

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

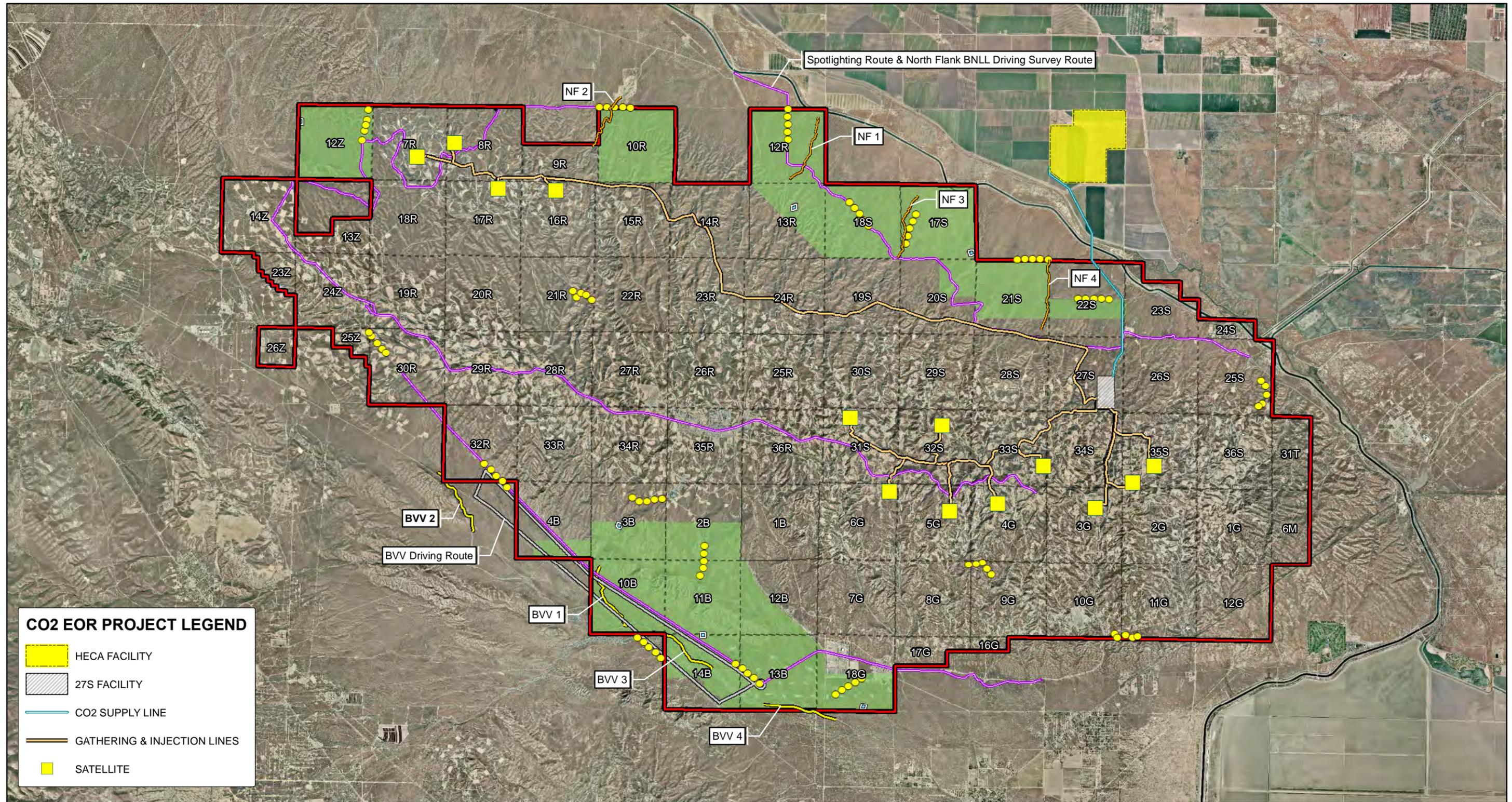
- A60. Please provide an aerial exhibit(s) at an appropriate scale (e.g. 1 inch: 7,000 feet) showing plant and wildlife species GPS data collected during previous monitoring years. On the exhibit, please also show a conceptual drawing overlay (such as AutoCAD) of the 13 satellites shown in Appendix A.

