hills Existing Conservation Area.

0 0.7 1.4
Miles
1:80,000

- ELK HILLS OIL FIELD BOUNDARY
- ELK HILLS EXISTING CONSERVATION AREA
- SMALL MAMMAL TRAPPING GRIDS
- SPOTLIGHTING ROUTES
- NORTH FLANK BNLL DRIVING SURVEY ROUTE
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- BUENA VISTA VALLEY (BVV) BNLL DRIVING SURVEY ROUTE
- BUENA VISTA VALLEY BNLL WALKING SURVEY ROUTES

2007 CONSERVATION AREA MONITORING DATA

- BNLL UNKNOWN
- GKR PRECINCT
- SJKF SCENT STATION
- SJKF NATAL DEN

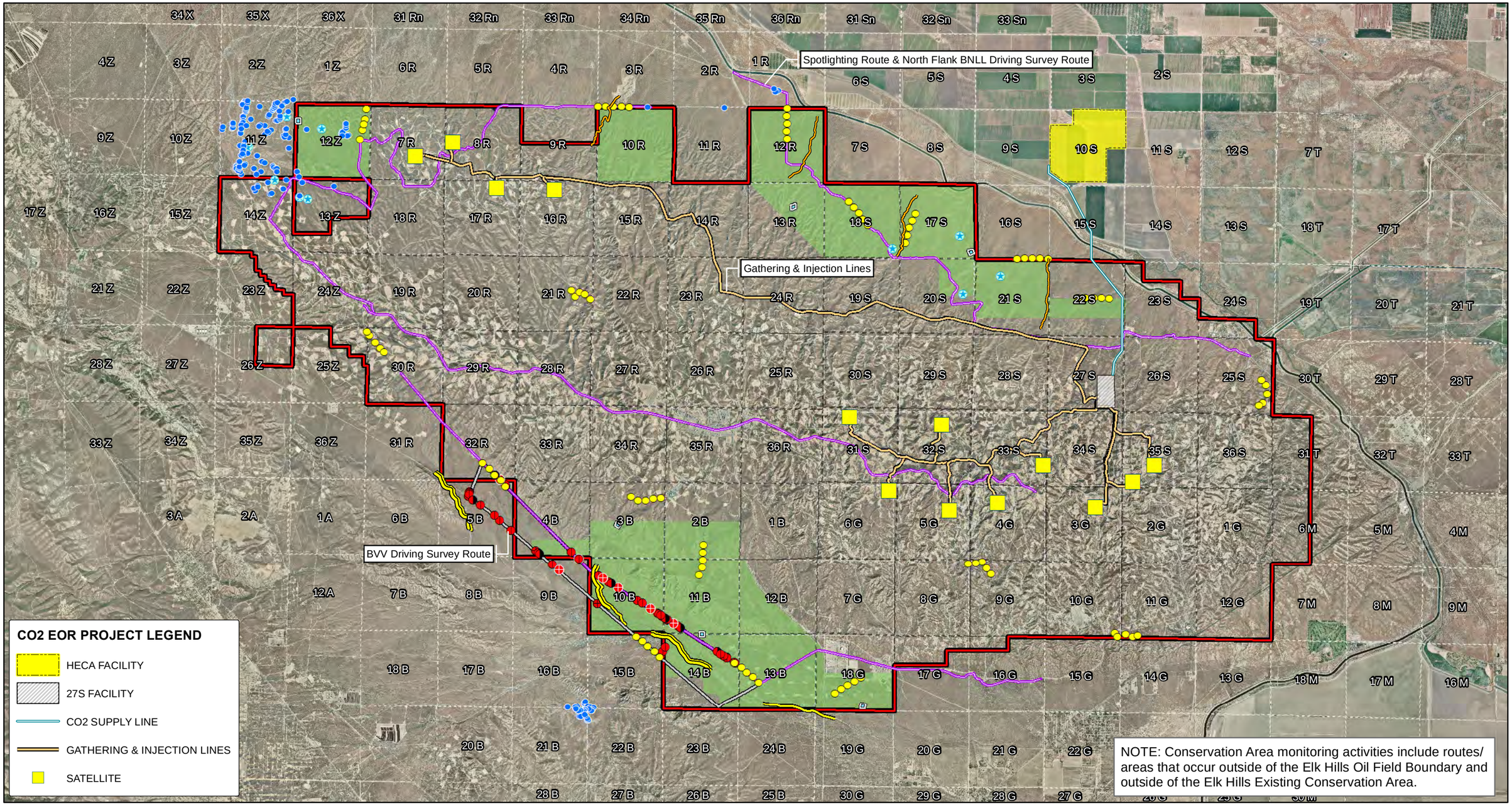
Figure 2

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

