

PLANNING AND BUILDING DEPARTMENT

https://www.edcgov.us/Government/Planning

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TO:

County of El Dorado Agricultural Commissioner/Commission

FROM:

Evan Mattes, Senior Planner

DATE:

June 7, 2023

RE:

CCUP22-0003/Landrace Commercial Cannabis Cultivation

Commercial Cannabis Use Permit

Assessor's Parcel Number: 088-021-043

Planning Request and Project Description:

Planning Services is processing the attached application for a Commercial Cannabis Use Permit and requests the project be placed on the Agricultural Commission's Agenda. Section 130.41.200.5.N of the Zoning Ordinance states "Recommendation of the Agricultural Commission. An application for a Commercial Cannabis Use Permit for outdoor or mixed-light cultivation must be reviewed by the Agricultural Commission and the recommendation of the Agricultural Commission, including any suggested conditions or restrictions, shall be forwarded to and considered by the Planning Commission."

The applicants are requesting the following:

Commercial Cannabis Use Permit for the cultivation of commercial cannabis located at 5700 Hackomiller Rd. Somerset -APN: 088-021-043, within Board of Supervisor District 4. The project is located on a 61.54-acre parcel zoned Agricultural Grazing 40-Acres (AG-40) within an Agricultural district. This application is for 75,000 square feet of outdoor cannabis cultivation and processing for distribution over three phases. Phase 1 would encompass 30,000 sq ft of canopy space, Phase 2 will consist of 60,000 sq ft of canopy space and Phase 3 will consist of 75,000 sq ft. It is anticipated the operation will employee up to 7 full-time employees and up to 20 seasonal employees. The project site is surrounded on all sides by parcels within an Agricultural district. Properties to the south are zoned AG-40, to the east Planned Agricultural 20-Acres (PA-20) and to the north and west Rural Lands 10-Acres (RL-10) and Rural Lands 20-Acres (RL-20).

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CULTIVATION PLAN:

This will be a highly productive biological farm. Zachary Mosier and Michael Ciulla will operate/oversee all cultivation activity on the farm. John Roe and Barbara Thompson will reside on the property.

The farm will encompass approximately 10,000 ft2 in phase 1, expanding to 75,000ft2 of cultivation space in phase 3. The crops will be grown in raised beds covered 16' x 100' gothic caterpillar tunnels compliant with CODE 325-CPS-1 Natural Resources Conservation Service (USDA). The caterpillar tunnels will use using light deprivation to increases to 3 harvests per year (see attached caterpillar tunnel design plans). Immature plants will be maintained in a raised separate nursery caterpillar tunnels. All cultivation areas will be appropriately screened and contained within wildlife exclusionary fencing with locked gates per El Dorado County regulations.

All crops on the property will be organically grown without any chemical fertilizer, pesticides, fungicides or herbicides. All crop waste will be composted.

During the anticipated three harvest periods during the year (June, September, October), crops will be taken down and cured in a shipping container (please see attached Shipping Container design plans). Trimming of the crops will be performed on site in HDX BASE-X 203 Shelter Systems (used by the US military for logistics operations). In between the processing window the structures will be stored. All harvested crops will be kept in a locked shipping container.

The farm will not be open to the public. The farm will be kept in a nondescript condition consistent with the surrounding properties. No signage will be placed. Finished product will be picked up 5-8 times a year by California licensed delivery services.

Due to the scale of the farm, in addition to Zachary, Michael, and Stephen we expect to hire 1 full time employees in phase 1, ramping up

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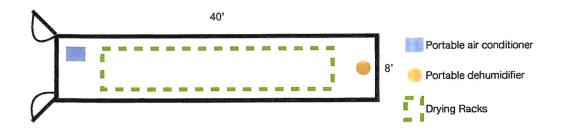
to 7 onsite employees by phase 3 to assist in the day-to-day operations of the farm. We will be hiring a temporary labor

force of 4 to 20 employees approximately 6-10 times a year to assist with harvest/ processing.

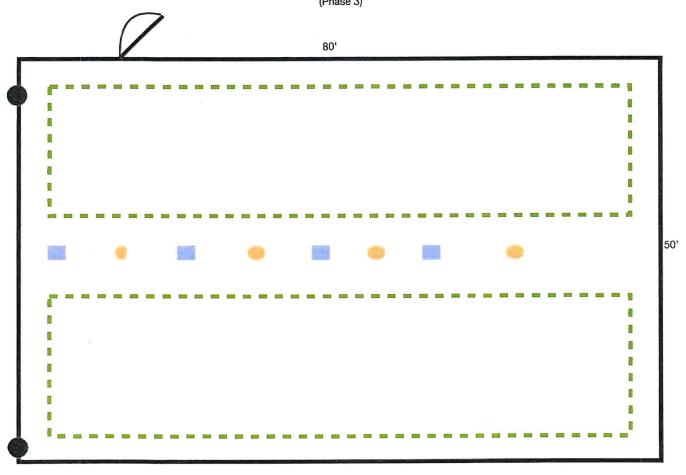
NURSERY PLAN:

We intend to develop the nursery slowly over the first two phases with little, if any, sales to licensed cultivators during this time. The first two years will be dedicated to research and development - carefully identifying and testing select craft cannabis strains through a process of extensive genetic selection of phenotypical expressions adapted to the local environment, aimed to benefit the cultivars in El Dorado County. Once sales begin, there will be a strict "by appointment only" policy to minimize any traffic to the farm. We intend to keep the farm's characteristics nondescript and consistent with the current feel of the area.