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



CO2 EOR PROJECT LEGEND

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

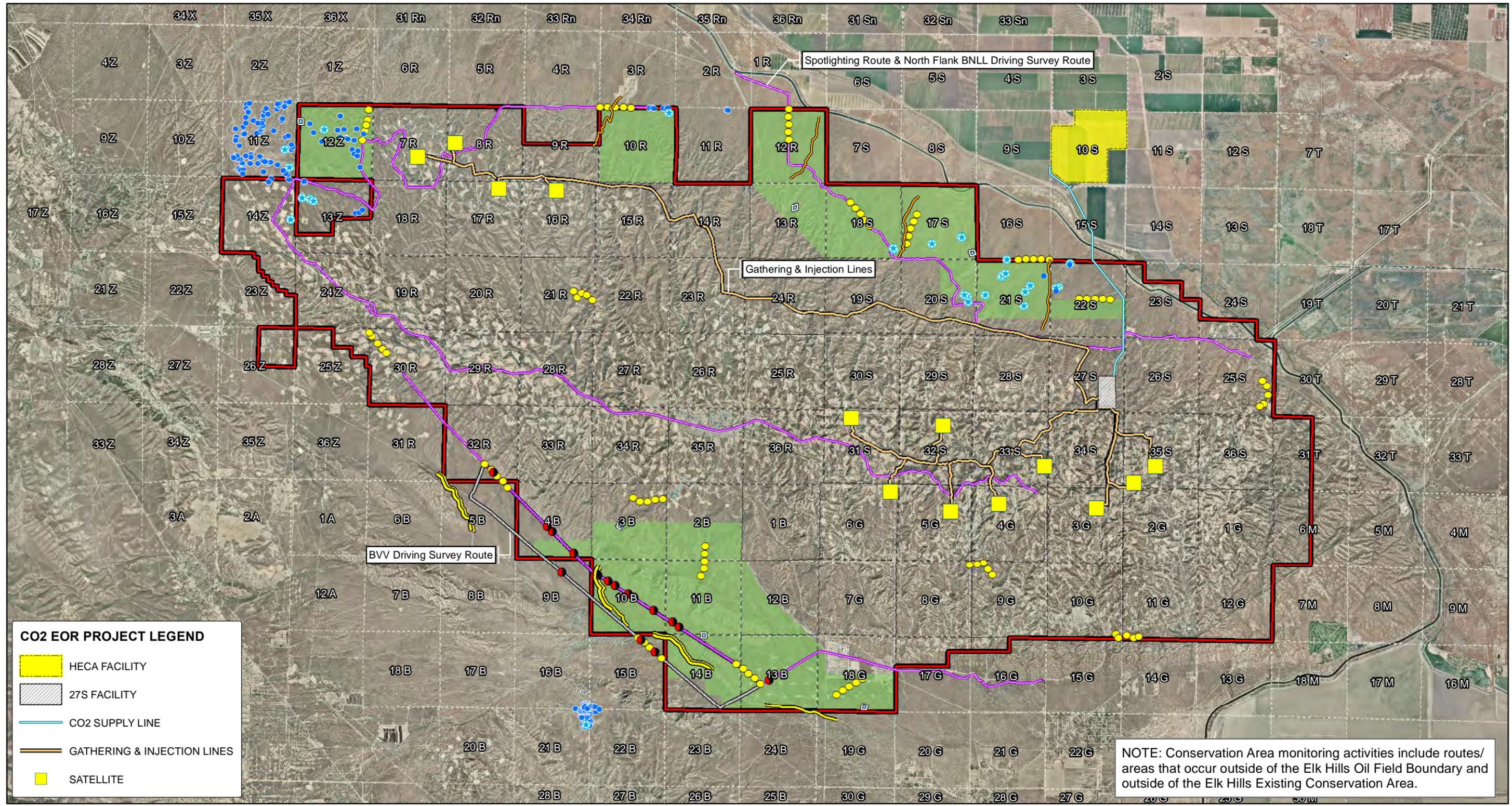
- ELK HILLS OIL FIELD BOUNDARY
- ELK HILLS EXISTING CONSERVATION AREA
- SMALL MAMMAL TRAPPING GRIDS
- SPOTLIGHTING ROUTES
- NORTH FLANK BNLL DRIVING SURVEY ROUTE
- NORTH FLANK (NF) BNLL WALKING SURVEY ROUTES
- BUENA VISTA VALLEY (BVV) BNLL WALKING SURVEY ROUTES
- BUENA VISTA VALLEY BNLL DRIVING SURVEY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

FIGURE 1



OCCIDENTAL OF ELK HILLS, INC.