CONSERVATION AREA MONITORING OBSERVATIONS - 2008



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BUENA VISTA VALLEY BNLL WALKING SURVEY ROUTES

2008 CONSERVATION AREA MONITORING DATA

BNLL FEMALE
BNLL MALE
BNLL UNKNOWN
GKR PRECINCT
SJKF SCENT STATION
SJKF NATAL DEN

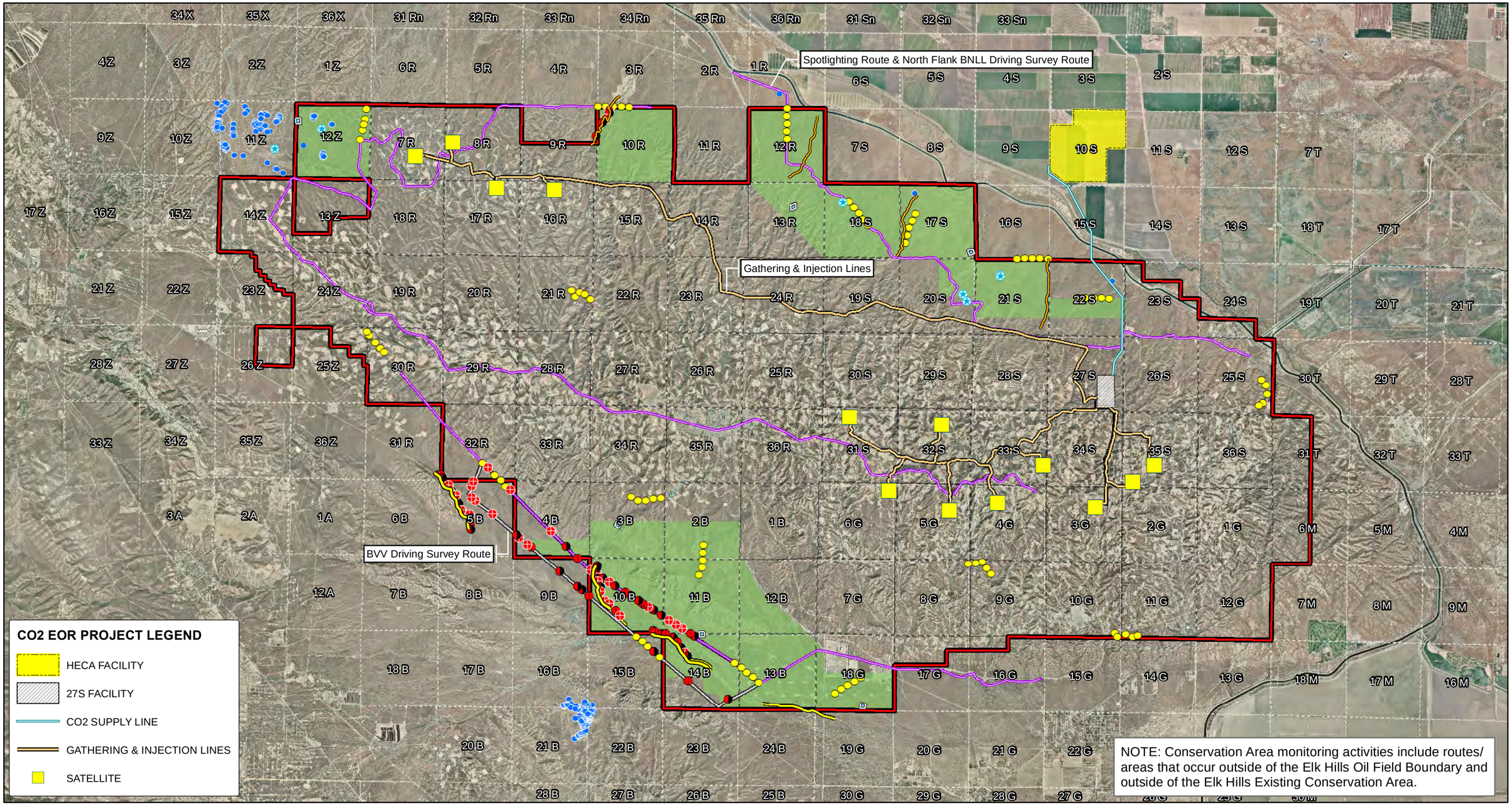
Figure 3

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

CONSERVATION AREA MONITORING OBSERVATIONS - 2009



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ELK HILLS EXISTING CONSERVATION AREA
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BUENA VISTA VALLEY BNLL WALKING SURVEY ROUTES