Drying Area Shipping Container Diagram (Phase 1 & 2)

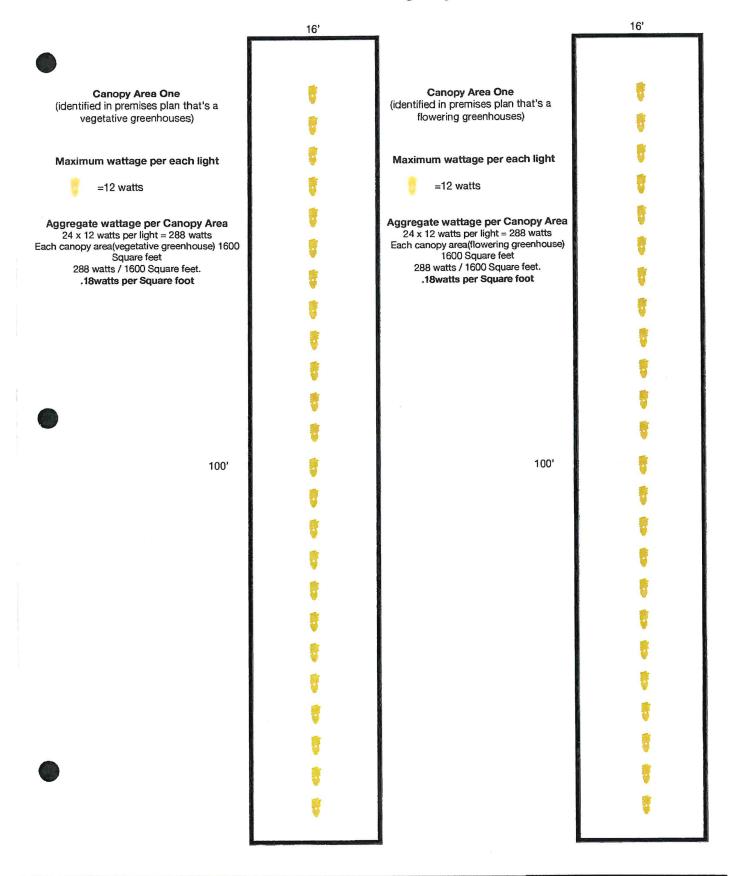


Drying Biulding Diagram (Phase 3)

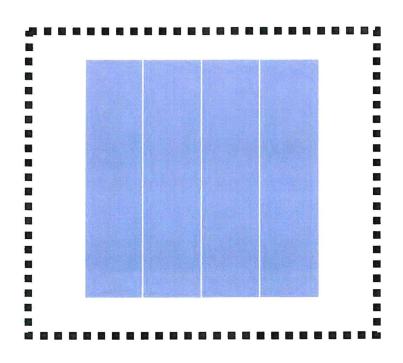


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Cultivation Area Lighting Plan



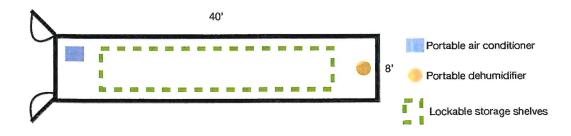
SECURE HARVEST STORAGE DIAGRAM



(4) 8'x40' ShippingContainer (secure harvest storage area)



Chainlink Fence (secure harvest storage area)



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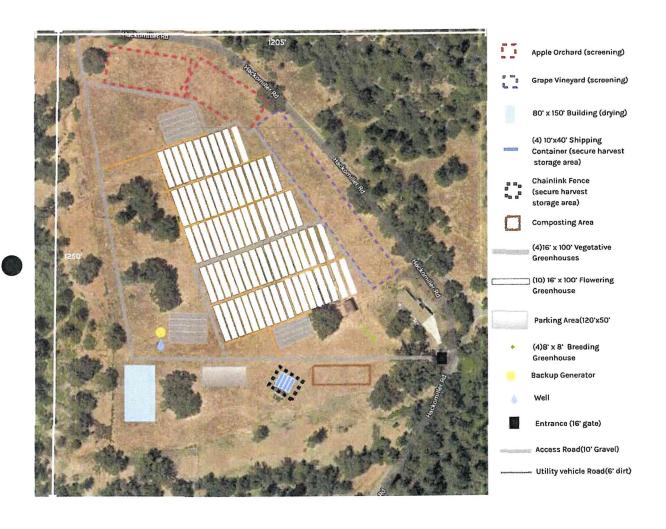
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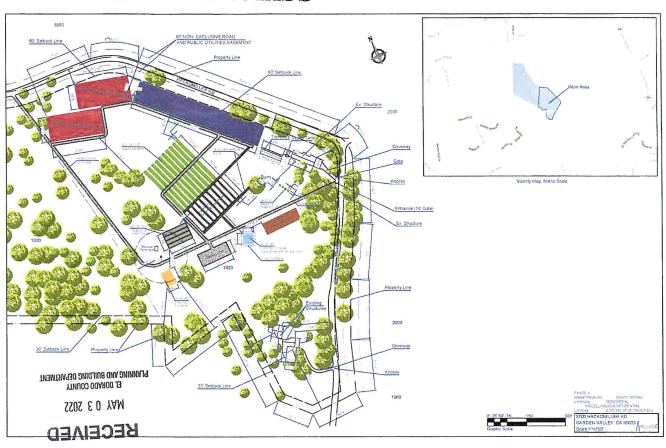


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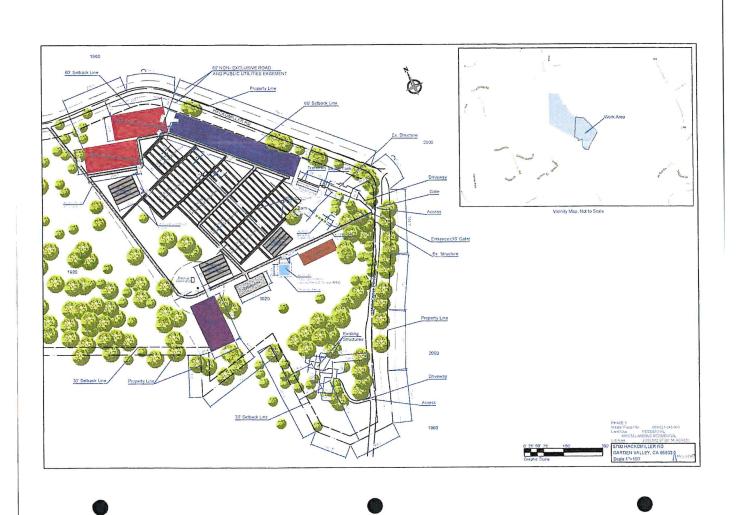




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WASTE MANAGEMENT PLAN:

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- A. **On-premise composting** pile method Appropriate materials are placed in a compost pile with activation materials and allowed to compost over a minimum period of 6 months in designated composting area.
- B. **On-premise vermiculture composting -** Appropriate materials are shredded and placed in worm bins for conversion to high quality compost tea and vermicastings.
- C. On-premise feeding Appropriate waste products will be fed to domestic farm animals. Appropriate materials such as vegetative leaves can be successfully fed to livestock.
- D. **On-premise burn** Waste may be burned on site during County identified burn days and consistent with all County burn regulations if allowable by the County.

