

APPENDIX D

Biological Survey and Certified Biological Representative Program

LOST HILLS CHEVRON BIOLOGICAL SURVEY AND HABITAT IMPACT REVIEW FORM

	Prepared for	: Mike	Plowman		ate: 2-18-10	Time: 9:00an		
		Lost Hills	Lease/P	Property: Lost I		⊠Fee	Federal	
	GPS:					erence: WGS 84 Zone 11 CO	NUS	
l	Section/T/R(29 / T 26S / R 21			Sunny, cool, hazy		
	Project Location and Description: Lost Hills 29 Generator Site. Project consists of the construction of a new							
		generator site and road widening. Habitat estimates for road widening were based on five feet of additional road clearance on each side of existing roadways. See Attachment						
SURVEY		n each side of e	existing roadway			I WHITE		
INFORMATION		NE:	1		C	WHITE	T	
		Project Footprint Sq. ft. / acres	A Undisturbed Habitat	B Recovering Habitat	Not Habitat or Significantly Disturbed	Habitat Impact Calculation (A x 1.0) + (B x 0.5) + (C x 0)	Total Calculated Impact	
	Permanent	3.25	3.05	0.00	0.02	3.05+0.00+0.00	3.05	
l I	Temporary	0.00	0.00	0.00	0.00	0.00	0.00	
			The conversion	п factor is 1 acre = 43,560	sq. ft. Use either acres or so	q ft		
	ACTOR AND ADDRESS OF THE PARTY		The state of the s		ansects spaced at	t:	50ft.	
SURVEY	PRODUCT AND ADDRESS OF THE PARTY OF THE PART		ine plus corrido	or to either side o	out to:		ft,	
Метнор	Other; des					(
			ns were marked		1000			
			tolling Hills	Floodplain	Steep Hills			
Topography						roposed project area is I	ocated	
	Within a low t	to moderate de	nsity on and ga	s field, approxim	nately 400' in elev	vation.		
	□ Non-Nativ	e Grassland	Alkali Sin	ok Scrub XS	Saltbush Scrub	Ruderal Riparia	en (etream)	
		rub layer (trees		riplex polycarpa	Jailbusii Oorac	Truderai Linpani	III (Stream)	
	Dominant he		Bromus madritensis					
VEGETATION	Sensitive 2	⊠None Observ	_	alifornia Jewelflov		n Joaquin Woolly-Threa	ads	
OBSERVED AT	Plants:		loover's Woolly-			nsitive Plants:		
PROJECT SITE	Was survey	performed at ar	ppropriate time	for detection of	sensitive annual p	plants? Yes	⊠No	
· ·	Plants Comments:	Sensitive pl	ant species are	not anticipated	to be present wit	thin the project area.		
WILDLIFE	⊠ None Obs □ Giant Kan				Nosed Leopard Li rel 🔲 Burrowing		angaroo Rat cribe below)	
Навітат					erved during the s	V.————————————————————————————————————	All the second s	
AND/OR SIGN	!		· · · · · ·		•	-	,	
OBSERVED AT	Wildlife Commonts:	Baseu o the lack	of RNI Lobser	nall mammai but	rrows within the p	project site and roadway previous CDFG protoco	/ edges, and	
PROJECT	Comments:			vations in the pro s species are not		bienions only biology)I DIVLL	
SITE			1111/2002	opesial	. distribution			
	The project	ct should not re	sult in direct impa	acts to threatened	or endangered spe	ecies provided that standa	rd Chevron	
	precautionary measures are implemented along with the specific directions listed below in the comments section.							
				∍d; Follow-up resu	ılts completed by a	Qualified Biologist must b	e attached	
SURVEY		oceeding with pro		a result of this s		Yes 🛛 No		
RESULTS	VVere any mo	Jameanons mad	te to brolect as	a result of this s	survey!	Yes 🛛 No		
	Survey				ey date and projec	ct commencement, a pr	e-activity	
1	Comments:	survey should	d be conducted	i.				
	Target							
FOLLOW-UP	Species/		T	imeframe				
SURVEY	Issues							
	Surveyor Name: Kacy O'Malley Company: McCormick Biological, Inc. Date: 3-4-10							
FORM	Copy to Area H	IES Attn:	M HES	S BU Staff - 9525 Camino	o Modia			
DISTRIBUTION:	Galon Gordon (('galongordon@chevror	n.com') 🖂 Brad	d Noblitt (NOBB@chevro	on.com)	Other:		

Attachment 1: Lost Hills 29 Generator Site Location Map

CERTIFIED BIOLOGICAL REPRESENTATIVE PROGRAM

Chevron Threatened and Endangered Species Compliance Program Information

CERTIFIED BIOLOGICAL REPRESENTATIVE PROGRAM

Federal and State Endangered Species Acts require that:

- 1. Chevron conduct its operations to ensure that no "take" of endangered species occurs as a result of our operations, and that
- 2. We minimize and where required mitigate or compensate for the impacts our operations may have on Threatened and Endangered Species habitat.

