

SUPPLEMENTAL INFORMATION #1

For Zoning Administrator Agenda of:
December 3, 2020

- | | | |
|-------------------------------------|------------------------|-------------------|
| <input checked="" type="checkbox"/> | Consent Agenda Item | <u>C-3</u> |
| <input type="checkbox"/> | Continued Hearing Item | |
| <input type="checkbox"/> | Public Hearing Item | |
| <input type="checkbox"/> | Department Report | |
| <input type="checkbox"/> | Old Business | |

Re: Homestead Weed Collective Company, LLC, Special Permits

Record Number: PLN-12237-SP
Assessor Parcel Number: 217-401-011
5576 Homestead Road, Blocksburg area

Attached for the Zoning Administrator's record and review is the following supplementary information items:

1. Letter from Kyle S. Wear regarding Relocation of the Cultivation Area in Pond Setback on APN: 217-401-011.
2. Aquatic Resources Delineation prepared by Kyle S. Wear dated August 2020.
3. State Water Resources Control Board Cannabis Cultivation Policy dated April 16, 2019.
4. Photograph submitted by applicant.
5. Photograph submitted by applicant.
6. Photograph submitted by applicant.
7. Letter from California Department of Fish and Wildlife dated October 7, 2020, regarding the Notification of Lake or Streambed Alteration No. 1600-2018-649-R1.
8. Staff cost report.
9. Emails from applicant requesting documents be provided to the Zoning Administrator dated December 2, 2020.



Kyle S. Wear
Botanical Consultant

3484 Zelia Court
Arcata, CA 95521
(707) 601-1725
kyle_wear@suddenlink.net

Brian Roberts
P.O. Box 244
Blocksburg, CA 95514

RE: Relocation of the Cultivation Area in Pond Setback on APN: 217-401-011

Brian,

The aquatic resources delineation conducted in July identified approximately 368 square feet of the cultivation area within the 100-foot setback of the instream pond. You have indicated the County has required the cultivation area within the setback to be relocated and remediation of the area be developed if necessary.

Based on my observations during the site visit and the photos you have provided, the site does not need any significant remediation. The area has not been graded and the plants are growing in amended native soil. The grow boxes are simply used to delineate square footage and are not filled with soil. Because the soil profile is not disturbed, the natural soil seedbank should provide sufficient natural recruitment of species present before the site was developed and consistent with the species composition of the adjacent grassland.

The follow measures are recommended to restore the site:

- Remove all cultivation related materials after the fall harvest including the boxes and any other materials such as amendments or pesticides. It is not necessary to remove the fence.
- Mulch exposed soil with a thin layer of straw leaving some exposed soil. Too much mulch could prevent seed germination.
- Physically measure from the top of the bank of the pond (not the water level) to the ensure all the cultivation is over 100-feet from the pond. There is error in the base NAIP image and GPS used to estimate the square footage within the buffer.
- Conducted these tasked immediately after fall harvest so the site will not be disturbed once the rainy season begins to facilitate maximum natural revegetation.

Please let me know if you have any questions or need additional information.

Sincerely,

Kyle Wear



Aquatic Resources Delineation

Homestead Collective Weed Company
(APN: 217-401-011)

Prepared by:

Kyle Wear
Botanical Consultant
kyle_wear@suddenlink.net
(707) 601-1725

Prepared for:

Brian Roberts
P.O. Box 244
Blocksburg, CA 95514

Date:

August 2020

1. INTRODUCTION

This report includes the results of an aquatic resources delineation conducted on APN: 217-401-011 near Blocksburg. The purpose of the study was to identify wetlands and other aquatic resources and establish required setbacks from cannabis cultivation. This fulfills the request in the September 16, 2019 letter from the California Department of Fish and Wildlife (CDFW) for a wetland delineation. A parcel overview map is provided in Appendix A.

2. DEFINITIONS

Waters of the United States

Waters of the United States are regulated by the Army Corps under the Clean Water Act. Waters of the United States include, but are not limited to, territorial seas, waters used for interstate or foreign commerce and their tributaries, and waters adjacent to the aforementioned, including wetlands.

Army Corps jurisdiction in waters such as creeks and rivers includes the area below the ordinary high water mark, which is the line on the bank established by fluctuations of water that leave physical characteristics such as a distinct line on the bank, shelving, destruction of terrestrial vegetation, and presence of debris.

The Army Corps defines wetlands as:

“... areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal conditions do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.”

Waters of the State

Waters of the state are regulated by the State Water Resources Control Board (Water Board) under the Porter-Cologne Water Quality Control Act. Waters of the state are defined as:

"... any surface water or groundwater, including saline waters, within the boundaries of the state."

Waters of the State includes water in both natural and artificial channels.

The Water Board's definition of a wetland is:

“An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.”

Streamside Management Areas

The Humboldt County General Plan (Humboldt County 2017) recognizes Streamside Management Areas (SMAs) along all streams, which are defined as:

“100 feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of perennial streams.”

“50 feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of intermittent streams.”

3. ENVIRONMENTAL SETTING

Project Location

The parcel is located off Homestead Road approximately 2.3 miles west of Blocksburg on the Blocksburg USGS quadrangle (Section 24, T2S, R4E) in Humboldt County (Figure 1).

Soil, Topography, and Hydrology

The soil on the parcel is mapped as Burgsblock-Coolyork-Tannin complex, 30 to 50 percent (United States Department of Agriculture, Natural Resource Conservation Service (NRCS) 2020). The soil type is derived from sandstone, mudstone, and schist parent material. The soil type and its minor components have non-hydric soil ratings. The parcel is on an approximately 35% generally south facing slope. The elevation ranges from approximately 700 to 1,300 feet above sea level. The parcel includes Basin Creek and three of its tributaries. Basin Creek is a tributary of the Eel River. The parcel also includes an instream pond.

4. METHODS

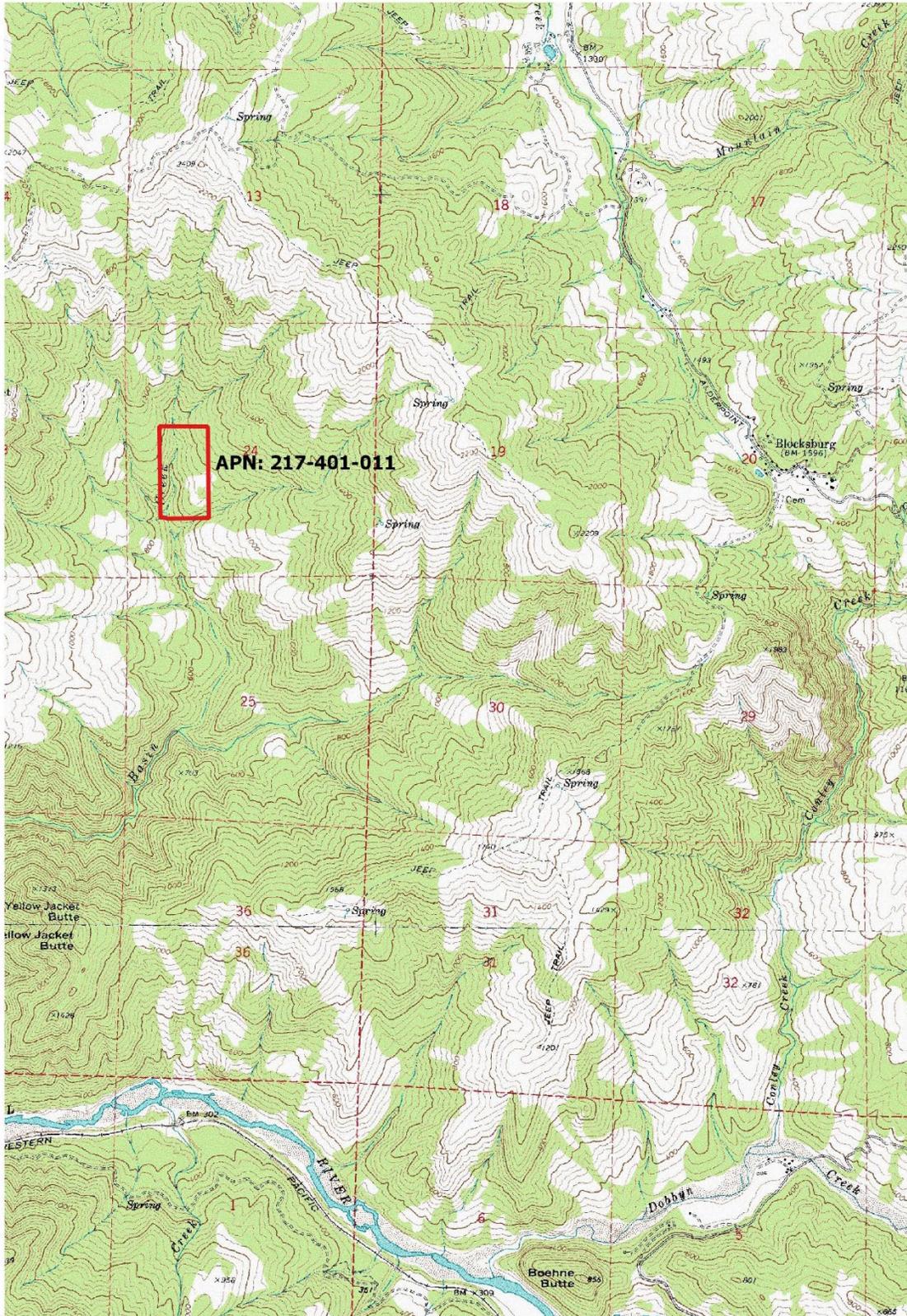
Wetlands

The wetland delineation was conducted by Kyle Wear, M.A. Mr. Wear has over 20 years of experience conducting floristic surveys and other botanical work in northern California and over ten years of experience conducting wetland delineations. Mr. Wear is also completed the 5-day Wetland Training Institute wetland delineation course. The study area includes the pond and watercourses within 200 feet of the cultivation area.

Federal, State, and County wetland delineation methods follow the *1987 Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual Western Mountains, Valleys, and Coast Region (Version 2.0)* (Army Corps 2010). A positive wetland determination is made when all three wetland parameters (hydrophytic vegetation, hydric soil, and wetland hydrology) are present.

Three representative sample plots were evaluated for hydrophytic vegetation, hydric soil, and wetland hydrology. The plots represent the variation in topography and vegetation in the study

Figure 1. Location Map.



area that were appurtenant to the location of the cultivation area and establishment of setbacks. Wetland determination data forms are provided in Appendix B.