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INTEGRATED PEST MANAGEMENT PLAN(IPM):

(LandRace) Farm will follow the University of California Agricultural and Natural Resources Statewide Integrated Pest Management Program and the California Department of Pesticide Regulations for Cannabis.

As defined by the University of California Agricultural and Natural Resources Statewide Integrated Pest Management Program, an IPM is an ecosystem-based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Only natural based pesticides are used only after monitoring indicates they are needed according to established guidelines, and treatments are made with the goal of removing only the target organism. Pest control materials are selected and applied in a manner that minimizes risks to human health, beneficial and non target organisms, and the especially environment.

In regard to cannabis, the California Department of Pesticide Regulations for Cannabis, as updated on October 9, 2017, allows a pesticide product to be legally applied to cannabis under state law if the active ingredients found in the product are exempt from residue tolerance requirements and the product is either exempt from registration requirements or registered for a use that's broad enough to include use on cannabis (See CDPR regulations for cannabis attached hereto; see also 40 C.F.R., § 180, et seq., FIFRA section 25(b) and 3 CCR section 6147).

Residue tolerance requirements are set by U.S. EPA for each pesticide on each food crop and are the amount of pesticide residue allowed to remain in or on each treated crop with "reasonable certainty of no harm." Some pesticides are exempted from the tolerance requirement when they're found to be minimal risk. In the event of biological preventatives failing LandRace will only use these pesticides witch are exempt from the tolerance requirements.

Active ingredients exempt from registration requirements are mostly food-grade essential oils such as peppermint oil or rosemary oil. At all times if feasible, LandRace will us non-pesticide biological methods to combat pests. Only when these non-pesticide methods fail will LandRace use "insecticides" such as food grade peppermint oil, rosemary oil, that are exempt from residue tolerance requirements and either exempt from registration requirements or registered for a use broad enough to include use on cannabis per the California Department of Pesticide Regulations for Cannabis.

LandRace will choose to implement this Integrated Pest Management Plan for reasons that include, but are not limited to:

- Managing pests effectively and economically;
- ? Minimizing the risk associated with pest suppression;
- Prevent loss or damage to crop or property by pests;
- **?** Producing quality commodities;

? Protection of environmental quality inside and outside our facility;

Zachary A. Mosier shall be LandRace IPM Coordinator and be responsible to implement the IPM plan and maintain records of pest management activities.

GENERAL IPM STRATEGIES

LandRace aims to minimize the use of all pesticides through its biological cultivation methods. By recreating the plants natural successional environment, promoting the colonization of native microbes, and engineering a symbiotic ecosystem below and above the soil. Our goal is to prevent any negative impact on the environment and in turn use these natural processes to work with and benefit the natural ecosystem that is already in place. Pest management strategies will also include education, exclusion, sanitation, maintenance, biological and mechanical controls identified by the University of California Agricultural and Natural Resources Statewide Integrated Pest Management Program and the California Department of Pesticide Regulations for Cannabis. Pest Management decisions shall consist of the following steps:

- 1. Identify pest species.
- 2. Estimate pest populations and compare to established action thresholds.
- 3. Select the appropriate non-pesticide biological management tactics based on current on-site information.
 - 4. Consult with non-pesticide management experts if required.
 - Assess effectiveness of pest management.
- 6. Select appropriate pest management applications approved by the California Department of Pesticide Regulations for Cannabis should non-pesticide management applications fail.
 - 7. Keep appropriate records.

As set forth in the California Department of Pesticide Regulations for Cannabis, standard practices for pests on plants other than cannabis should be used. Moe's Family Farms will follow the guidelines compiled by the University of California Statewide IPM Program (UCIPM) at www.ipm.ucdavis.edu. Once pest species are identified, Moe's Family Farms will obtain and use recommended IPM practices set forth at www2.ipm.ucanr.edu/agriculture/.

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LEGAL PEST MANAGEMENT PRACTICES FOR CANNABIS GROWERS IN CALIFORNIA

Department of Pesticide Regulation

PESTS OF CANNABIS IN CALIFORNIA

Cannabis pests vary according to cultivar (variety), whether the plants are grown indoors or outdoors, and where the plants are grown geographically. The pests included in this review are preliminary and based on the following sources: a presentation given in 2013 by Whitney Cranshaw, an extension entomologist at Colorado State University, and a review article by John M. McPartland, a professor of family medicine at the University of Vermont. We also received input from Kevin Hoffman, former Primary State Entomologist, California Department of Food & Agriculture (CDFA).

PRODUCTS THAT CAN BE LEGALLY APPLIED TO CANNABIS PRODUCTS IN CALIFORNIA

A pesticide product can legally be applied to cannabis under state law if the active ingredients found in the product are exempt from **residue tolerance requirements'** and the product is either exempt from **registration requirements**² or registered for a use that's broad enough to include use on cannabis.

Residue tolerance requirements are set by U.S. EPA for each pesticide on each food crop and are the amount of pesticide residue allowed to remain in or on each treated crop with "reasonable certainty of no harm." Some pesticides are exempted from the tolerance requirement when they're found to be minimal risk.

Active ingredients exempt from registration requirements are mostly food-grade essential oils such as peppermint oil or rosemary oil.

GUIDANCE TABLES

Pages 4-8 include tables that provide guidance to cannabis growers seeking information on legal pest management practices in California.

Table 1 lists examples of active ingredients that fit these criteria. This is not an exhaustive list of active ingredients that may fit the legal use criteria. **Note** that DPR does not track products that fit the criteria and the user bears the responsibility for ensuring product labels meet the criteria.