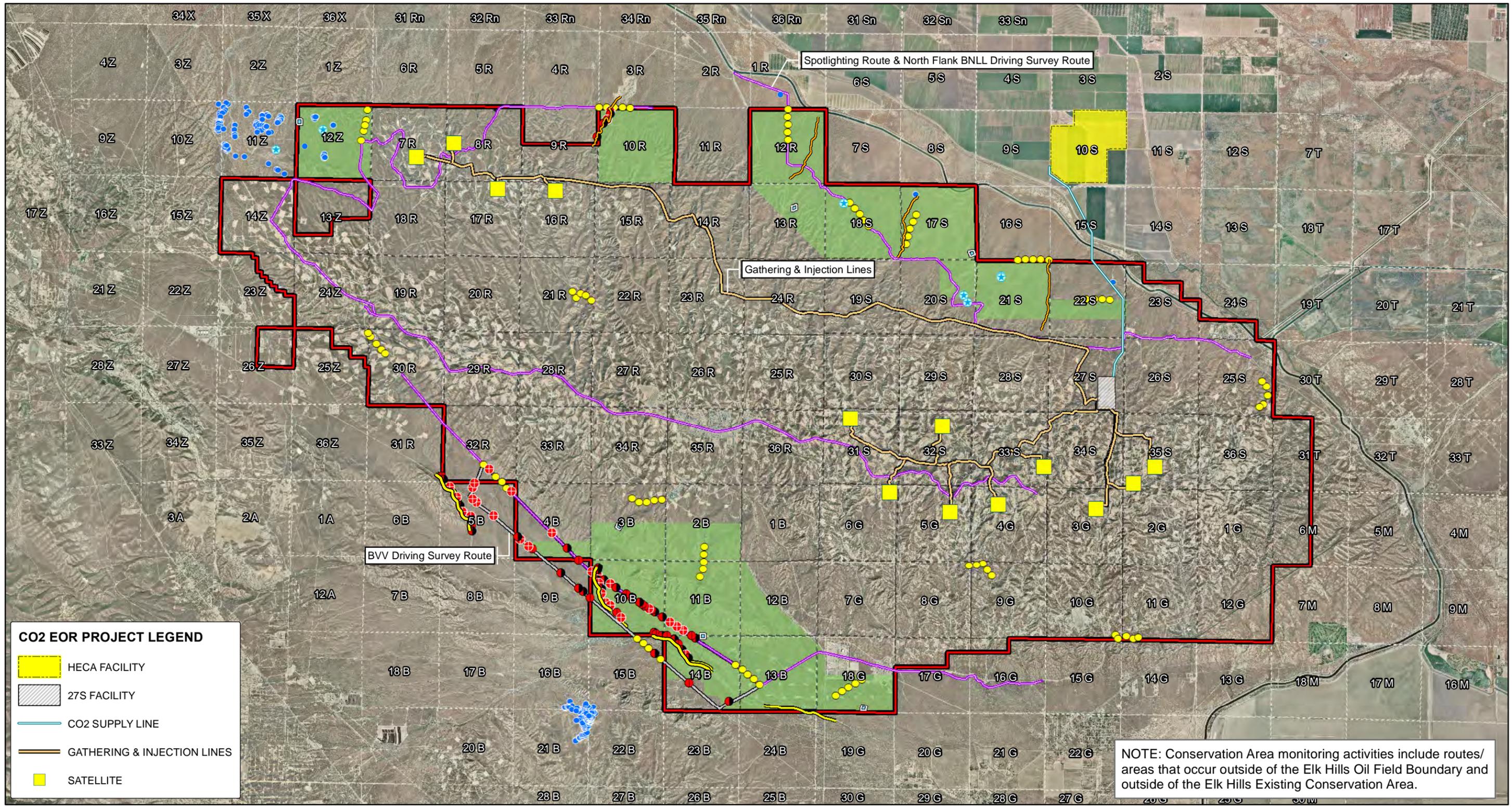
CONSERVATION AREA MONITORING OBSERVATIONS - 2007





OCCIDENTAL OF ELK HILLS, INC.

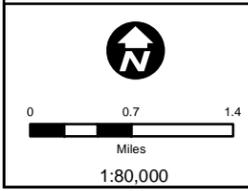
CONSERVATION AREA MONITORING OBSERVATIONS - 2009



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.