Hydrophytic Vegetation

The presence of hydrophytic vegetation is determined by the wetland indicator status of each plant species present using the *Western Mountains Valleys and Coast 2016 Regional Wetland Plant List* (Army Corps 2016). The indicator status of plants is based on the estimated probability of the species occurring in wetlands. The indicator status categories are:

Obligate Wetland Plants (OBL)	Almost always occur in wetlands	>99% frequency
Facultative Wetland Plants (FACW)	Usually occur in wetlands	67%-99%
Facultative Plants (FAC)	Equally occur wetlands and non-wetlands	33%-67%
Facultative Upland Plants (FACU)	Sometimes occur in wetlands	1%-33%
Obligate Upland Plants (UPL)	Rarely occur in wetlands	<1%

If more than 50% of the dominant plants across all vegetation strata (i.e. trees, shrubs, herbs) are OBL, FACW, or FAC, the vegetation is considered to be hydrophytic. Dominance of plants within the plots is determined using the “50/20” rule. This method involves estimating absolute cover of each plant in each vegetation stratum. Dominant plants include the plants with the highest cover that collectively or individually account for 50% of the total vegetation cover. Additional plants are considered dominant if their cover is at least 20%.

Hydric Soil

Indicators of hydric soil include, but are not limited to, a strong hydrogen sulfide (rotten egg) odor, redox concentrations, depleted matrix, and high organic matter content. Soil colors are determined by using a standard Munsell soil color chart (Gretag Macbeth 2000).

Wetland Hydrology

Indicators of wetland hydrology include, but are not limited to, surface water, high water table, soil saturation, sediment deposits, soil cracks, and oxidized root channels along living roots.

Other Aquatic Resources

Other aquatic resources include streams, rivers, ponds, lakes, and other waterbodies with an ordinary highwater mark and any adjacent riparian habitat.

5. RESULTS AND DISCUSSION

Aquatic features identified in the study area include a small wetland (approximately 100 square feet), two ephemeral streams, and the pond (Figure 2). There are additional areas that have hydrophytic vegetation, but do not meet the three-parameter wetland definition.

Representative photos are provided in Appendix C.

Emergent Wetland

The small wetland is near the base of the pond levee. The wetland has hydrophytic vegetation dominated by spreading rush (*Juncus patens* [FACW]) and poison oak (*Toxicodendron*

Figure 2. Aquatic Resources Map.



diversilobum [FAC]). Other plants include pennyroyal (*Mentha pelugium* [OBL]), lady fern (*Athyrium filix-femina* [FAC]), and velvet grass (*Holcus lantana* [FAC]). There is a tree canopy over the wetland, but the trees are not rooted in the feature. The soil color was 10yr 4/1 with distinct and prominent 7.5yr 5/6 redox concentrations; this meets hydric soil indicator F3 (Depleted Matrix). The soil was saturated to the surface. There was also shallow surface water in a portion of the feature. Wetland hydrology indicators present included A1 (Surface Water), A2 (High Water Table), and A3 (Saturation). It was not clear if the water is groundwater or water leaking from the pond above.

Ephemeral Streams

There are two ephemeral streams in the study area. One of the stream flows into the pond, the other runs just east of the pond and receives the pond overflow.

Instream Pond

The pond had surface water and floating and emergent hydrophytic vegetation. Associated plants include pondweed (*Potamogeton* sp. [OBL]), cattail (*Typha latifolia* [OBL]), water plantain (*Alisma lanceolatum* [OBL]), spike rush (*Eleocharis* sp. [OBL or FACW]), and nutsedge (*Cyperus eragrostis* [FACW]). Google Earth images indicate the pond was constructed between 2006 and 2009. The 2006 image shows the stream channel that feeds the pond continuing south through what is now the pond and converging with the eastern stream, although the confluence is obscured by trees (Appendix D). The area appears to be upland other than the streams, with some associated vegetation, possibly spreading rush or stands of coyote brush, although the resolution of the photo is not adequate to make a definitive determination.

Hydrophytic Vegetation

Approximately 5,008 square feet of area adjacent to the ephemeral streams has hydrophytic vegetation but lacks indicators of hydric soil or wetland hydrology. These areas are generally dominated by spreading rush (*Juncus patens* [FACW]). Other associated plants include pennyroyal (*Mentha pelugium* [OBL]), sweet vernal grass (*Anthoxanthum odoratum* [FACW]), Italian thistle (*Carduus pycnocephalus* [UPL]), and bull thistle (*Cirsium vulgare* [FACU]). The July site visit was in the dry season and lack of wetland indicators like saturated soil was expected. However, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual Western Mountains, Valleys, and Coast Region (Version 2.0)* (Army Corps 2010) provides many other wetland hydrology indicators that can be used in the dry season. The soil color was 10yr 2/2 with no redox features or other indicators of hydric soil. It is likely these areas are wetter than adjacent areas with non-hydrophytic vegetation during periods with heavy rainfall, but the frequency and duration of soil saturation is not sufficient to create hydric soil, thus these areas do not meet the three-parameter wetland definition.

Upland

The adjacent upland habitat includes grasslands and mixed conifer and hardwood stands. The grasslands are dominated by non-native herbaceous plants including sweet vernal grass (*Anthoxanthum odoratum* [FACW]), rough cat's-ear (*Hypochaeris radicata* [FACU]), and English

plantain (*Plantago lanceolata* [FACW]). There are scattered stands of coyote brush (*Baccharis pillularis* [UPL]). The adjacent mixed conifer and hardwood stands include Douglas-fir (*Pseudotsuga menziesii* [FACU]), California bay (*Umbellularia californica* [FAC]), madrone (*Arbutus menziesii* [UPL]), and California black oak (*Quercus kelloggii* [UPL]).

Setbacks

A 100-foot setback from the pond and 50-foot setbacks from the ephemeral streams are shown in Figure 1. The small wetland is over 130 feet from the cultivation area. Both *Humboldt County General Plan* (Humboldt County (2017) and *Cannabis Cultivation Policy* (State Water Resources Control Board 2019) require 50-foot setbacks from ephemeral watercourses. The pond is constructed, but now includes aquatic habitat that has a connection the adjacent stream. Approximately 368 square feet of the cultivation area is within 100 feet of the pond. The northeast edge of the cultivation area is approximately 85 feet from the top of the bank of the pond. However, there is a road between the cultivation area and the pond, and the cultivation area is on the west side of the ridge (the pond is on the east side), thus any nitrogen rich runoff or other pollutants would move west towards Basin Creek away from the pond. It is the opinion of the consultant that moving a portion of the cultivation area is not necessary to protect the pond. Basin Creek is over 340 feet from the cultivation area.

6. REFERENCES

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experimental Station.
<https://usace.contentdm.oclc.org/digital/collection/p266001coll1/id/4532/>

Gretag Macbeth. 2000. *Munsell Soil Color Charts*. New Windsor, NY

Humboldt County. 2017. *Humboldt County General Plan* (Adopted October 23, 2017). Chapter 10 Conservation and Open Space Elements.
<https://humboldt.gov/205/General-Plan>

State Water Resources Control Board (Water Board). 2019. *Cannabis Cultivation Policy. Principles and Guidelines for Cannabis Cultivation*.
https://www.waterboards.ca.gov/water_issues/programs/cannabis/docs/policy/final_cannabis_policy_with_attach_a.pdf

U.S. Army Corps of Engineers (Army Corps) 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual. Western Mountains, Valleys, and Coast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-3. Vicksburg, MS. Army Corps of Engineer Research and Development Center.
<https://usace.contentdm.oclc.org/utills/getfile/collection/p266001coll1/id/7646>

Army Corps. 2016. *Western Mountains, Valleys, and Coast 2016 Regional Wetland Plant List*. Lichvar, R.W., D.L. Banks, and N.C. Melvin. The National Wetland Plant List: 2016 Update of

Wetland Ratings. Phytoneuron 2016-30: 1-17.

https://www.codot.gov/programs/environmental/wetlands/nwpl_wmvc_2016v1.pdf

United States Department of Agriculture, Natural Resource Conservation Service. 2020. *Web Soil Survey*

<https://websoilsurvey.sc.egov.usda.gov>

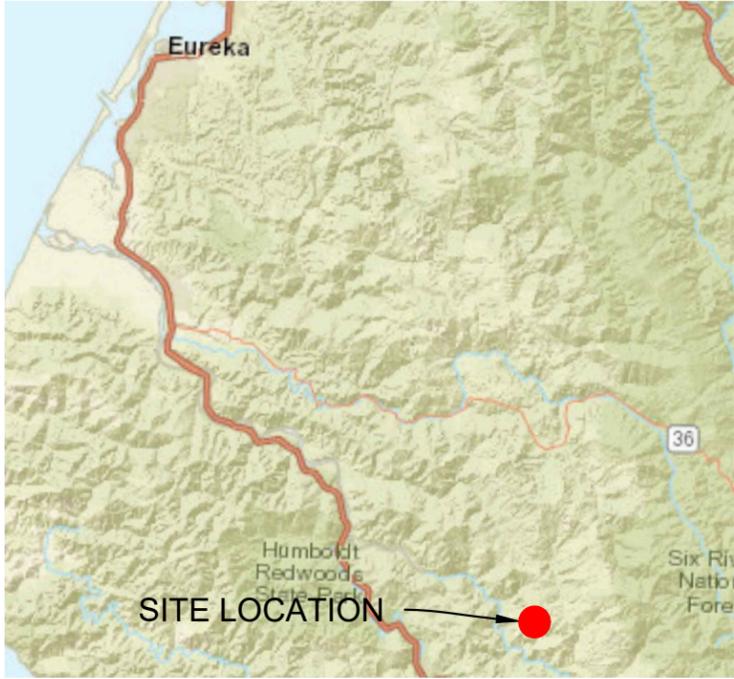
APPENDIX A Parcel Overview Map

THC WEED COMPANY, LLC:

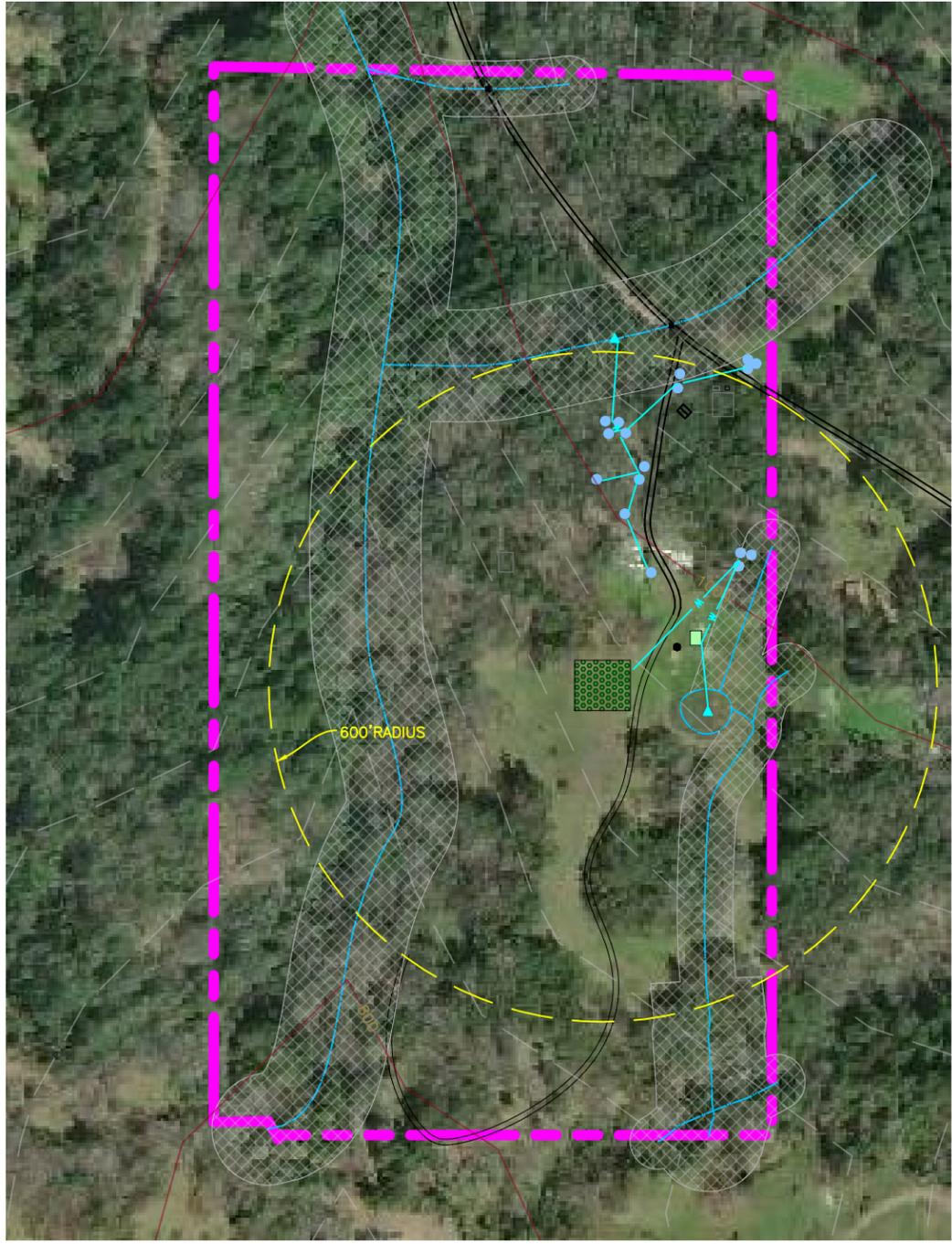
APN: 217-401-011

VICINITY MAP

NOT TO SCALE



AERIAL MAP



PROJECT DIRECTIONS

- FROM: EUREKA, CA
- HEAD SOUTH ON THE U.S. 1015 (20 MILES)
 - TAKE EXIT 685 FOR LA-36E (0.3 MILES)
 - TURN LEFT ONTO LA-36E (24 MILES)
 - TURN RIGHT ONTO ALDER POINT ROAD (18 MILES)
 - TURN RIGHT TOWARD HOMESTEAD ROAD (0.3 MILES)
 - TURN LEFT TOWARD HOMESTEAD ROAD (3.3 MILES)

TRAVEL TIME

APPROXIMATELY: 1HR 45 MINUTES, 66 MILES

SHEET INDEX

- CP-COVER PAGE
- C1-PARCEL OVERVIEW

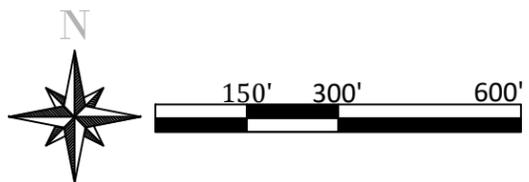
PROJECT INFORMATION

LAT/LONG: 40.2757/-123.6823
 APN: 217 - 401 - 011
 APPLICANT: THC WEED COMPANY, LLC
 PARCEL SIZE: 43.96 ACRES
 ZONING: FR
 APPLICATION TYPE: TYPE 2 OUTDOOR

COASTAL ZONE: NO
 100 YEAR FLOOD: NO

AGENT:

KAYLIE SAXON
 GREEN ROAD CONSULTING INC
 1650 CENTRAL AVE. SUITE C
 MCKINLEYVILLE, CA 95519
 707-630-5041



PROPERTY LINES AND BUILDING LOCATIONS ARE APPROXIMATE AND BASED ON AERIAL MAPS AND GPS DATA TAKEN IN THE FIELD.



PROJECT INFORMATION
 PROPERTY OWNER: BRIAN ROBERTS
 ADDRESS: 5576 HOMESTEAD RD, BLOCKSBURG, CA APN: 217-401-011
 SHEET INFO: COVER PAGE

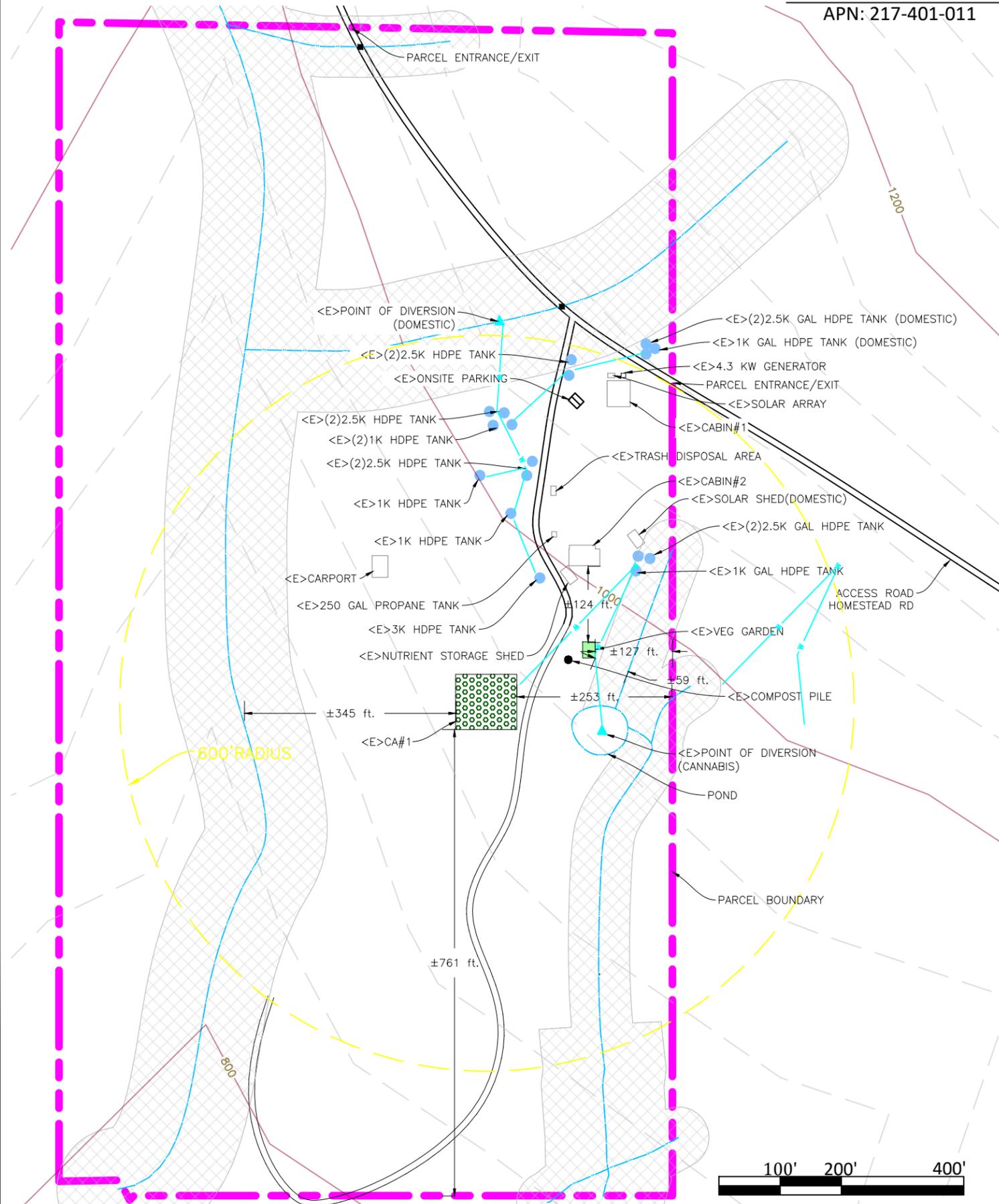
REVISIONS		
NO.	NOTES	DATE

DATE: 7/31/19
 DRAFTER: DV
 SCALE: AS SHOWN

SHEET
CP

PARCEL OVERVIEW

APN: 217-401-011



CULTIVATION INFORMATION

CA	LENGTH	WIDTH	SQ FT
1	100	90	9,000
TOTAL OUTDOOR CULTIVATION AREA =			9,000 SQ FT

CULTIVATION BUILDINGS AND USE

BUILDINGS	USE	SIZE	YEAR
CABIN #1	HARVEST STORAGE/DRYING/PACKAGING	36'x36'	1995
NUTRIENT STORAGE SHED	NUTRIENT STORAGE	10'x20'	1990
CARPORT (TEMPORARY)	HARVEST STORAGE/DRYING	10'x20'	2017

DOMESTIC BUILDINGS AND USE

BUILDINGS	USE	SIZE	YEAR
SOLAR SHED	SOLAR EQUIPMENT STORAGE	10'x10'	1990
CABIN #2	LIVING QUARTERS	24'x36'	1990

WATER STORAGE AND USE

TYPE	USE	QUANTITY	GALLONS	TOTAL GALLONS
HDPE TANK	DOMESTIC	2	2,500	5,000
HDPE TANK	DOMESTIC	1	1,000	1,000
HDPE TANK	CULTIVATION	2	2,500	5,000
HDPE TANK	CULTIVATION	2	2,500	5,000
HDPE TANK	CULTIVATION	2	1,000	2,000
HDPE TANK	CULTIVATION	2	2,500	5,000
HDPE TANK	CULTIVATION	1	2,500	2,500
HDPE TANK	CULTIVATION	1	1,000	1,000
HDPE TANK	CULTIVATION	1	1,000	1,000
HDPE TANK	CULTIVATION	2	2,500	5,000
HDPE TANK	CULTIVATION	1	1,000	1,000
HDPE TANK	CULTIVATION	1	3,000	3,000
TOTAL AMOUNT OF WATER STORAGE =				36,500 GALLONS

WATER SOURCE

TYPE
POND (CANNABIS)
CLASS II STREAM (DOMESTIC)

UNNAMED CLASS II STREAM WITH REQUIRED 100 FT BUFFER
 UNNAMED CLASS III STREAM WITH REQUIRED 50 FT BUFFER

POWER SOURCE

4.3KW GENERATOR
 SOLAR ARRAY

SURROUNDING BUILDINGS

THERE ARE NO SCHOOLS, BUS STOPS, PLACES OF WORSHIP, PUBLIC PARKS OR TRIBAL CULTURAL RESOURCES WITHIN 600 FEET OF THE CULTIVATION SITE.
 THERE ARE NO OFF SITE RESIDENCES WITHIN 300 FEET OF THE CULTIVATION SITE.