Tables 2 and 3 list pests of cannabis grown outdoors and indoors, and Table 3 shows pests arranged by the portion of the plant they attack. An explanation of the column labels for Tables 2 and 3 follow.

PESTS. The tables show the most likely pests in California based on Cranshaw's presentation and McPartland's list and gleaned from California-based web sites and blogs. Some pests that drew attention on several blogs (e.g., russet mites) may be worse during drought years. Many pests have cyclic population fluctuations and others are mainstays of general greenhouse cultivation (e.g., whiteflies, thrips, and fungus gnats). We'll add weeds to this compendium when we have more information.

DAMAGE. For damage caused by greenhouse pests, we used information from Cranshaw's presentation; for that of outdoor pests when there wasn't any overlap, we used McPartland's list and information from UC IPM for various crops. Accounts of damage by rodents are anecdotal.

PESTS NOT OFFICIALLY IDENTIFIED IN CALIFORNIA
Several cannabis pests in other states are not yet

known in California. These pests would add to the russet mites, aphids, cutworms, budworms, borers, and flea beetles already in California. As more and more cannabis is planted throughout the state, collecting potential pests will enable entomologists to identify new species.

THE IMPORTANCE OF CORRECT IDENTIFICATION. It's essential to identify the potential pest or you may launch a futile program for a mite or insect that isn't a pest. And likewise, you need to know the correct species or you may use the wrong management strategy. For accurate identification, bring specimens to an entomologist.

HOW TO PRESERVE SPECIMENS FOR IDENTIFICATION. If the insect specimen is hard bodied (e.g., a beetle or moth), carefully place it in a small pill vial and cushion with crumpled tissue paper. If your specimen isn't yet dead, put it in a jar and place in a freezer overnight. Do not wrap specimens in tissue and seal them in plastic bags or you'll end up with smashed bug parts.

Place soft-bodied specimens (e.g., mites, leafhoppers, aphids, caterpillars) in a jar filled with rubbing alcohol.

VERSION: October 9, 2017

¹ 40 C.F.R., § 180, et seq.

² under FIFRA section 25(b) and 3 CCR section 6147.

Include written information such as where on the plant you found the specimen, the general location of the plant, and date captured. Note original color and texture, since these will change once you immerse the specimen in alcohol. Also helpful are photographs of the specimen in its original habitat.

IPM PRACTICES. Most of these are standard practices for pests on plants other than cannabis. For more detailed explanations, see information compiled by the University of California Statewide IPM Program (UC IPM) at www.ipm.ucdavis.edu. You can enter a pest name in the search box (e.g., cutworm) and read about IPM practices for the pest on crops other than cannabis. For cannabis grown indoors, go to the UC IPM home page, click on Agricultural Pests and scroll down the alphabetical list until you reach ornamental nurseries.

Some practices were excluded because they apply to nearly all of the pests. For example, when targeting aphids, whiteflies, and thrips on crops grown outdoors, growers can attract predaceous and parasitic arthropods by planting strips or borders of cover crops (e.g., California buckwheat) and insectary plants—especially those in the carrot, mustard, and sunflower families (Pickett & Bugg, 1998).

LEGAL PESTICIDES. These are covered above in the Table 1 description and are exempt from residue tolerance requirements and either exempt from registration requirements or registered for a use that is broad enough to include use on cannabls.

REFERENCES

Cranshaw, Whitney. 2013. Challenges and opportunities for pest management of medical marijuana in Colorado. Presentation.

McPartland, J.M. 1996. *Cannabis* pests. J. Internatl. Hemp Assoc. 3(2): 49, 52–55.

Pickett, C.H. & R.L. Bugg, eds. 1998. Enhancing Biological Control: Habitat management to promote natural enemies of agricultural pests. UC Press, Oakland, Calif.

Table 1. Active ingredients that are exempt from residue tolerance requirements^a and either exempt from registration requirements^b or registered for a use broad enough to include use on cannabis. [updated on September 22, 2017]

	ACTIVE INGREDIENT	PEST OR DISEASE
1	azadirachtin ^a	aphids, whiteflies, fungus gnats, leafminers, cutworms
2	Bacillus amyloliquefaciens strain D747 ^{a1}	root and crown diseases, powdery mildew, Botrytis
3	Bacillus subtilis QST ^{a1}	root diseases, powdery mildew
4	Bacillus thuringiensis ^{a4} subsp. kurstaki	moth larvae (e.g., cutworms, budworms, borers)
5	Bacillus thuringiensis a4 subsp. israelensis	fly larvae (e.g., fungus gnats)
6	Beauveria bassiana ^{a5}	whiteflies, aphids, thrips
7	Burkholderia spp. strain A396 ^{a4}	mites, leafhoppers, aphids, whiteflies, thrips, moth larvae
8	capsaicin ^a (= capsicum oleoresin)	repellent (insects + vertebrates); mites, leafhoppers, whiteflies, thrips, moth larvae
9	castor oil b	repellent (moles, voles, gophers)
10	cinnamon, cinnamon oil ^b	slugs and snails, mites, leafhoppers, aphids, whiteflies, moth larvae
11	citric acid ^b	bacteria, fungi, mites, insects
12	cloves and clove oil ^b	bacteria, fungi
13	corn oil ^b	fungi, mites, insects
14	cottonseed oil ^b	fungi, mites, insects
15	garlic and garlic oil ^b	mites, leafhoppers, aphids, whiteflies, moth larvae
16	geranioi ^b	fungi, rodent repellent, mites, insects
17	Gliocladium virens ^{a2}	root diseases
18	horticultural oils ^a (petroleum oil)	mites, aphids, whiteflies, thrips, powdery mildew
19	insecticidal soaps ^a (potassium salts of fatty acids)	aphids, whiteflies, cutworms, budworms
20	iron phosphate ^a , sodium ferric EDTA ^a	slugs and snails
21	Isaria fumosorosea ^{a5} *	mites, aphids, whiteflies, thrips
22	neem oil ^a	mites, powdery mildew
23	peppermint, peppermint oil ^b	bacteria, fungi, mites, leafhoppers, aphids, whiteflies, moth larvae
24	potassium bicarbonate ^a ; sodium bicarbonate ^a	powdery mildew
25	potassium silicate ^a	powdery mildew, mites, aphids
26	potassium sorbate ^b	fungi, mites, insects