2009 CONSERVATION AREA MONITORING DATA

BNLL FEMALE
BNLL MALE
BNLL UNKNOWN
GKR PRECINCT
SJKF SCENT STATION
SJKF NATAL DEN

Figure 4

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

CONSERVATION AREA MONITORING OBSERVATIONS - 2010

Spotlighting Route & North Flank BNLL Driving Survey Route

Gathering & Injection Lines

BVV Driving Survey Route

CO2 EOR PROJECT LEGEND

- HECA FACILITY
- 27S FACILITY
- CO2 SUPPLY LINE
- GATHERING & INJECTION LINES
- SATELLITE

NOTE: Conservation Area monitoring activities include routes/ areas that occur outside of the Elk Hills Oil Field Boundary and outside of the Elk Hills Existing Conservation Area.

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Miles
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- BUENA VISTA VALLEY (BVV) BNLL DRIVING SURVEY ROUTE
- BUENA VISTA VALLEY BNLL WALKING SURVEY ROUTES

2010 CONSERVATION AREA MONITORING DATA

- BNLL FEMALE
- BNLL MALE
- BNLL UNKNOWN
- GKR PRECINCT
- SJKF SCENT STATION
- SJKF NATAL DEN

Figure 5

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

CONSERVATION AREA MONITORING OBSERVATIONS - 2011

Spotlighting Route & North Flank BNLL Driving Survey Route

Gathering & Injection Lines

BVV Driving Survey Route

CO2 EOR PROJECT LEGEND

- HECA FACILITY
- 27S FACILITY
- CO2 SUPPLY LINE
- GATHERING & INJECTION LINES
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NOTE: Conservation Area monitoring activities include routes/ areas that occur outside of the Elk Hills Oil Field Boundary and outside of the Elk Hills Existing Conservation Area.

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Miles
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2011 CONSERVATION AREA MONITORING DATA