LEGEND

	CLASS II STREAM WITH REQUIRED 100 FT BUFFER
	UNNAMED CLASS III STREAM WITH REQUIRED 50 FT BUFFER
	WATER DELIVERY LINE
	WATER CROSSING



PROJECT INFORMATION

PROPERTY OWNER: BRIAN ROBERTS
 ADDRESS: 5576 HOMESTEAD RD, BLOCKSBURG, CA
 SHEET INFO: PARCEL OVERVIEW

REVISIONS

NO.	NOTES	DATE

DATE: 7/31/19
 DRAFTER: DV
 SCALE: AS SHOWN

SHEET
C1



APPENDIX B Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: APN: 217-401-011 City/County: Humboldt Sampling Date: 7-22-20
 Applicant/Owner: Roberts State: CA Sampling Point: 1
 Investigator(s): K. Wear Section, Township, Range: 24, T2S, R4E
 Landform (hillslope, terrace, etc.): ± terrace Local relief (concave, convex, none): none Slope (%): 5%
 Subregion (LRR): A at E44219.3 Long: N 4458538.7 Datum: NAD 83
 Soil Map Unit Name: Burgsblock-Coolyork-Tanning Compl. NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>⊙ Dry Season field work</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
Herb Stratum (Plot size: <u>10'-radius</u>)				
1. <u>Juncus patens</u>	<u>80</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Curdus pycnosephalus</u>	<u>10</u>	<u>N</u>	<u>UR</u>	
3. <u>Anthoxanthum odoratum</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Cirsium vulgare</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
5. <u>Mentha pelugim</u>	<u>2</u>	<u>N</u>	<u>OBL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>102</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>104</u> = Total Cover				
% Bare Ground in Herb Stratum _____ = Total Cover				
Remarks: _____				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 yr 2/2						cl	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Indicators for Problematic Hydric Soils³:

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? Yes _____ No Depth (inches): _____ (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: APW: 217-401-011 City/County: Humboldt Sampling Date: 7-22-20
 Applicant/Owner: B. Roberts State: CA Sampling Point: 2
 Investigator(s): K. Wear Section, Township, Range: 24, T2S, R4E
 Landform (hillslope, terrace, etc.): ± terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A Lat: E 442091.7 Long: N 4458513.8 Datum: NAD 83
 Soil Map Unit Name: Burgs block - Coolfork - Tannin NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes _____	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes _____	No <input checked="" type="checkbox"/>			
Remarks: <u>Dry season field work</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0%</u> (A/B)
4. _____	_____	_____	_____		
= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:	
1. _____	_____	_____	_____	Total % Cover of:	Multiply by:
2. _____	_____	_____	_____	OBL species _____	x 1 = _____
3. _____	_____	_____	_____	FACW species _____	x 2 = _____
4. _____	_____	_____	_____	FAC species _____	x 3 = _____
5. _____	_____	_____	_____	FACU species _____	x 4 = _____
= Total Cover				UPL species _____	x 5 = _____
				Column Totals: _____	(A) _____ (B) _____
				Prevalence Index = B/A = _____	
Herb Stratum (Plot size: <u>10' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>Anthoxanthum odoratum</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	___ 1 - Rapid Test for Hydrophytic Vegetation	
2. <u>Hypochaeris radicata</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	___ 2 - Dominance Test is >50%	
3. <u>Juncus burtanus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	___ 3 - Prevalence Index is ≤3.0 ¹	
4. <u>Hypericum perforatum</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____	_____	_____	_____	___ 5 - Wetland Non-Vascular Plants ¹	
6. _____	_____	_____	_____	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
<u>107</u> = Total Cover					
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?	
1. _____	_____	_____	_____	Yes _____	No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____		
= Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks: _____					

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 3/2						CL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
---	---	---

Field Observations:

Surface Water Present? Yes _____ No Depth (inches): _____

Water Table Present? Yes _____ No Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No Depth (inches): _____

Wetland Hydrology Present? Yes _____ No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: APN: 217-401-001 City/County: Humboldt Sampling Date: 7-22-20
 Applicant/Owner: B. Roberts State: CA Sampling Point: 3
 Investigator(s): K. Wear Section, Township, Range: 24, +25, R4E
 Landform (hillslope, terrace, etc.): steep hillslope Local relief (concave, convex, none): none Slope (%): 5
 Subregion (LRR): A Lat: E 442115.3 Long: N 4458407.66 Datum: NAD 83
 Soil Map Unit Name: Burgsblock - Coolyork - Tanin NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: <u>Plot is seepy area near base of pond leave</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
				= Total Cover
Sapling/Shrub Stratum (Plot size: <u>10' - r</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Toxicodendron diversilobum</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
				= Total Cover
Herb Stratum (Plot size: <u>10' - r</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Juncus patens</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Idolus lanatus</u>	<u>10</u>	<u>W</u>	<u>FAC</u>	
3. <u>Mentha pelusius</u>	<u>10</u>	<u>W</u>	<u>OBL</u>	
4. <u>Rumex crispus</u>	<u>2</u>	<u>W</u>	<u>FAC</u>	
5. <u>Athyrium filix-femina</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
				= Total Cover
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
				= Total Cover
% Bare Ground in Herb Stratum _____				= Total Cover

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 5 - Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No _____

Remarks: There is a tree layer above feature, but trees are not rooted in it.

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10Y-4/1	80	7.5Yr 5/6	20	C M ck	CL		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)
	<input checked="" type="checkbox"/> Depleted Matrix (F3)
	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
	<input type="checkbox"/> Redox Dark Surface (F6)
	<input type="checkbox"/> Depleted Dark Surface (F7)
	<input type="checkbox"/> Redox Depressions (F8)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> FAC-Neutral Test (D5)
	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
	<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes No _____ Depth (inches): 1/4 inch

Water Table Present? Yes No _____ Depth (inches): surface

Saturation Present? Yes No _____ Depth (inches): surface

(includes capillary fringe)

Wetland Hydrology Present? Yes No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix C. Representative Photos.



Photo 1. Small wetland near base of the pond levee.



Photo 2. Upland grassland adjacent to the cultivation area.

Appendix C (Cont.). Representative Photos.



Photo 3. Pond with cattails and pondweed.



Photo 4. Stand of spreading rush (*Juncus patens*) in area that lacks other wetland indicators.

Appendix D. Comparison of 2006 and 2019 Google Earth Image of the Pond Location.



State Water Resources Control Board

Cannabis Cultivation Policy Principles and Guidelines for Cannabis Cultivation

As Adopted by the State Water Board on

February 5, 2019

As Approved by Office of Administrative Law on

April 16, 2019

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ACRONYMS AND ABBREVIATIONS

ACL	Administrative Civil Liability
Antidegradation Policy	State Water Board Resolution 68-16, the Statement of Policy with Respect to Maintaining High Quality of Waters in California
Army Corps	United States Army Corps of Engineers
AUMA	Adult Use of Marijuana Act of 2016
Basin Plan	Water Quality Control Plan
BOF	Board of Forestry
BPTC	Best Practicable Treatment or Control
BPC	California Business and Professions Code
CAL FIRE	California Department of Forestry and Fire Protection
CAO	Cleanup and Abatement Orders
CDFA	California Department of Food and Agriculture
CIWQS	California Integrated Water Quality System
CUA	Compassionate Use Act of 1996
CEQA	California Environmental Quality Act
CDEC	California Data Exchange Center
CDFA	California Department of Food and Agriculture
CDFW	California Department of Fish and Wildlife
CDO	Cease and Desist Order
CHRIS	California Historical Resources Information System
CWA	Clean Water Act
Deputy Director	Deputy Director for the Division of Water Rights
DPR	Department of Pesticide Regulation
DPS	Distinct Population Segments
DTE	Distinct Taxonomic Entities
DWR	California Department of Water Resources
e.g.	Latin <i>exempli gratia</i> (for example)
ESA	Federal Endangered Species Act
ESU	Evolutionary Significant Unit
Executive Officer	Executive Officer of the Regional Water Quality Control Board
FER	Flashy, Ephemeral Rain hydrologic regime
FPR	Forest Practice Rules
Cannabis Cultivation General Order	<i>General Waste Discharge Requirements for Discharges of Waste associated with Cannabis Cultivation Activity</i>
GW	Groundwater hydrologic regime
HELP	High Elevation and Low Precipitation hydrologic regime
HSR	High-Volume Snowmelt and Rain hydrologic regime
HUC	Hydrologic Unit Code
HSC	Health and Safety Code
ILRP	Irrigated Lands Regulatory Program