27	predatory nematodes ^a	fungus gnats
28	putrescent whole egg solids b	squirrel, rabbit, and deer repellent
29	rosemary, rosemary oll ^b	bacteria, fungi, leafhoppers, aphids, whiteflies, moth larvae
30	sesame and sesame oil ^b	mites, leafhoppers, aphids, whiteflies, moth larvae
31	sodium chloride ^b	[minor active ingredient in some fungicide and insecticide formulations]
32	soybean oil ^b	mites, insects
33	Reynoutria sachalinensis extract ^{a3}	powdery mildew
34	sulfur ^a	mites, flea beetles
35	Trichoderma harzianum ^{a2}	root diseases
36	thyme oil ^b	mites, leafhoppers, aphids, whiteflies, moth larvae

^a 40 CFR (Code of Federal Regulations)

^b FIFRA §25(b) and 3 CCR §6147 [FIFRA = the Federal Insecticide, Fungicide, and Rodenticide Act;
CCR = California Code of Regulations]

^{*}Isaria fumosorosea was formerly Paecilomyces fumosoroseus

¹ Bacterial-based fungicide

² Fungal-based fungicide

³ Plant-based fungicide

⁴ Bacterial-based insecticide

⁵ Fungal-based insecticide

Table 2. PEST MANAGEMENT PRACTICES FOR CANNABIS GROWN OUTDOORS

PEST	DAMAGE	IPM PRACTICES (monitoring; cultural, physical, mechanical, biological)	PESTICIDES	
MITES & INSECTS				
two-spotted spider mites Tetranychus urticae (and other Tetranychidae) Suck plant sap; stipple leaves		 Keep dust down by hosing off plants (if dust is a problem) Release predatory mites 	neem oil, horticultural oil	
broad mites Polyphagotarsonemus latus Distort leaves and buds		 Inspect plants; disinfest or dispose of infested plants Release predatory mites and sixspotted thrips 	_	
russet mites Suck plant sap; kill Aculops spp. leaves and flowers		Release predatory mites	neem oil, horticultural oil, sulfur	
crickets (field & house) Eat seedlings		Use floating row covers or cones on individual plants	_	
termites Eat roots		■ Flood nests	_	
leafhoppers Suck plant sap; weaken plants		Encourage natural enemies by planting nectar sources	horticultural oil or insecti- cidal soaps for nymphs	
whiteflies Trialeurodes vaporariorum, Bemisia tabaci, B. argentifolii Suck plant sap; weaken plants		 Hang up yellow sticky cards Use reflective plastic mulch 	azadirachtin, horticultural oil, insecticidal soaps, rosemary + peppermint oils, Beauveria bassiana	
thrips Heliothrips haemorrhoidalis, Frankliniella occidentalis, Thrips tabaci Stipple and scar leaves; vector viruses		Hang up yellow or blue sticky cards	horticultural oil, insecticidal soaps, rosemary + pepper- mint oils, <i>Beauveria bassiana</i>	
aphids Myzus persicae, Aphis fabae Suck plant sap; weaken plants		 Hang up yellow sticky cards (alates) Hose off plants azadirachtin, hor oil, insecticidal so Beauveria bassia 		
Bore into roots and Liriomyza spp. leaves		Remove older infested leaves Use biocontrol: release Diglyphus parasitoids	azadirachtin	

	PEST	DAMAGE	IPM PRACTICES (monitoring; cultural, physical, mechanical, biological)	PESTICIDES	
LEPIDOPTERA	cutworms Agrotis ipsilon, Spodoptera exigua (Noctuidae)	Eat seedlings	 Use pheromone traps to detect adults. Remove weeds, which serve as a reservoir for cutworms and other noctuids 	Vegetative stage only: Use Bacillus thuringiensis kurstaki if egg-laying adults found, insecticidal soap; azadirachtin	
LEPID	budworms Helicoverpa zea (Noctuidae)	Eat flowering buds	 Shake plants to dislodge larvae Remove infested buds Plant corn as trap crop 	Vegetative stage only: Use Bacillus thuringiensis kurstaki, insecticidal soap	
COLEOOPTERA	flea beetles (Chrysomelidae)	Bore into stems (grubs); feed on seedlings and leaves of larger plants (adults)	 Use reflective mulches Plant trap crops (e.g., radish or Chinese mustard) 	sulfur	
COLEC	scarab grubs (Scarabaeidae) possibly other beetles)	Bore into stems	Use parasitic nematodes	_	
MAI	MMALS				
mice	e (e.g., house mice)	Eat young sprouts and seeds	Double wrap a 3'-tall chicken wire fence around plants		
Tall		Strip bark from stems to build nests	Trap (minus rodenticides)Mount barn owl boxes	rodenticides*	
pocket gophers, Thomomys spp.		Tunnel through planting areas; feed on plants; gnaw on irrigation lines	 Install underground fencing (hardware cloth or ¾" mesh poultry wire) Mount barn owl boxes 		
Odo	mbian black-tailed deer, coileus hemionus mbianus	Knock over plants; leave dander, droppings, and ticks behind	Install deer fencing	_	
black bears, Ursus americana Knock over plants		Knock over plants	Install electric fencing	-	

^{*} if using a rodenticide always read and follow the label and check to make sure that the target rodent is listed. Secondgeneration anticoagulant products (contain the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone) are DPR-restricted materials not labeled for field use and should never be used in or around cannabis cultivation sites. Permits for the use of DPR-restricted materials will not be issued to cannabis cultivators. Any federally restricted use pesticide must be applied by a certified applicator consistent with the registered labeling.