- BNLL FEMALE
- BNLL MALE
- BNLL UNKNOWN
- GKR PRECINCT
- SJKF SCENT STATION

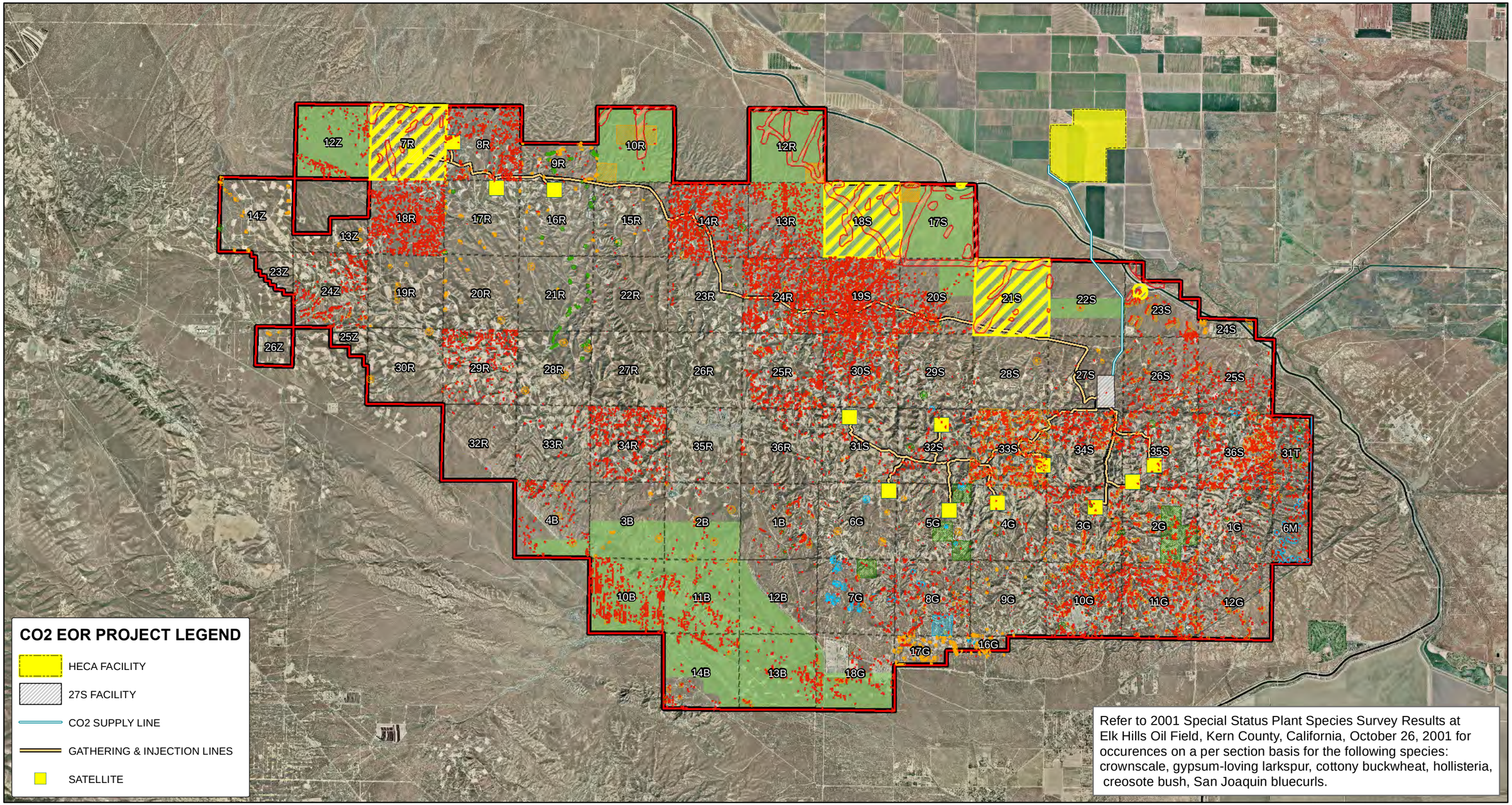
Figure 6

Map Production Date: 09-24-2012

Source: OEHI

OCCIDENTAL OF ELK HILLS, INC.

FLORISTIC SURVEY PARTIAL RESULTS 1995 - 2001



CO2 EOR PROJECT LEGEND

- HECA FACILITY
- 27S FACILITY
- CO2 SUPPLY LINE
- GATHERING & INJECTION LINES
- SATELLITE

Refer to 2001 Special Status Plant Species Survey Results at Elk Hills Oil Field, Kern County, California, October 26, 2001 for occurences on a per section basis for the following species: crownscale, gypsum-loving larkspur, cottony buckwheat, hollisteria, creosote bush, San Joaquin bluecurls.

0 0.7 1.4
Miles
1:80,000

- ELK HILLS OIL FIELD BOUNDARY
- ELK HILLS EXISTING CONSERVATION AREA

Partial List of Plant Species Observed During Floristic Surveys (1995 - 2001)

- Hoover's eriastrum
- Tejon poppy
- recurved larkspur
- Lost Hills crownscale
- oil neststraw

FIGURE 7

Map Production Date: 09-24-2012

Source: OEHI

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

AMENDED APPLICATION FOR CERTIFICATION FOR THE HYDROGEN ENERGY CALIFORNIA PROJECT

Docket No. 08-AFC-08A
(Revised 10/9/12)

APPLICANT
SCS Energy LLC
Marisa Mascaro
30 Monument Square, Suite 235
Concord, MA 01742
mmascaro@scsenergyllc.com

Tiffany Rau
2629 Manhattan Avenue, PMB# 187
Hermosa Beach, CA 90254
trau@heca.com

George Landman
Director of Finance and
Regulatory Affairs
Hydrogen Energy California, LLC
500 Sansome Street, Suite 750
San Francisco, CA 94111
glandman@heca.com

APPLICANT'S CONSULTANT
Dale Shileikis, Vice President
Energy Services Manager
Major Environmental Programs
URS Corporation
One Montgomery Street, Suite 900
San Francisco, CA 94104-4538
dale_shileikis@urscorp.com