LSA Agreement	Lake and Streambed Alteration Agreement
LSR	Low-Volume Snowmelt and Rain hydrologic regime
LTO	Licensed Timber Operator
MCRSA	Medical Cannabis Regulation and Safety Act
MMRSA	Medical Marijuana Regulation and Safety Act
NCRO	Department of Water Resources, North Central Region Office
NHD	National Hydrography Database
NHDPlusV2	National Hydrography Database Plus Version 2
NMP	Nitrogen Management Plan
NOA	Notice of Applicability
NONA	Notice of Non-Applicability
NOT	Notice of Termination
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NPS	Nonpoint Source Pollution Control Program
NRO	Department of Water Resources, North Region Office
NTU	Nephelometric Turbidity Units
OWTS	Onsite Wastewater Treatment System
PGR	Perennial Groundwater and Rain hydrologic regime
Policy	Cannabis Cultivation Policy, Principles and Guidelines for Cannabis Cultivation
RSG	Rain and Seasonal Groundwater hydrologic regime
Regional Water Board	Regional Water Quality Control Board
Road Handbook	Handbook for Forest, Ranch, and Rural Roads
RPF	California Registered Professional Forester
RWD	Report of Waste Discharge
State Water Board	State Water Resources Control Board
SB	Senate Bill
SCCWRP	Southern California Coastal Water Research Project
SCR	Site Closure Report
SIC	Standard Industrial Code
SDR	Small Domestic Registrations
SEPs	Supplemental Environmental Projects
SIUR	Small Irrigation Use Registrations
SM	Snowmelt hydrologic regime
SW-CGP	Storm Water Construction General Permit
SW-IGP	Storm Water Industrial General Permit
SWPPP	Storm Water Pollution Prevention Plan
THP	Timber Harvest Plan
TMDL	Total Maximum Daily Load
UC Davis	University of California, Davis
US	United States

USBR
U.S. EPA
USGS
Water Boards

United States Bureau of Reclamation
United States Environmental Protection Agency
United States Geological Survey
State Water Board and Regional Water Boards

POLICY OVERVIEW

The purpose of this Cannabis Cultivation Policy (Policy) is to ensure that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, and springs. This Policy applies to the following cannabis cultivation activities throughout California:

- Commercial Recreational
- Commercial Medical
- Personal Use Medical

This Policy does not apply to recreational cannabis cultivation for personal use, which is limited to six plants under the Adult Use of Marijuana Act (Proposition 64, approved by voters in November 2016)¹.

Cannabis cultivation legislation enacted California Water Code (Water Code) section 13149, which directs the State Water Board, in consultation with the California Department of Fish and Wildlife (CDFW), to adopt interim and long-term principles and guidelines for the diversion and use of water for cannabis cultivation in areas where cannabis cultivation may have the potential to substantially affect instream flows. The legislation requires the State Water Board to establish these principles and guidelines as part of a state policy for water quality control².

Per Water Code section 13149, the principles and guidelines:

- shall include measures to protect springs, wetlands, and aquatic habitats from negative impacts of cannabis cultivation; and
- may include requirements that apply to groundwater diversions where the State Water Board determines those requirements are reasonably necessary.

Additionally, Business and Professions Code section 26060.1(b) requires that these principles and guidelines be included as conditions in cannabis cultivation licenses issued by the California Department of Food and Agriculture (CDFA). The State Water Board has primary enforcement responsibility for the principles and guidelines and shall notify CDFA of any enforcement action taken³.

¹ Recreational cannabis cultivation for personal use as defined in Health and Safety Code section 11362.1(a)(3) and section 11362.2.

² Water Code section 13149(b)(2). *The board shall adopt principles and guidelines under this section as part of state policy for water quality control adopted pursuant to Article 3 (commencing with Section 13140) of Chapter 3 of Division 7.* Water Code section 13142 outlines specific requirements for a state policy for water quality control, which this Policy implements.

³ Water Code section 13149(b)(5).

This Policy establishes principles and guidelines (hereinafter “Requirements”) for cannabis cultivation activities to protect water quality and instream flows. The Requirements established by this Policy will be incorporated into and implemented through five regulatory programs:

- CDFA’s CalCannabis Cultivation Licensing Program⁴;
- State Water Board’s Cannabis General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (Cannabis Cultivation General Order) or any Waste Discharge Requirements addressing cannabis cultivation activities adopted by a Regional Water Quality Control Board (Regional Water Board);
- State Water Board’s General Water Quality Certification for Cannabis Cultivation Activities (Cannabis General Water Quality Certification);
- State Water Board’s Cannabis Small Irrigation Use Registration (Cannabis SIUR); and
- State Water Board’s Water Rights Permitting and Licensing Program.

The Requirements for cannabis cultivation are located in Attachment A. Policy background information and justifications for the Requirements are located in the Cannabis Cultivation Policy Staff Report.

Water Code section 13149 authorizes the State Water Board to develop both interim and long-term requirements and update them as necessary. It is anticipated that the State Water Board will update this Policy over time to modify or add requirements to address cannabis cultivation impacts, as needed.

The State Water Board holds the dual mandates of allocating surface water rights and protecting water quality. The State Water Board is the state agency with primary authority over water quality under California’s Porter-Cologne Water Quality Control Act and the federal Clean Water Act. Under these authorities, the State Water Board may adopt water quality objectives, including flow objectives, and programs of implementation to achieve these objectives. California law directs the State Water Board and Regional Water Boards (collectively Water Boards) to adopt water quality control plans and policies that identify existing and potential beneficial uses of waters of the state and establish water quality objectives to protect these uses.

This Policy meets the requirements of Water Code section 13149(b)(1) and is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15308⁵.

⁴ Business and Professions Code section 26060(b)(1).

⁵ California Code of Regulation section 15308. Actions by Regulatory Agencies for Protection of the Environment. *Class 8 consists of actions taken by regulatory agencies, as authorized by state or local*

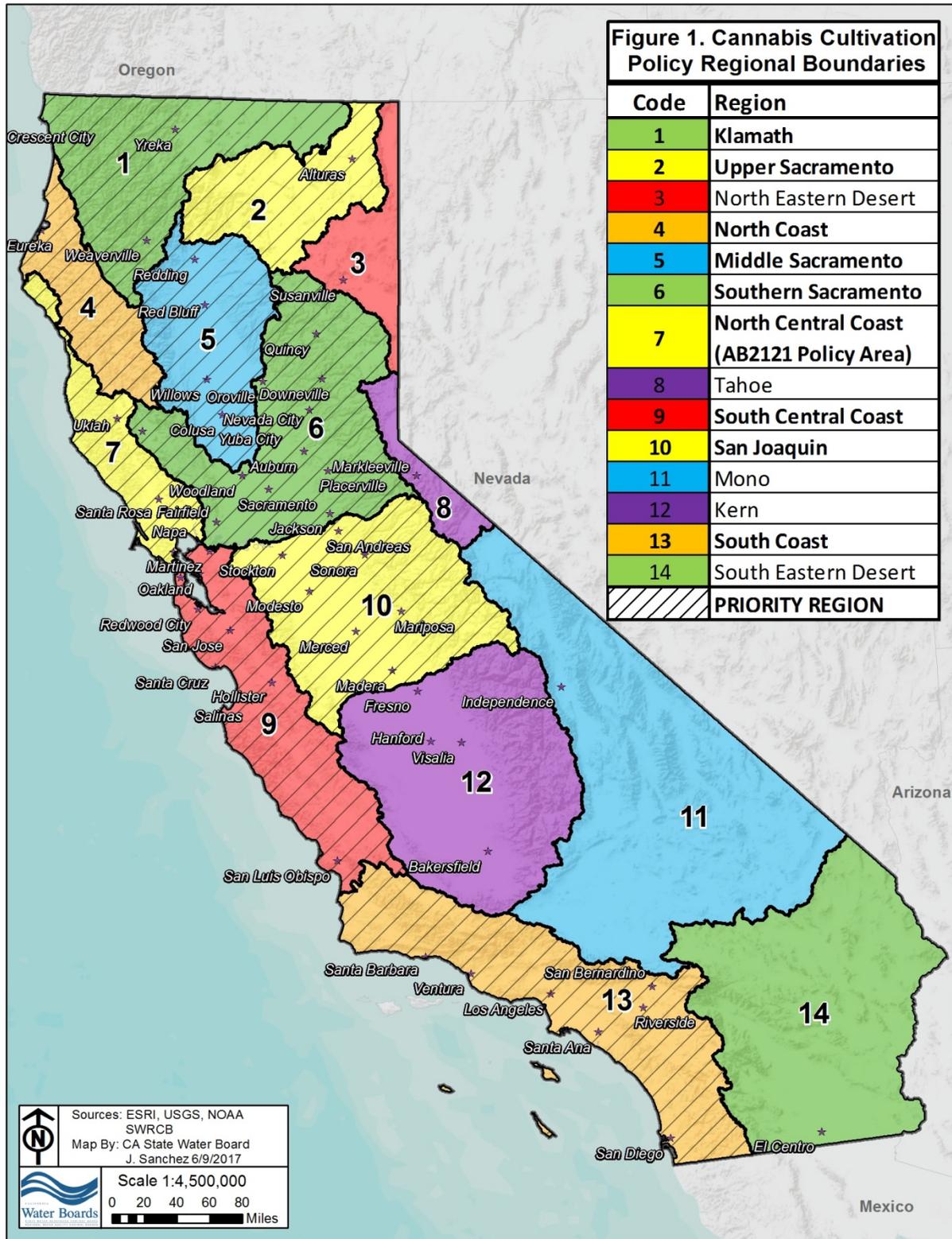
The State Water Board allocates water through an administrative system that is intended to maximize the beneficial uses of water while protecting the public trust, serving the public interest, and preventing the waste and unreasonable use or method of diversion of water. The Water Boards implement water quality control plans through both water rights- and water quality-related programs. For example, Water Code section 1258 requires the State Water Board to consider water quality control plans when acting upon applications to appropriate water and the State Water Board may impose such conditions as it deems necessary to implement such plans. Water Code section 13263(a) requires waste discharge requirements to implement applicable water quality control plans, including terms to ensure that water quality objectives will be met. In issuing water quality certifications and waste discharge requirements, the Water Boards include conditions necessary to ensure the activities will comply with applicable water quality objectives, including flow objectives⁶. The State Water Board also may implement flow objectives by specifying minimum bypass flows as a condition of a water right.