Table 3. PEST MANAGEMENT PRACTICES FOR CANNABIS GROWN INDOORS (e.g., greenhouses, sheds, and grow rooms)

(e.g., greenhouses, sheds, an	a Riom tootiis)			
PEST DAMAGE		IPM PRACTICES (monitoring; cultural, physical, mechanical, biological)	PESTICIDES	
DISEASES				
powdery mildew Sphaerotheca macularis	Grow on leaves as white and gray pow- dery patches	Use fans to improve air circulation	horticultural oil; neem oil; sodium bicarbonate, potassium bicarbonate; <i>Bacillus subtilis</i>	
pythium root rots Pythium spp. Attack root tips and worsens when plants grow in wet soil		 Avoid hydroponic production or wet soil conditions 	Incorporate biocontrol agents into root-growing media (e.g., Gliocladium virens, Trichodermo harzianum, Bacillus subtilis)	
MITES & INSECTS				
two-spotted spider mites Tetranychus urticae (and other Tetranychidae)	Suck plant sap; stipple leaves	 Disinfest cuttings before introducing to growing area Release predatory mites (Amblyseius spp., Phytoseiulus persimilis), or lacewings (Chrysoperia spp.) 	neem oil, horticultural oil, sulfui	
broad mites	Distort leaves and buds	 Inspect plants; disinfest or dispose of infested plants Release predatory mites (Amblyseius spp.) and six-spotted thrips 		
leafhoppers	Suck plant sap; weaken plants	Encourage natural enemies by planting nectar sources	horticultural oil or insecticidal soaps for nymphs	
whiteflies Trialeurodes vaporariorum, Bemisia tabaci, B. argentifolii Suck plant sap; weaken plants		 Hang up yellow sticky cards Use biocontrol: Amblyseius swirskii, Encarsia formosa, Delphastus catalinae, Steinernea feltiae 	azadirachtin, <i>Beauveria</i> bassiana, cinnamon oil, horticultural oil	
thrips Heliothrips haemorrhoidalis, Frankliniella occidentalis, Thrips tabaci	Stipple and scar leaves; vector viruses	 Sterilize soil and pots before growing Hang up yellow or blue sticky cards Use biocontrol Stratiolaelaps scimitus, Amblyseius cucumeris, Amblyseius swirskii, Orius insidious 	azadirachtin, horticultural oil, insecticidal soaps, rosemary + peppermint oils, <i>Beauveria</i> bassiana	

PEST	DAMAGE	IPM PRACTICES (monitoring; cultural, physical, mechanical, biological)	PESTICIDES
rice root aphid Rhopalosiphum rufiabdominalis	Feed on roots; stunt and weaken plants	 Dispose of weakened infested plants Mix in sharp soil amendments such as diatomaceous earth Use biocontrol: Stratiolaelaps scimitus, Dalotia coriaria, Steinernema feltiae 	Beauveria bassiana
dark-winged fungus gnats (Diptera: Sciaridae) Bradysia spp. Damage roots and stunt plant growth		 Avoid overwatering Use growing media that deters gnat development Hang up yellow sticky cards Use biocontrol: Stratiolaelaps scimitus, Dalotia coriaria, Steinernema feltiae 	Bacillus thuringiensis israelensis (BTI); predatory nematodes; azadirachtin soil drenches

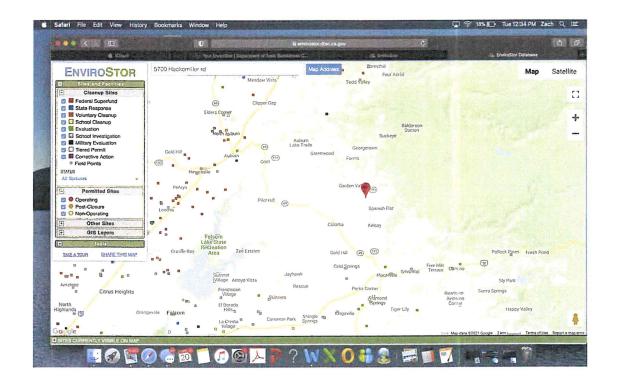
WASTE DISCHARGE PROGRAM ENROLLMENT:

Water discharge program enrollment will take place upon acceptance of application per instructions from the county.

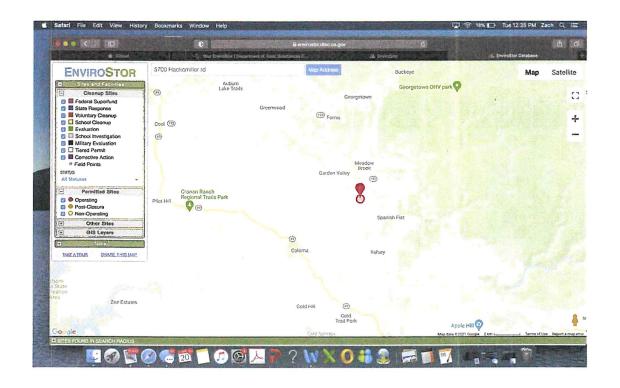
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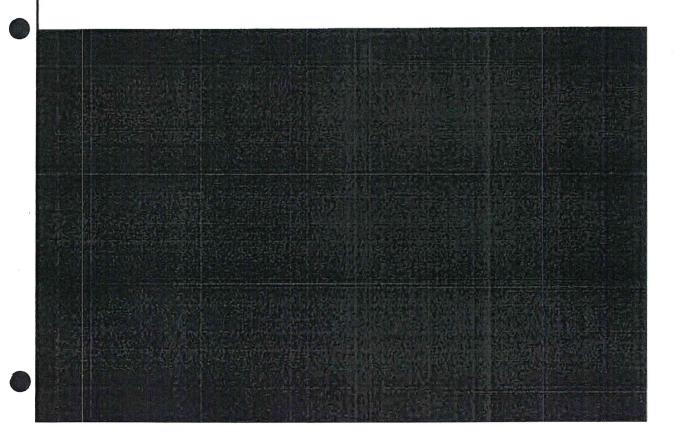
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CCUP22-0003