To facilitate compliance with these requirements, we have developed the Certified Biological Representative (CBR) Program. The program is designed to train Chevron personnel and Business Partners as appropriate to evaluate, direct mitigation, and track required compensation for impacts from our operations.

For example: say we are planning to drill a well from a new well pad location. A CBR would be called out before any work takes place to survey the site, evaluate if the planned work would impact T&E Species or their habitat, and document the acreage of habitat that will be disturbed. If sensitive biological resources or rare plants may be impacted, the CBR will request the assistance of a qualified biologist to ensure that our planned operations will not result in "take" of an endangered species.

The goals of the Chevron Certified Biological Representative (CBR) Certification Program are as follows:

- To establish a pool of both Chevron technical staff, appropriate business partners and/or qualified biologists capable of effectively evaluating potential impacts from our operations, and
- To train and certify CBRs to conduct biological wildlife resource screening of proposed project locations

CBRs attend initial training led by a qualified biologist, consisting of 4hours of class room work followed by 4 hours of in-field training. CBRs are then mentored by experienced qualified biologists or CBRs. Surveys prepared by CBRs are reviewed for completeness, content, and consistency. Internal audits of surveys are completed annually. Training includes:

- Chevron's policies, practices, processes and compliance strategies
- State and Federal agency laws, regulations, requirements and practices
- Long range planning HCPs
- Chevron's Role and Responsibility
- Responsibilities for employees, business partners, CBRs and HES staff
- CBR Program Goals
- Streambed alteration notification process
- Migratory Bird Treaty Act compliance
- Incidental Take Avoidance and Mitigation Standards
- Habitat Type Review Light vs. Medium/Heavy Disturbance areas When to contact a qualified biologist
- Species of Concern: protection status, identification, behaviors, sign, distribution, avoidance and mitigation strategies
- Recognition of potential impact situations and lessons learned
- Population shifts and changes
- CBR and Qualified Biologist Survey Protocols
- Do's and Don'ts

CBRs are authorized to conduct pre-construction biological surveys only in areas where there is existing moderate to heavy habitat disturbance. In areas that have not previously been disturbed, business partner

qualified biologists will be asked to perform surveys. Project planning surveys are conducted by qualified biologists to determine need for full and seasonally appropriate surveys for identified sensitive species.

All CBRs are required to attend a ½ day field refresher each year. Refreshers typically include a review of the survey protocol, species identification and focus on a particular issue such as sensitive plants, common plants, identification of sign (scat, tracks, dens) etc..

Pre-Construction Screening Survey Protocol and Form

Purpose: The purpose of this survey protocol is to:

- identify the presence or sign of wildlife and plant life, particularly identified sensitive, or threatened and endangered species,
- · ensure that disturbance of habitat is minimized,
- identify location or orientation alternatives to proposed project based on actual site features
- ensure that streambed setbacks are observed, and trigger application for a streambed alteration notification if necessary,
- · accurately quantify the amount and type of habitat to be permanently or temporarily disturbed,
- · determine what site specific mitigation measure are needed, and
- provide site specific information to be discussed in pre-construction site orientations.

Use: This survey protocol shall be used to evaluate the species and habitat impacts of any activity which will result in disturbance of soil or the grubbing of plant life. The survey shall be administered by:

<u>Certified Biological Representatives</u> – in areas having moderate or heavy previous disturbance within the productive area of the oilfield.

<u>Qualified Biologists</u> – in areas having light or no previous disturbance, areas outside of the productive zone of the oilfield, or areas where sufficient historical information is not available on the presence of sensitive species.

Note: This protocol is not intended to be used to evaluate potential impacts for large construction or development projects. Such projects should be subjected to full biological surveys according to accepted protocols, in season, and performed by Qualified Biologists. Subsequent pre-construction surveys associated with implementing such projects however, can be performed by CBRs.

Form to be Used: The attached form shall be used to document the results and specify any follow-up surveys required. Completion of survey forms will be monitored to ensure that accurate, consistent, effective and sufficient data is being collected.