GEOGRAPHIC AREA COVERED BY POLICY

California is a large and geographically diverse state, covering 163,696 square miles, and spanning over 800 miles of coastline. California's multiple mountain ranges and valleys result in highly variable climate, precipitation and drainage patterns. To account for the state's size and geographic diversity, this Policy designates 14 Cannabis Cultivation Policy regions: Klamath, Upper Sacramento, North Eastern Desert, North Coast, Middle Sacramento, Southern Sacramento, North Central Coast, Tahoe, South Central Coast, San Joaquin, Mono, Kern, South Coast, and South Eastern Desert (Figure 1). This Policy establishes water quality and instream flow Requirements statewide. These include instream flow Requirements that must be met or exceeded at specific compliance flow gages when water is being diverted for cannabis cultivation. The Policy identifies 14 regions and identifies nine of those regions as priority regions that support anadromous salmonids. The priority regions are: Klamath, Upper Sacramento, North Coast, Middle Sacramento, Southern Sacramento, North Central Coast, South Central Coast, San Joaquin, and South Coast.

ordinance, to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment. Construction activities and relaxation of standards allowing environmental degradation are not included in this exemption.

⁶ See Wat. Code § 13377; Cal. Code of Regs., tit. 23, § 3859.



REQUIREMENTS FOR CANNABIS CULTIVATION

The State Water Board developed these Requirements in consultation with CDFW and CDFA. The Requirements are divided into five main categories, which are located in the following sections of Attachment A:

- Section 1. General Requirements and Prohibitions, and Cannabis General Water Quality Certification
- Section 2. Requirements Related to Water Diversions and Waste Discharge for Cannabis Cultivation
- Section 3. Numeric and Narrative Instream Flow Requirements (including Gaging)
- Section 4. Watershed Compliance Gage Assignments
- Section 5. Planning and Reporting

General Requirements and Prohibitions implement existing State Water Board authorities and address issues such as compliance with state and local permits, discharge prohibitions, riparian setbacks, protection of tribal cultural resources, and the Water Boards' right to access properties for inspections.

The Requirements related to water diversion and waste discharge for cannabis cultivation cover the following 12 best practicable treatment or control categories:

- riparian and wetland protection and management;
- water diversion, storage, and use;
- irrigation runoff;
- land development and maintenance, erosion control, and drainage features;
- soil disposal;
- stream crossing installation and maintenance;
- fertilizer and soil use and storage;
- pesticide and herbicide application and storage;
- petroleum products and other chemical use and storage;
- cultivation-related waste disposal;
- refuse and human waste disposal; and
- winterization.

The numeric and narrative instream flow Requirements address water quality and quantity through the establishment of flow Requirements that include three elements: (a) dry season forbearance period, (b) numeric flow Requirements (bypass) during the wet season (diversion period), and (c) narrative flow Requirements. This section

includes Requirements for groundwater diversions⁷, and includes establishment of a surface water aquatic base flow. The surface water aquatic base flow is used to help inform whether additional requirements are needed in certain areas to help ensure the individual and cumulative impacts of groundwater diversions do not have a negative impact on the surface water flows. Section 3 includes Requirements for gage installation in areas where the density of cannabis cultivation and limited water availability may have a localized negative impact on instream flows in areas with high resource value.

The Watershed Compliance Gage assignments section includes information on compliance gage instream flow Requirements and the compliance gage watershed assignments for all watershed areas throughout the state. The following discussion provides an overview of the development of instream flow Requirements and compliance gage assignments for the numeric flow Requirements.

Flow and Gaging Requirements

The narrative instream flow Requirements in Section 3 of Attachment A apply to cannabis cultivators throughout the state. The numeric instream flow Requirements are developed at compliance gages statewide.

The instream flow Requirements may be updated over time, as reasonably necessary. Interested parties may submit scientifically defensible information (e.g., instream flow studies) that supports modification to the instream flow Requirements to the State Water Board's Deputy Director for the Division of Water Rights (Deputy Director) for consideration during updates to the Policy.

Surface Water Diversion Forbearance Period

Absent restrictions on water diversion, the individual and cumulative effects of water diversions for cannabis cultivation during the dry season are likely to significantly decrease instream flow and, in some instances, reduce hydrologic connectivity or completely dewater the stream. Minimum flows that provide habitat connectivity are needed to maintain juvenile salmonid passage conditions in late spring and early summer. Instream flows are also needed to maintain habitat conditions necessary for juvenile salmonid viability throughout the dry season, including adequate dissolved oxygen concentrations, low stream temperatures, and high rates of invertebrate drift from riffles to pools. Further, many species depend on spring recession flows as migratory or breeding cues. The State Water Board is requiring a surface water

⁷ All groundwater Requirements apply to exempt springs. To qualify as an exempt spring the cannabis cultivator must submit information and receive approval from the Deputy Director for Water Rights, as specified in Section 3 of Attachment A of the Policy. An exempt spring is a spring that does not flow off the cannabis cultivator's property by surface or subterranean (subsurface) means in the absence of diversions during any time of year in any water year type. Such springs are exempt from the Policy's Narrative Instream Flow Requirement 4 (Surface Water Dry Season Forbearance Period) and Requirement 5 (Surface Water Wet Season Diversion Period – Numeric Instream Flow Requirements).

diversion forbearance period to ensure adequate flows are maintained throughout the dry season and protect aquatic species, aquatic habitat, and water quality.

Wet Season Surface Water Instream Flow Requirements

Minimum instream flow requirements during the wet season are needed for the protection of aquatic species life history needs. For threatened and endangered anadromous salmonids, minimum flows are needed to address life history needs, such as:

1. maintaining natural abundance and availability of spawning habitat;
2. minimizing unnatural adult exposure, stress, predation, and delay during adult spawning migration; and
3. sustaining high quality and abundant juvenile salmonid winter rearing habitat.

To meet the timeline, scale, and purpose of this Policy, the State Water Board, in consultation with CDFW, has determined that the Tessmann Method is the best methodology to develop interim instream flow requirements. The Tessmann Method develops instream flow requirements by using percentages of historical mean annual and mean monthly natural streamflow⁸. For the development of long-term instream flow requirements, the State Water Board, in consultation with CDFW, will evaluate other scientifically robust methods that are more reflective of regional variability and the needs of target species. The State Water Board applied the Tessmann Method to a predicted historical flow data set sourced from a flow modeling effort conducted by the United States Geological Survey (USGS) in cooperation with The Nature Conservancy and Trout Unlimited⁹ (USGS flow modeling data). The interim instream flow Requirements were calculated for compliance gages throughout the state. The Tessmann Method and the USGS flow modeling data allow for instream flow requirements to be calculated at additional compliance points throughout the state. This Policy allows the State Water Board to use the Tessmann Method and the USGS flow modeling data to calculate or adjust a flow requirement, as needed, throughout the state.

Maintain High Flow Events

To preserve the annual first flush flow event, the surface water diversion period for cannabis cultivation will not occur until the real-time daily average flow is greater than the minimum monthly instream flow Requirement at a compliance gage for seven consecutive days or after December 15 when flows are greater than the numeric flow

⁸ In general, during the wet season the Tessmann Method compares 40 percent of the mean monthly flow to 40 percent of the mean annual flow and whichever is greater is the flow requirement for that given month (Tessmann 1979).

⁹ The USGS flow modeling effort developed empirical flow models that predict the natural (unaffected by land use or water management) monthly stream flows from 1950 to 2012 for the majority of the USGS National Hydrologic Database stream reaches in California (Carlisle, et. al. 2016).

Requirement, whichever occurs first. The State Water Board will monitor other high flow events that occur throughout the wet season to evaluate whether additional requirements are needed to maintain high flow variability during other periods of the wet season.

Groundwater Requirements¹⁰

To address potential impacts of groundwater diversions on surface flow, the Deputy Director may require a forbearance period or other measures for cannabis groundwater diversions in areas where such restrictions are necessary to protect instream flows. Such areas may include watersheds with: high surface water-groundwater connectivity; large numbers of cannabis groundwater diversions; and/or groundwater diversions in close proximity to streams. An aquatic base flow was developed at each compliance gage¹¹ during the surface water forbearance period (dry season) to inform the need for additional actions to address impacts associated with cannabis groundwater diversions. The aquatic base flow was established in consultation with CDFW. The aquatic base flow is established using USGS flow modeling data to calculate mean monthly flows and applying the New England Aquatic Base Flow Standard (ABF Standard) methodology at the compliance gages in the nine priority regions. The aquatic base flow is the set of chemical, physical, and biological conditions that represent limiting conditions for aquatic life in stream environments. This Policy allows the State Water Board to apply the ABF Standard to the USGS flow modeling data to calculate an aquatic base flow Requirement at additional compliance points, as needed, throughout the state. The State Water Board will monitor instream flows during the dry season and evaluate the number and location of cannabis groundwater diversions to determine whether imposition of a groundwater forbearance period or other measures are necessary. To address potential localized effects of groundwater diversions on surface water flow, the State Water Board will also monitor where significant numbers of surface water diverters are switching to groundwater diversions to evaluate whether imposition of a groundwater forbearance period or other measures are necessary. The State Water Board will notify cannabis cultivators of the possibility that a groundwater forbearance period or other measures may be imposed so that the cultivators can install storage, coordinate diversions, take measures to secure alternate water supplies, or identify other measures to address the low flow condition.

Compliance Gages and Requirements

Compliance gage assignments have been developed for all watershed areas throughout the state. Numeric instream flow Requirements are applied at a subset of existing gages reported on two websites: (1) the USGS – National Water Information System (NWIS)¹²; or (2) California Department of Water Resources (DWR) – California Data

¹⁰ All groundwater Requirements apply to exempt springs.

¹¹ The aquatic base flow was developed using the USGS flow modeling data.

¹² <https://waterdata.usgs.gov/ca/nwis/rt>, viewed May 19, 2017.

Exchange Center (CDEC)¹³. Watershed areas that do not have existing gages are assigned a compliance gage for a different location in the same watershed or for a nearby watershed with similar flow characteristics. Cannabis cultivators in ungaged watersheds may be required to install a gage if information indicates that use of the assigned gage does not adequately protect instream flows. The State Water Board will monitor where cannabis cultivation diversions are located to track areas where locally concentrated cannabis cultivation water diversions within a watershed may adversely affect instream flows.

Many dams in California have existing instream flow requirements through the Federal Energy Regulatory Commission licensing program or through Biological Opinions issued by the National Marine Fisheries Service or the United States Fish and Wildlife Service, or through water right decisions. Cannabis cultivators shall comply with either existing instream flow requirements (e.g. State Water Board Orders, Biological Opinions, Federal Energy Regulatory Commission Licensing Program) or the Tessmann instream flow Requirements, whichever is greater.