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WELL DRILLING INSPECTION REQUEST	
PERMIT # 5362	
NAME: KEE DATE: 8/21/07	(6017)
LOCATION: 5'100 HACKOMILLER RD (145) ADDILLER	SECUATE)
REQUESTED BY: DAVE DRILLER: AYROW 957-02	19
$\{ \}$ MOVE-ON $\{ \ \ \ \ \ \ \}$ WELL SEAL $\{ \ \ \}$ DESTRUCTION	
{ X } APPROVED { } DISAPPROVED	
CASING DEPTH: 34' SEAL DEPTH: 25	
# OF BAGS & MATERIAL: bag lentonite, 60th bay cone note mix (24 bags)	
REMARKS:	
hatitude 38.834.30 Longitude 120.83460 Elevation 1919	
RE.H.S.: Vaul Google DATE: 8-21-07	



ORIENT. DEPTH SURI FI. 8 0 3 10 38 39 53	o PL		RIPTION	(SPECIFY)			-MET I CHIMPE		
5URI F1. to 0 ,3 10 38 39	o PL	DESC Describe malerial	RIPTION		Name Mailing Address	John & Dana RO			
0 ,3 10 38	,3		grain size, color, e	lc.	CITY	Garden Valley	CA STATE	95633 ZIP	-
,3 10 38 39		Topsoil					WELL LOCATION		-
10 38 39					Address 5700 He	sckomiller Rd			
38 39	10	Brown Slate			City Gerden	Valley			
39	38	Gray Slate			County EL I	DORADO			
1	39	FX	-	•	APN Book	Page	Percel	088-020-84	
53	53	GR SII			Township 11N	Ranga	10E Section	2	
	54	FX			LatitudeI	I HORTIS	Longitu		, we
54	82	GR SII .			D89.			DEG. MIN.	HEC.
82	83 .	FX							
83	124	GR SX				-LOCATION SKE	TCH		MITY M-
124	125	FX				NORTH	. 1	III NEWW	
125	173	GR SII			11 1	1	HACIONI		TION/REPAIR
173	174	FX			Times	,			Despen
174	169	GR SIL			594	.5	141	la c	Other (Specify
1	190	100000000000000000000000000000000000000			11 57		1101	[
189	1	FX			11		16	* DESTRE	OY (Describe
190	. 251	GR SK			11		//	Production	e and Materials EOLOGIC LOG
251	1252	EX			16	45	, , ,	PLANK	(ED,USE(S)
252	201	GR St			WES .		well 3	MONITO	RING
261	262	FX					الم الم	WATER BUI	
262	400	Gray State				297	Q 79	// -	omestic
	1							/ '	
1 1		Į.			1	A	129 2	E4 Dim	
1 1		Total 40 GPM				_	10 77	1000	figation
1		1 Total 40 GPW			1	1 7	sepac /		dustriai
		ì				$f \rightarrow H$	I /	TEST W	ELL"
		1				SOUTH	/FI /	CATHOL	DIC PROTEC
	i				Marketin or Desertin Disk matters Product Buildings,	Bustonia or Devestion Distancia of treat turn Luminosity and on Rivers, Building, France, Rivers, etc. FLANCE ROCKMATE CONFIDENCE. GAND TON TON TON TON TON TON TON T			
	į	1			DRILLING ROTARY STUD WATER				
. 1	,						EL & YIELD OF COMPLI	EYED WELL	
i l					DEPTH OF STAT	TC 18	(Ft) & DATE MEAS	URED 6-22-200	7
	i				ESTIMATED YIE	De :40	(GPM) & TEST TYPE		
					TEST LENGTH		(Hrs.) TOTAL DRAV		(Ft.)
	1.0	oo (Feet)						POITI.	(1-1.)
TOTAL DE	PTH OF COMPLETED	WELL 400	(Feet)		May not be repre	sentative of a well	z iong-term yield.		
				CASING(S)			DEPTH	ANNULAR MA	
DEPTH FROM SURF	ACE HOLE	TYPE (V)	MATERIAL	INTERNAL	GAUGE	SLOT SIZE	FROM SURFACE	E- BEN-	FU TER PA
FL to	DIA	3 8 6 3 3	GRADE	DIAMETER (inches)	OR WALL THICKNESS	(inches)	EI IN EI ME	NTTONTE FILL	(TYPE/SD
T		0000	010	-			1		1 0
+1 34	10-5/8		PVC / blank	6	F480	0	0 26		11
0 10	0 6	000000	PVC / bleńk	4	F480	:0		00000	H
100 40		0000	PVC / screen	1 4	F480	1/16			
1	11	l lala lala l			1	i i		110 110	
	ATTACHMENTS	<u> </u>		<u> </u>	CERT	TEICATION STATE	EMENT -		
Ger	logic Log	- 1/41	1	I, the undersigned	certify that this report	is complete end ac	courate to the best of my k	nowledge and bel	liaf.
☐ Well	Construction Diagram ophysical Log(s)		1	ARROW WELL	DRILLING 434	40 Leisure Lar	ne		. 4
Geo	slogic Log Il Construction Diegram ophysical Log(s) Water Chemical Analys or	es				cerville CA 9			
	™ : NTIONAL INFORMATIC	1	I	£	b ~ ===================================	2	8-23-0	1 453362	
AT TAUR AUD	TOWAL INFURMATIO	WIF 11 EXISTS.	Signed	WELL DRILLERIALD	HORIZED REPRESEN	TATIVE	DATE SIGNED	_	NSE NUMBE
			-	· Market Cold	The latest the latest to the l		Maria Maria	- William	- Harris
									1,23

EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT

DIVISON OF ENVIRONMENTAL HEALTH 2850 FAIRLANE CT. PLACERVILLE CA 95667 (530) 621-5300

REPORT OF WELL PRODUCTION

(For Building Permit approvals, form must be original wet stamp)

		John & Dana ROE TRU	ST 2002		
	ACIDITICOS DE DVINITA	5700 Hackomiller Rd		manual 17 desprey 17 describes	
e. -	-	Garden Valley	CA	95633	
	LOCATION FOR PREPARED	5700 Hackomiller Rd			
		Garden Valley	CA	95633	
	ASSEDBAGES PARCES	088-020-84	WELL PERMIT	5362	
	Name of four (4) hour we Date Partormed. 8-22-20	The second of th	L DRILLER OR PUM	P CONTRACTO	R
	Was test performed with a	pump installed?:	Yes	or No_	х
	Country smalls 400	e e	Static water level:	18	ft.
	Diameter of well casing:	6	in.		
	I HEREBY CERTIFY THAT THE BEST OF MY KNOWL		ATION IS TRUE AND	CORRECT TO	
		DAVIDE	EDAULS F	ARROW WELL D 1340 Leisure Lan Placerville CA 98 530-621-66 53362	ie 5667-7873