How to Conduct a Screening Survey

- ⇒ Be aware of which sensitive or T&E species may be present in the project location, what habitat types are represented
- ⇒ Determine the size of the proposed project disturbance
- ⇒ Survey the disturbance area plus 150 to 200 foot buffer area. Linear projects should be walked with transects out to sides at appropriate intervals.
- ⇒ Walk approximately 50 foot belt transects to cover the entire area including the buffer area
- ⇒ Take notes of what you see on the survey form

- ⇒ Note any wildlife or evidence of wildlife, such as burrows, patterns of burrows, scat, tail drags, or digging.
- ⇒ Note whether or not the survey is being performed during the proper season for sensitive plant life
- ⇒ Note if the habitat is appropriate for T&E species such as blunt-nosed leopard lizard. Pay particular attention to riparian habitat. If riparian habitat will be impacted, contact a qualified biologist for assistance.
- ⇒ Note SJKF potential dens, known dens or pupping dens as appropriate. If any of these are present, a qualified biologist should perform a follow-up survey.
- ⇒ If any sensitive biological resources are identified, note if they can be avoided by use of appropriate buffer distance.

Recommended Buffer Distances			
San Joaquin Kit Fox Dens:	Pupping dens (unoccupied)	200 feet	
	Known	100 feet	
	Potential	50 feet	
Giant Kangaroo Rat Burrows		100 feet	
Tipton Kangaroo Rat Burrows		50 feet	
San Joaquin Antelope Squirrel Burrows		50 feet	
Other sensitive species		50 feet	
Avian species	Can vary depending on proposed activity, sensitivity of species, and nesting season		

⇒ Buffer zones should be constructed of stakes and flagging or similar material sufficient to exclude vehicle traffic and other project related activities.

Species Specific Notes

Bakersfield Cactus: If a population of Bakersfield Cactus is noted near project, ensure that cactus is protected and effective barriers are installed to prohibit disturbance.

Birds: Note any active nests – Active nest are nest that have eggs, or young. Check trees, power poles, shrubbery and even the ground for nests. Listen for calls or song. If the project will require removal of an active nest, you will need to wait for the young to fledge (be able to fly). For most songbirds, this can take up to 4 weeks from laying to fledging. Contact a qualified biologist for assistance. Be aware that the project could impact the nesting of raptors up to ½ of a mile away or more.

Blunt nosed leopard lizard – Be aware of whether or not BNLL is anticipated to be present in the area of the project. If the area has a known population, or if during the survey it is determined that the habitat in the general vicinity of the project is good BNLL territory (washes, saltbush with significant open areas), or you note BNLL scat outside burrows, contact a qualified biologist for a follow-up survey.

Elderberry Bushes – If elderberry bushes are located within the footprint of the project, and the project can not be reoriented or relocated, contact a qualified biologist for assistance.

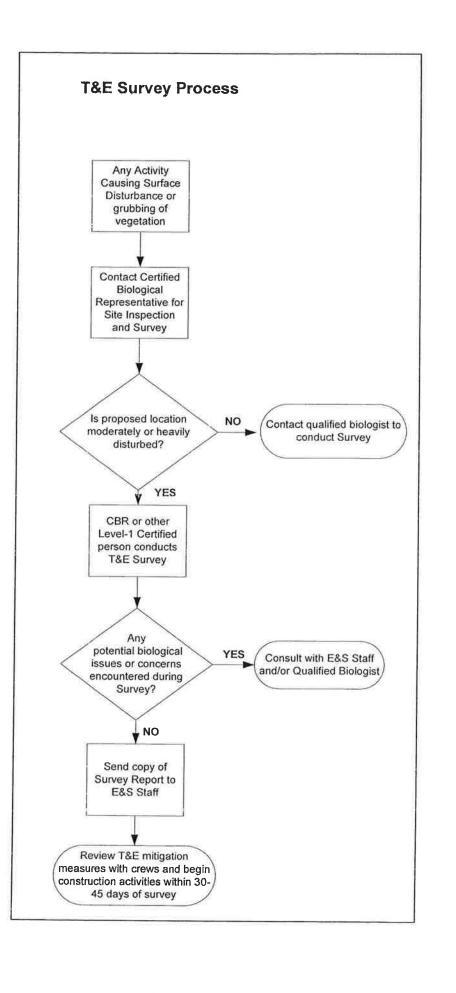
Small Mammals – Be aware if Giant Kangaroo Rats or Tipton Kangaroo Rats are anticipated in the area of the project. If typical patterns of properly sized burrows are evident contact a qualified biologist for a follow-up survey. Listen and watch for Antelope Ground Squirrel.

San Joaquin kit fox – Watch for potential dens, culvert pipes, and large key-hole shaped dens too small for coyotes. Look for typical elongated and pinched scat with evidence of fur. If you find potential dens, contact a qualified biologist to determine if the den is occupied.

Other Wildlife – Note all wildlife observed on survey form. All wildlife is protected by law. If the proposed project will negatively interfere with an observed population of animals, contact a qualified biologist for evaluation.