The instream flow Requirement compliance gages are located in areas that are generally representative of the water availability and total demand occurring upstream of the gaging location or in a similar watershed. However, impacts may still occur in areas where there is significant localized cannabis cultivation compared to water availability or where the compliance gage does not accurately reflect the demand in a paired watershed. To help ensure diversion of water for cannabis cultivation does not negatively impact the flows needed for fish spawning, migration, and rearing, or the flows needed to maintain natural flow variability, the cannabis cultivator shall maintain a minimum bypass of at least 50% of the streamflow past the cannabis cultivator's point of diversion, in addition to the applicable numeric instream flow Requirements.

¹³ <https://cdec.water.ca.gov/>, viewed May 19, 2017.

POLICY IMPLEMENTATION AND COMPLIANCE

Overview

The Requirements established by this Policy will be incorporated and implemented through the statewide Cannabis Cultivation General Order, any waste discharge requirements addressing cannabis cultivation activities adopted by a Regional Water Board, Cannabis SIUR, Water Rights' Permitting and Licensing Program, and CDFA's CalCannabis Cultivation Licensing Program.

General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (Cannabis Cultivation General Order)

Water Code section 13260 requires that any person discharging waste or proposing to discharge waste that could affect the quality of the waters of the state must file a report of waste discharge to obtain coverage under waste discharge requirements (WDRs) or a waiver of WDRs. Water Code section 13263(a) requires that WDRs implement applicable water quality control plans, taking into account the beneficial uses to be protected, applicable water quality objectives, and the need to prevent a condition of pollution or nuisance.

Water Code section 13263(i) authorizes the State Water Board to prescribe general WDRs for a category of discharges if the State Water Board determines that all of the following criteria apply to the discharges in that category: the discharges are produced by the same or similar operations; the discharges involve the same or similar type of waste; the discharges require the same or similar treatment standards; and the discharges are more appropriately regulated under general WDRs than individual WDRs. Water Code section 13269 states that the State Water Board may conditionally waive the requirements to file a Report of Waste Discharge under Water Code section 13260(a)(1) and/or to prescribe WDRs under Water Code section 13263(a) for a specific discharge or specific type of discharge where such a waiver is consistent with the applicable Regional Water Board Basin Plans and is in the public interest. Water Code section 13146 requires that WDRs comply with state policy for water quality control. The Cannabis Cultivation General Order will implement this Policy and the legal authorities described above.

Cannabis cultivators enrolled under Order R1-2015-0023 or Order R5-2015-0113 may continue to operate under the applicable Regional Water Board order until July 1, 2019, at which time coverage under the statewide Cannabis Cultivation General Order shall be required.

Cannabis cultivators enrolled under Order R1-2015-0023 or Order R5-2015-0113 are subject to all applicable Attachment A Requirements related to water diversion and instream flow¹⁴. Prior to obtaining coverage under the statewide Cannabis Cultivation General Order, a cannabis cultivator may pursue a Small Irrigation Use Registration from the Division of Water Rights, and as part of granting the resulting Small Irrigation Use Registration, the Division of Water Rights may condition the registration on flow, diversion, storage, or similar requirements of Attachment A.

Applicability, Tier Designation, and Threat to Water Quality

The Cannabis Cultivation General Order will provide a statewide tiered approach for permitting discharges and threatened discharges of waste from cannabis cultivation and associated activities, establish a personal use exemption standard, and provide conditional exemption criteria for activities with a low threat to water quality. Tiers are defined by the amount of disturbed area. The disturbed area indicates the threat to water quality because level of threat is proportional to the area of disturbed soil, the amount of irrigation water used, the potential for storm water runoff, and the potential impacts to groundwater (e.g., the use of fertilizers or soil amendments, the possible number of employees on site, etc.).

The criteria for the tier structure consist of three exemptions and two tiers, as follows:

1. Personal use-exempt cannabis cultivators are very small, non-commercial cultivators that are exempt from the Cannabis Cultivation General Order. (See the Exemptions for Certain Cultivation Activities section.)
2. Indoor commercial cultivation activities are conditionally exempt under the Cannabis Cultivation General Order. (See the Exemptions for Certain Cultivation Activities section.)
3. Outdoor commercial cultivation activities that disturb less than 2,000 square feet may be conditionally exempt under the Cannabis Cultivation General Order. (See the Exemptions for Certain Cultivation Activities section.)
4. Tier 1 outdoor commercial cultivation activities disturb an area equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet).
5. Tier 2 outdoor commercial cultivation activities disturb an area equal to or greater than 1 acre.

¹⁴ At a minimum, applicable Attachment A Requirements include: Section 1 – General Requirements and Prohibitions (Numbers 4, 15, 17, 24, 26, and 36); Section 2 – Requirements Related to Water Diversions and Waste Discharge for Cannabis Cultivation (Numbers 23, 63, 64, 66, 69 through 93, 95, and 97 through 102); Section 3 – Numeric and Narrative Instream Flow Requirements (Including Gaging) (Narrative Instream Flow Requirements 1 – 7 and Gage Installation, Maintenance, and Operation Requirements); and Section 4 – Watershed Compliance Gage Assignments (All).

Determination of Total Disturbed Area

To determine total disturbed area for the purpose of tier determination, see the “Land Disturbance” definition in Attachment A. In addition, cannabis cultivators shall consider the following:

- a. Cannabis cultivators that cultivate in multiple sites within a parcel or contiguous parcels shall add all the disturbed areas together to calculate the total disturbed area for tier determination. For example, a cannabis cultivator that operates two cultivation areas that each disturb 1,100 square feet must report a disturbance of 2,200 square feet and does not qualify for a conditional exemption under the Cannabis Cultivation General Order. Cannabis cultivators that cultivate cannabis on non-contiguous parcels must evaluate each parcel for regulatory coverage separately.
- b. Existing access roads that were constructed prior to establishment of cultivation activities that were designed, constructed, upgraded, and are maintained consistent with the guidance presented in the *Handbook for Forest, Ranch, and Rural Roads* (Road Handbook) are not considered a disturbed area for the purpose of tier determination under the Cannabis General Order. However, the existing access roads are included as areas requiring Best Practicable Treatment or Control (BPTC) measure maintenance activities to prevent impairment to water quality.
- c. Areas where plant material has been removed for the purpose of wildfire suppression and where the plant material will recover with seasonal precipitation, are not considered disturbed.

Risk Determination

Tier 1 and Tier 2 enrollees under the Cannabis Cultivation General Order must characterize the risk designation based on the slope of disturbed areas and the proximity to a water body.

The Cannabis Cultivation General Order provides criteria to evaluate the threat to water quality based on:

- a. Slope of disturbed area: Increased slopes may be associated with decreased soil stability, especially when associated with vegetation removal. Storm water and excess irrigation water are more likely to runoff and discharge off-site from sloped surfaces.
- b. Proximity to a surface water body: Riparian setbacks from surface water bodies generally reduce impacts to water quality. Disturbed areas within the riparian setbacks are more likely to discharge waste constituents to surface water, therefore, any sites that cannot meet the riparian setback Requirements are considered to be high risk sites. Refer to the Attachment A for riparian setback Requirements.

For each site, risk determination is done based on the characteristic that poses the greatest threat to water quality. For example, if a site has multiple cultivation areas and one of the cultivation areas is located on a slope greater than 30 percent and less than 50 percent, all the cultivation areas will be classified as moderate risk.

A summary of risk designation is presented below:

Table 1. Summary of Risk Designation

Low Risk	Moderate Risk	High Risk
<ul style="list-style-type: none">• No portion of the disturbed area is located on a slope greater than 30 percent, and• All of the disturbed area complies with the riparian setback Requirements.	<ul style="list-style-type: none">• Any portion of the disturbed area is located on a slope greater than 30 percent and less than 50 percent, and• All of the disturbed area complies with the riparian setback Requirements.	<ul style="list-style-type: none">• Any portion of the disturbed area is located within the riparian setback Requirements.

Exemptions for Certain Cultivation Activities

Certain cultivation activities qualify for exemption from the requirements under the Cannabis Cultivation General Order due to their low threat to water quality; however,

the exemptions do not limit the Water Boards' authority to inspect the site, evaluate the exemption status, or evaluate other water quality or water right regulatory requirements. Note that even cannabis cultivation activities that are exempt from the Cannabis Cultivation General Order must comply with certain conditions in order to maintain their exemption.

Personal Use Exemption

Cultivation operations that qualify for a personal use exemption from the Cannabis Cultivation General Order are those that are consistent with Health and Safety Code sections 11362.77 (medical marijuana) or Health and Safety Code section 11362.2 (non-medical marijuana) and subsequent revisions of the statutes, disturb an area (in aggregate) less than 1,000 square feet, and comply with the additional conditions below. These cultivation activities are exempt from requirements to obtain CDFG cannabis cultivation licenses because they are not commercial activities and present a lower threat to water quality. Thus, they are not required to submit any application information to obtain coverage under the Cannabis Cultivation General Order. The 1,000 square feet personal use exemption criteria provide sufficient area for outdoor cultivation of six mature plants for non-medical (recreational) use, or 500 square feet of cannabis plant canopy, as allowed for medical cultivation purposes.

The exemptions apply per parcel or contiguous parcels; no coalitions, cooperatives, or other combination of cultivation activities can claim the personal use exemption for activities on the same parcel. The personal use exemption shall not apply if the cannabis cultivator fails to comply with all applicable conditions, including the non-commercial activity requirement. If the personal use exemption does not apply, the cannabis cultivator shall contact the Regional Water Board to determine if the activity qualifies for conditionally exempt status, or instead must enroll under the Cannabis Cultivation General Order under Tier 1 or Tier 2.

To qualify for the personal use exemption, a cannabis cultivator must comply with all of the following, as applicable:

- a. The cultivation area shall be contiguous (all located in one area);
- b. The disturbed area shall comply with the riparian setback Requirements in Attachment A of this Policy and occupy less than 1,000 square feet;
- c. No part of the disturbed area shall be located on land with a slope greater than 20 percent; and
- d. The cannabis cultivator shall comply with this Policy and implement all applicable Requirements listed in Attachment A of this Policy.

The personal use exemption does not alter any other legal requirements (e.g., limitations on sales, distribution, or donations of cannabis). Non-commercial cultivation activities require a valid basis of right for the diversion and use of water and therefore may require a water right. The exemption for enrolling under the Cannabis Cultivation

General Order does not affect the requirement to obtain authorization for water diversion. The personal use exemption does not affect other Policy Requirements such as the Requirement to obtain authorization for water diversion.