***WELL DRILLER MUST PROVIDE PLOT PLAN ON NEXT PAGE and COMPLETE BOTTOM PROTION IF WELL PRODUCTION IS LESS THAN 5 GPM.

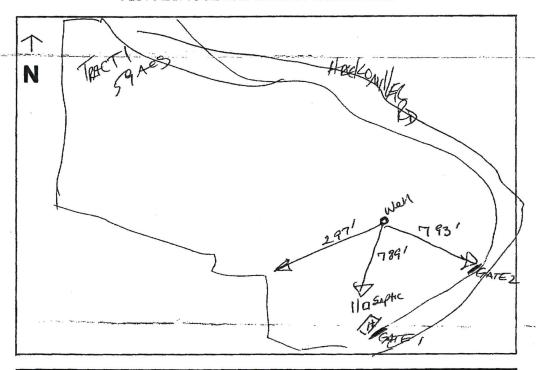
8-23-07

ÉL^{*}DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT DIVISON OF ENVIRONMENTAL HEALTH 2850 FAIRLANE CT. PLACERVILLE CA 95667 (630) 621-5300

REPORT OF WELL PRODUCTION

(For Building Permit approvals, form must be original wet stamp)

PLOT PLAN TO BE COMPLETED BY WELL DRILLER



IF WELL PRODUCTION RATE IS LESS THAN 5 GPM:

5 gpm x 240 m	5 gpm x 240 min. = 1,200 galleons required				
40	x 240 min. =	9600			
Production Rate	P	gallons produced			
Storage credit in well shaft		gallons (per well driller)			
gallon	s of additional	storage required.			

EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT

DIVISON OF ENVIRONMENTAL HEALTH
2850 FAIRLANE CT.
PLACERVILLE, CA 95667
(530) 621-5300

REPORT OF WELL PRODUCTION

(For Building Permit approvals, form must be original wet stamp)

OWNER OF PROPERTY:	John Roe
ADDRESS OF OWNER:	5700 Hackamiller-RJ.
LOCATION OF PROPERTY:	Farden Valley (a. 95633 5700 Hackamitter Rd Garden Valley (a. 96633
ASSESSOR'S PARCEL#: <u>088</u>	5-020-89 Building #218467
TO BE COMPLETED Result of four (4) liour well produce Date Performed: 7/30	
	installed?: Yes X or No
	ft. Static water level N/H ft.
Diameter of well casing:	
THEREBY CERTIFY THAT THE THE BEST OF MY KNOWLEDG	Test performed by: De PAIS DE TUBE AND CORRECT TO GE. State License Number: 832719
***WELL DRILLER MUST PRO PORTION IF Y	OVIDE PLOT PLAN ON NEXT PAGE and COMPLETE BOTTOM WELL PRODUCTION IS LESS THAN 5 GPM.

EL DORADO COUNTY ENVIRONMENTAL MANAGEMENT DEPARTMENT

DIVISON OF ENVIRONMENTAL HEALTH 2850 FAIRLANE CT. PLACERVILLE, CA 95667 (530) 621-5300

REPORT OF WELL PRODUCTION

(For Building Permit approvals, form must be original wet stamp)

OWNER OF PROPERTY:	John Roe
ADDRESS OF OWNER:	5700 Hackamiller Rd.
	Garden Valley Ca. 95633
LOCATION OF PROPERTY:	5700 Hackamiller Rd
	Garden Valley Ca. 95633
assessor's parcel#: <u>08</u>	8-030-84 Building #28467
TO DE COMPLETE	D BY WELL DRILLER OR PUMP CONTRACTOR
TO DE COMPLESE	PBI WEEL-DRIDLER ON TOME COVERACION
Result of four (4) hour well produ	uction test: 35 gpm.
Date Performed: 7/30) \ 2013
Was test performed with a pump	installed?: Yes or No
Depth of well: N/A	ft. Static water level N/A ft.
Diameter of well casing:	6 in
The same place of the control of the	HE ABOVE INFORMATION IS TRUE AND CORRECT TO
THE BEST OF MY KNOWLED	
	Test performed by: Dennis DMI Many Ser
	[1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1. [1] 1
	State License Number: 832719.



Deborah Presley <deborah.presley@edcgov.us>

El Dorado County Appointment Confirmation

: message

noreply@ttmail.timetrade.com <noreply@ttmail.timetrade.com>

Mon, Jul 29, 2013 at 12:19 PM

Reply-To: emapptconf@edcgov.us, deborah.presley@edcgov.us, deana.howey@edcgov.us, vicki.hallas@edcgov.us To: Bill Mitchell <wheeldongeology@gmail.com>

Thank you for booking an appointment with El Dorado County . The details of your appointment are shown below.

Client: Bill Mitchell

Program: Environmental Management

Service: Test Trench

Primary Resource: Environmental Management - Septic/Trench

Date: Thursday, August 01, 2013 - MANAM

Duration: 2 hrs

Confirmation: VR543P78

Questions

Test Trench: yes

Permit number: 6207

Open Trench or Final: no

APN: 088-020-84-100

Site Location: 5700 HACKOMILLER

Installer Name:

Gate Code:

To return to the EI Dorado County appointment book, click the underlined link below. If your email system does not support URL links, you can copy this link and paste it into your web browser.

https://app.timetrade.com/tc/login.do?url=em.eldorado

rocky, clay, soil

https://mail.google.com/mail/u/0/?ui=2&il=5ff4005f85&view=pt&search=Inbox&th=1402bdf0577b7f0c

1/1

RENEWABLE ENERGY SOURCE:

The property is enrolled in pg&e solar choice program. Additionally rooftop solar will be added to residences located on the property.