The following Standard Precautionary Measures shall be taken at all Chevron construction locations:

- Prior to initiating activities, potential San Joaquin kit fox dens will be monitored and covered or excavated by a qualified biologist as appropriate.
- > Prior to initiating the construction of the project, all company and contract personnel should be oriented to site conditions, sensitive areas, and areas of biological concern.
- No vehicles are permitted off lease roads, except for the construction of the project. Personnel involved in the construction of the project shall stay within the surveyed areas.
- All vehicles shall comply with the posted speed limit on lease roads. If the speed limit is not posted, vehicle speed shall not exceed 25 mph.
- > Spillage of crude oil and/or hazardous chemicals shall be immediately cleaned up. All sumps containing oil shall be netted and screened to prevent the entrance of wildlife.
- > Food or food trash shall not be left available to wildlife.
- No firearms or dogs are allowed in operational areas
- Cover ends of pipe in storage to preclude wildlife
- > Cover trenches or excavations to be left overnight, or provide wildlife escape ramps
- > Removal of any trees should be reviewed and approved by a qualified biologist



CHEVRON BIOLOGICAL SURVEY AND HABITAT IMPACT REVIEW FORM

Prepared for: Date:	Time:									
Field/Area: Lease/Property:	□Fee □Federal									
GPS: GPS Re										
Section/T/R(s): Weather:										
Project Description:										
Survey										
Type of Disturbance Project A B C Habitat Type of Disturbance FootprintSqft Undisturbed Recovering Habitat Or Not Habitat (A x 1.0)	Impact Calculation									
Permanent (pads, buildings, roads)										
Temporary (Lines, fences, events)										
	A + B + C should equal the lotal project footprint. Conversion factor is 1 acre = 43,560 sq. ft. Use either acres or sq. ft.									
Pads or locations – Impact area plus 200' buffer with transects spaced at:										
Othor: describe:	Linear projects – Centerline plus corridor to either side out to: Other; describe:									
I MECHOD Limited to the second	All sensitive burrows/dens were marked with:									
Flat Terrain Dry Wash Rolling Hills Floodplain Steep H	ills Potential Streambed									
Comments (include elevation if known, and amount of existing disturbance):										
Тородгарну										
☐ Non-Native Grassland ☐ Alkali Sink Scrub ☐ Saltbush Scrub ☐ R	☐ Non-Native Grassland ☐ Alkali Sink Scrub ☐ Saltbush Scrub ☐ Ruderal ☐ Riparian (stream)									
	Dominant shrub layer (trees, bushes):									
VEGETATION None Observed California Jawelflower Son Joseph M	Dominant herb layer: Sensitive None Observed California Jewelflower San Joaquin Woolly-Threads									
OBSERVED AT Sensitive Plants: Kern Mallow Bakersfield Cactus Hoover's Wool	Plants: Kern Mallow Bakersfield Cactus Hoover's Woolly-Star									
PROJECT	Elderberry Other Sensitive Plants:									
Was survey performed at appropriate time for detection of sensitive annual plants? Plants	(Spring) Yes No									
Comments:										
None Observed San Joaquin Kit Fox Blunt-Nosed Leopard Lizard										
WILDLIFE Giant Kangaroo Rat San Joaquin Antelope Squirrel Burrowing Owl	Tipton Kangaroo Rat									
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	☐ Tipton Kangaroo Rat☐ Other (describe below)									
Project Wildlife Comments:										
SITE Comments:	Other (describe below)									
SITE Comments: The project should not result in direct impacts to threatened or endangered spe	Other (describe below)									
SITE Comments: The project should not result in direct impacts to threatened or endangered specific direct comments section.	Other (describe below) ecies provided that standard tions listed below in the									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a	Other (describe below) ecies provided that standard tions listed below in the									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project.	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Survey RESULTS Comments: The project should not result in direct impacts to threatened or endangered specific direct comments are implemented along with the specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project. Were any modifications made to project as a result of this survey? Yes Notes	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project. Were any modifications made to project as a result of this survey? Yes Not Survey Comments:	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project. Were any modifications made to project as a result of this survey? Yes Not Survey Comments: Target Species/	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project. Were any modifications made to project as a result of this survey? Yes Not Survey Comments: Target Species/ Issues	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									
The project should not result in direct impacts to threatened or endangered specific direct comments section. Additional survey and/or follow-up is required; Follow-up results completed by a attached prior to proceeding with project. Were any modifications made to project as a result of this survey? Yes No Survey Comments: Target Species/ Timefrar	Other (describe below) ecies provided that standard tions listed below in the Qualified Biologist must be									