COUNSEL FOR APPLICANT
Michael J. Carroll
Latham & Watkins, LLP
650 Town Center Drive, 20th Fl.
Costa Mesa, CA 92626-1925
michael.carroll@lw.com

INTERESTED AGENCIES
California ISO
e-recipient@caiso.com

Marni Weber
Department of Conservation
Office of Governmental and
Environmental Relations
(Department of Oil, Gas &
Geothermal Resources)
801 K Street MS 2402
Sacramento, CA 95814-3530
marni.weber@conservation.ca.gov

INTERVENORS
California Unions for Reliable Energy
Thomas A. Enslow
Marc D. Joseph
Adams Broadwell Joseph & Cardozo
520 Capitol Mall, Suite 350
Sacramento, CA 95814
tenslow@adamsbroadwell.com

Tom Frantz
Association of Irritated Residents
30100 Orange Street
Shafter, CA 93263
tfrantz@bak.rr.com

Kern-Kaweah Chapter
Of the Sierra Club
Andrea Issod
Matthew Vespa
85 Second St, Second Floor
San Francisco, CA 94105
andrea.issod@sierraclub.org
matt.vespa@sierraclub.org

INTERVENORS (con't.)
Environmental Defense Fund (EDF)
Timothy O'Connor, Esq.
123 Mission Street, 28th Floor
San Francisco, CA 94105
toconnor@edf.org

Natural Resources Defense Council
George Peridas
111 Sutter Street, 20th Fl.
San Francisco, CA 94104
gperidas@nrdc.org

Kern County Farm Bureau, Inc.
Benjamin McFarland
801 South Mt. Vernon Avenue
Bakersfield, CA 93307
bmcfarland@kerncfb.com

*indicates change

ENERGY COMMISSION – DECISIONMAKERS

KAREN DOUGLAS
Commissioner and Presiding Member
karen.douglas@energy.ca.gov

ANDREW McALLISTER
Commissioner and Associate Member
andrew.mcallister@energy.ca.gov

Raoul Renaud
Hearing Adviser
raoul.renaud@energy.ca.gov

Eileen Allen
Commissioners' Technical
Advisor for Facility Siting
eileen.allen@energy.ca.gov

Galen Lemei
Advisor to Presiding Member
galen.lemei@energy.ca.gov

Jennifer Nelson
Advisor to Presiding Member
jennifer.nelson@energy.ca.gov

David Hungerford
Advisor to Associate Member
david.hungerford@energy.ca.gov

*Pat Saxton
Advisor to Associate Member
patrick.saxton@energy.ca.gov

ENERGY COMMISSION – STAFF

Robert Worl
Project Manager
robert.worl@energy.ca.gov

John Heiser
Associate Project Manager
john.heiser@energy.ca.gov

Lisa DeCarlo
Staff Counsel
lisa.decarlo@energy.ca.gov

ENERGY COMMISSION – PUBLIC ADVISER

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

DECLARATION OF SERVICE

I, Dale Shileikis, declare that on November 13, 2012, I served and filed a copy of the attached OEHI Response to CEC Data Request A60, dated November, 2012. This document is accompanied by the most recent Proof of Service list, located on the web page for this project at:
http://www.energy.ca.gov/sitingcases/hydrogen_energy/index.html

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 or Chief Counsel, as appropriate, in the following manner:
(*Check all that Apply*)

For service to all other parties:

X Served electronically to all e-mail addresses on the Proof of Service list;

____ Served by delivering on this date, either personally, or for mailing with the U.S. Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses marked *"hard copy required" or where no e-mail address is provided.

AND

For filing with the Docket Unit at the Energy Commission:

X by sending one electronic copy to the e-mail address below (preferred method); OR

____ by depositing an original and 12 paper copies in the mail with the U.S. Postal Service with first class postage thereon fully prepaid, as follows:

CALIFORNIA ENERGY COMMISSION – DOCKET UNIT
Attn: Docket No. 08-AFC-08A
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.ca.gov

OR, if filing a Petition for Reconsideration of Decision or Order pursuant to Title 20, § 1720:

____ Served by delivering on this date one electronic copy by e-mail, and an original paper copy to the Chief Counsel at the following address, either personally, or for mailing with the U.S. Postal Service with first class postage thereon fully prepaid:

California Energy Commission
Michael J. Levy, Chief Counsel
1516 Ninth Street MS-14
Sacramento, CA 95814
michael.levy@energy.ca.gov

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.