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

2009 CONSERVATION AREA MONITORING DATA

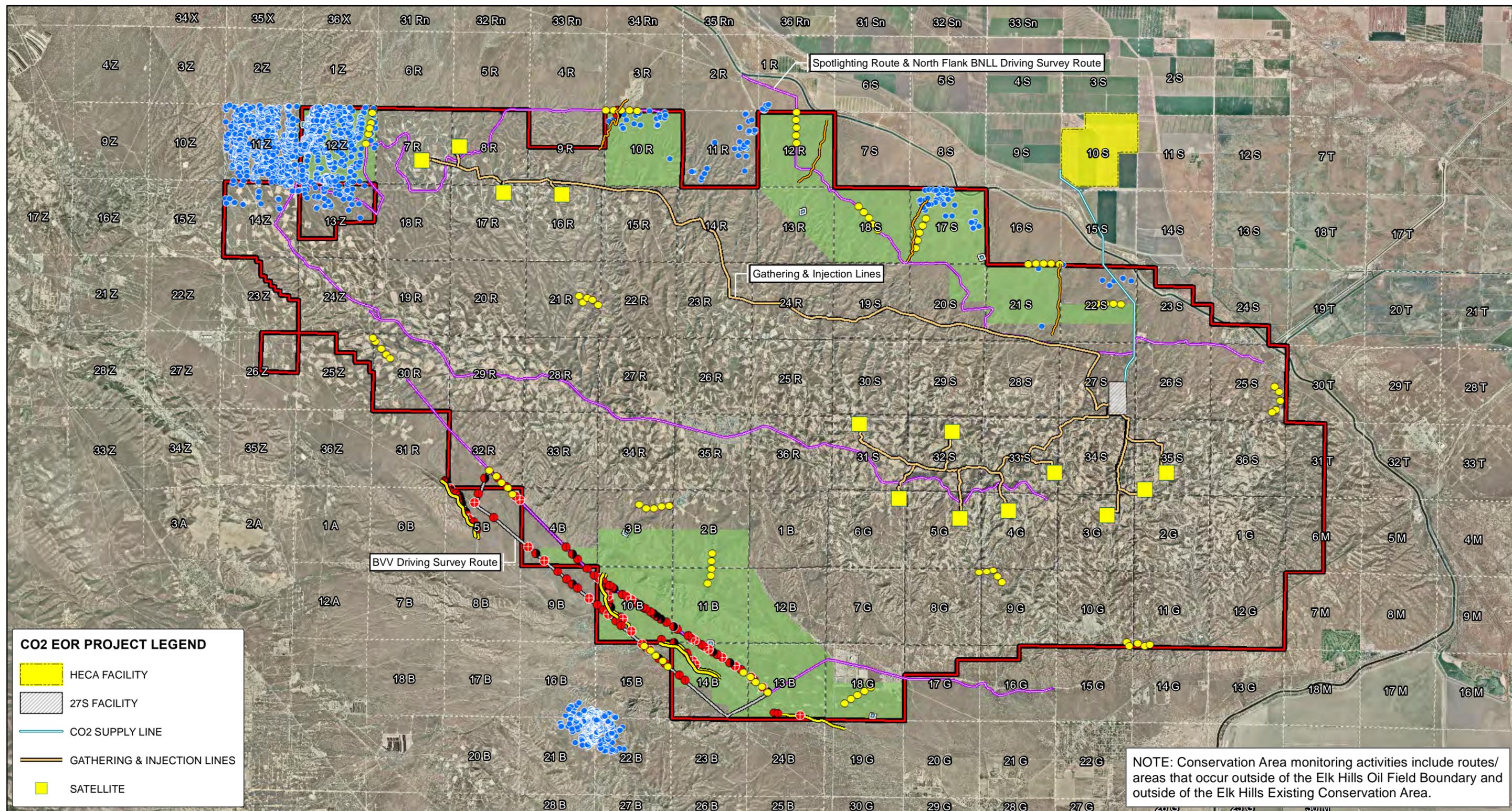
- BNLL FEMALE
- BNLL MALE
- BNLL UNKNOWN
- GKR PRECINCT
- SJKF SCENT STATION
- SJKF NATAL DEN

Figure 4



OCCIDENTAL OF ELK HILLS, INC.

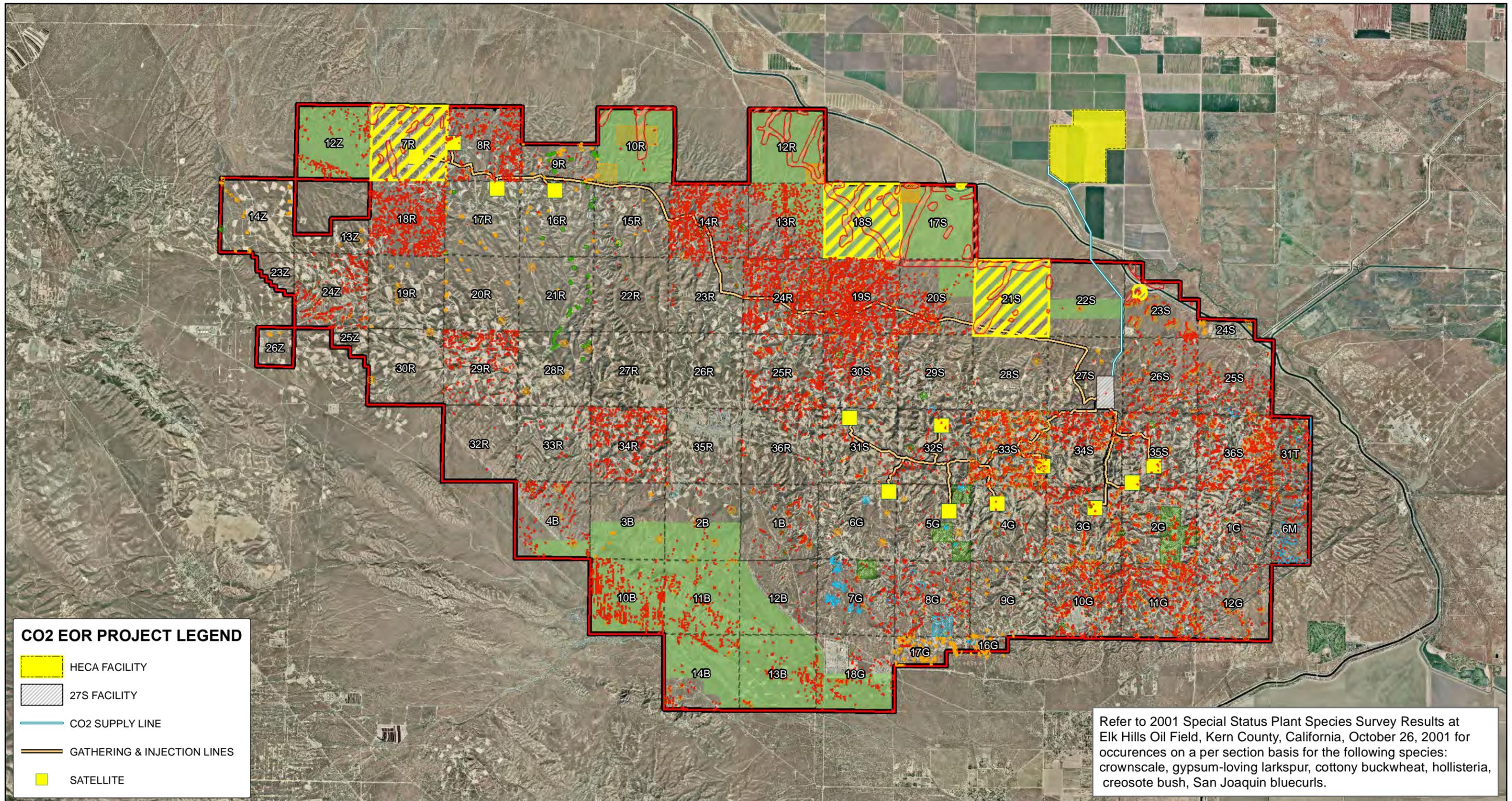
CONSERVATION AREA MONITORING OBSERVATIONS - 2011





OCCIDENTAL OF ELK HILLS, INC.

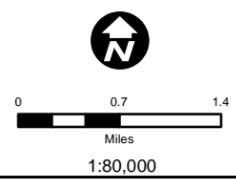
FLORISTIC SURVEY PARTIAL RESULTS 1995 - 2001



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 occurrences on a per section basis for the following species: crownscale, gypsum-loving larkspur, cottony buckwheat, hollisteria, creosote bush, San Joaquin bluecurls.



- 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



**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)**

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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:

- 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:

- 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
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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.