Conditional Exemption

Cannabis cultivation activities that disturb an area (in aggregate) less than 2,000 square feet on any one parcel or on contiguous parcels managed as a single operation and that comply with all of the additional cultivation area criteria listed below are conditionally exempt from enrolling under the Cannabis Cultivation General Order, but are required to obtain coverage under the waiver of WDRs (Waiver). The 2,000 square feet conditional exemption criterion allows sufficient area for outdoor cultivation for small commercial activities. Facilities with larger disturbed areas are an inherently higher threat to water quality and are subject to additional regulatory oversight. The conditional exemption applies per parcel or contiguous parcels; no coalitions, cooperatives, or other combination of cannabis cultivation activities can claim the conditional exemption for activities on the same parcel. To be conditionally exempt, a cannabis cultivator must comply with all of the following:

- a. The cultivation area shall be contiguous (all located in one area);
- b. The disturbed area shall comply with the riparian setback Requirements in Attachment A of this Policy and occupy less than 2,000 square feet;
- c. No part of the disturbed area shall be located on land with a slope greater than 20 percent; and
- d. The cannabis cultivator shall comply with this Policy and implement all applicable Requirements listed in Attachment A of this Policy.

The conditional exemption does not alter any other legal requirements (e.g., limitations on sales, distribution, or donations of cannabis). Cultivation activities that are conditionally exempt under the Cannabis Cultivation General Order still require a valid basis of right for the diversion and use of water and therefore may still require a water right. The conditional exemption under the Cannabis Cultivation General Order does not affect the Requirement to obtain authorization for water diversion. To obtain documentation of conditionally exempt status, such cannabis cultivators must submit application information under the Cannabis Cultivation General Order. Refer to the *Application Process and Fees* section of the Cannabis Cultivation General Order for information on the Cannabis Cultivation General Order's application requirements.

Exemption for Indoor Cultivation Activities

Indoor commercial cannabis cultivation may be performed using hydroponic growing systems, soil, or other growth media. To maintain suitable growing conditions, wastewater is discharged from hydroponic systems when the irrigation water contains excessive salinity or nutrients. Irrigation tail water is generated when excess water drains from the growth media. Irrigation tail water or hydroponic wastewater may contain nutrients (e.g., phosphate or nitrate), salinity constituents (e.g., sodium,

chloride, potassium, calcium, sulfate, magnesium), and other constituents (e.g., iron, manganese, zinc, molybdenum, boron, and silver)¹⁵. Other sanitation based wastewaters may also be generated at indoor commercial cannabis cultivation sites. These miscellaneous industrial wastewaters may contain biocides, bleach mixtures, or other chemical waste streams.

Commercial cannabis cultivation activities are classified as conditionally exempt if they occur within a structure with a permanent roof, a permanent relatively impermeable floor (e.g., concrete or asphalt paved), comply with this Policy and all applicable Requirements in Attachment A, and either: 1) discharge all industrial wastewaters generated to a permitted wastewater treatment collection system and facility that accepts cannabis cultivation wastewater; or 2) collect all industrial wastewater in an appropriate storage container to be stored and properly disposed of by a permitted wastewater hauler at a permitted wastewater treatment facility that accepts cannabis cultivation wastewater. To obtain documentation of the conditionally exempt status to obtain a CDFA commercial cannabis cultivation license, conditionally exempt commercial cannabis cultivators are required to obtain coverage under the Waiver. Refer to the *Application Process and Fees* section of the Cannabis Cultivation General Order for information on the Cannabis Cultivation General Order's application requirements.

Discharges of irrigation tail water, hydroponic wastewater, or other miscellaneous industrial wastewaters from indoor cannabis cultivation activities to an on-site wastewater treatment system (such as a septic tank and leach field), to land, or to surface water must obtain separate regulatory authorization (e.g., WDRs, conditional waiver of WDRs, or other permit mechanism) to discharge the wastewater. Such cannabis cultivators are classified as conditionally exempt. To obtain documentation of the conditionally exempt status and obtain a CDFA cultivation license, conditionally exempt cannabis cultivators are required to obtain coverage under the Waiver. Refer to the *Application Process and Fees* section of the Cannabis Cultivation General Order for information on the Cannabis Cultivation General Order's application requirements.

¹⁵ City of Littleton – City of Englewood Pretreatment Pipeline. Third Quarter 2011. “Medical Marijuana – an Exploding New Industry.” Webpage: <http://www.lewwtp.org/home/showdocument?id=5674>. Accessed 17 January 2017.

Indoor commercial cultivation activities that are conditionally exempt under the Cannabis_Cultivation General Order still require a valid basis of right for the diversion and use of water and therefore may still require a water right. The exemption for enrolling under the Cannabis Cultivation General Order does not affect the Requirement to obtain authorization for water diversion.

Application Process and Fees

Personal use exempt cannabis cultivators meeting the criteria described in the *Exemptions for Certain Cultivation Activities* section do not need to apply for coverage from the State Water Board or Regional Water Board. Cannabis cultivators that qualify for a personal use exemption under the Cannabis Cultivation General Order are not required to pay an application fee or a subsequent annual fee.

Conditionally exempt sites (indoor or outdoor) are required to apply for coverage under the Waiver on-line with the State Water Board and pay an application fee.

Facilities that are classified as either Tier 1 or Tier 2 are required to enroll under the Cannabis Cultivation General Order, apply on-line, pay an application fee, and pay an annual fee. Details regarding the on-line application process are described in the Cannabis Cultivation General Order. The application fee serves as the first year's annual fee; cannabis cultivators will be billed on an annual basis.

Sites that pose a higher threat to water quality (e.g., disturb a larger area, located on a steeper slope, or located close to a surface water body) require a greater level of regulatory oversight, which translates to higher costs to achieve water quality protection. High risk sites (any portion of the disturbed area is located within the riparian setback Requirements), will be assessed the high-risk fee until the activities comply with the riparian setback Requirements. This does not apply to disturbed areas resulting from activities authorized under 404/401 Clean Water Act permits, a CDFW Lake and Streambed Alteration Agreement, coverage under the Cannabis Cultivation General Water Quality Certification, or site-specific WDRs issued by the Regional Water Board. The Cannabis Cultivation General Order includes a compliance schedule to achieve compliance with riparian setback Requirements. It is the cannabis cultivator's responsibility to notify the Regional Water Board of compliance with the riparian setback Requirements to reassess the annual fee. If the site is unable to meet the compliance schedule contained in the Cannabis Cultivation General Order for complying with the riparian setback Requirements, the Regional Water Board may issue a site-specific enforcement order and compliance schedule.

Third Party Programs

Some Regional Water Boards may approve third party programs to assist cannabis cultivators with enrollment and compliance with the Cannabis Cultivation General Order. Some cannabis cultivators may elect to designate a Regional Water Board approved third party to represent them in issues related to application and compliance with the

Cannabis Cultivation General Order. The cannabis cultivator, property owner, and third party shall all be identified in the Cannabis Cultivation General Order application. This Policy requires the cannabis cultivator to immediately notify the appropriate Regional Water Board if the third party is changed or terminated.

Cannabis Small Irrigation Use Registration

Since January 1, 1989, the Water Rights Registration Program has been available for expedited acquisition of appropriative water rights for certain small projects. In accordance with the Water Code section 1228, water right registrations are available for small irrigation, small domestic, and livestock stockpond users. SIURs are applicable to irrigated crops for sale or trade, including commercial cannabis cultivation once general conditions are adopted. Small Domestic Registrations (SDR) may be used for small, incidental watering and personal gardens and are not subject to this Policy (SDRs may not be used for obtaining CDFW commercial cannabis cultivation licenses). Livestock stockpond registrations are not available for cannabis cultivation.

Although cultivators often have multiple options to establish a water right for their water supply, the State Water Board anticipates that many cultivators will choose the Cannabis SIUR because it is a faster and easier way to obtain a water right in comparison to the application process for a new appropriative water right, which can take many years. In accordance with this Policy, cultivators who rely on surface water to irrigate their cannabis operation are required to divert to storage during the wet season (portions of fall/winter/spring) and forebear from diverting during the dry season (summer/portions of fall). Because riparian water rights do not allow for water storage, riparian water right holders who intend to cultivate cannabis will also be required to obtain an appropriative (storage) water right (most likely through the Cannabis SIUR) in order to comply with the Policy. Cultivators should be aware that Cannabis SIURs, like other appropriative water rights: 1) will not be issued for fully appropriated streams in the restricted diversion season, as it has been determined that water is unavailable for appropriation; and 2) may not be available on rivers and streams designated as Wild and Scenic (Public Law 90-542; 16 U.S.C. 1271 et seq. and California Public Resource Code section 5093.54). Cannabis SIURs, like other new registrations for appropriations, are not available where the water source is in a CDFW Instream Flow Study area with a final flow recommendation from CDFW submitted to the State Water Board under Public Resource Code section 10002¹⁶.

The Requirements established in this Policy serve as General Conditions for the Cannabis SIUR water right registrations for commercial cannabis cultivation statewide. Cultivators will submit their registration filing (application), have the ability to make payments, and receive a water right registration certificate through the State Water

¹⁶ Water Code section 1229.1.

Board's online portal. Cultivators will be subject to all terms and conditions set forth in this Policy as well as any additional conditions assigned by CDFW.

CDFA's CalCannabis Cultivation Licensing Program

In accordance with California Business and Professions Code (BPC) sections 26012, 26013, and 26060, CDFA has established a commercial cannabis cultivation licensing program. BPC section 26051.5(b)(7) requires the CDFA to consult with the State Water Board on the source or sources of water the applicant will use for cultivation. BPC section 26060.1(b)(1) requires that CDFA include conditions requested by the State Water Board in any license, including but not limited to the principles, guidelines, and requirements established under Section 13149 of the Water Code.

Compliance with the Requirements of this Policy is a pre-requisite for obtaining a CDFA Cannabis Cultivators license. The law requires that cannabis cultivators provide evidence of compliance with the Water Boards' Requirements (or certification by the appropriate Water Board stating a permit is not necessary) as part of their application for a CDFA cannabis cultivation license. The State Water Board has primary enforcement responsibility for the Requirements and shall notify CDFA of any enforcement action taken¹⁷.

Continuing Authority to Amend Policy

Pursuant to Water Code Section 13149(a)(2), the State Water Board has continuing authority to amend this Policy as it deems reasonably necessary.

Instream Flow Dedications

Water Code section 1707 allows any person entitled to the use of water, whether based upon an appropriative, riparian, or other right, to petition the State Water Board for a change for purposes of preserving or enhancing wetlands habitat, fish and wildlife resources, or recreation in, or on, the water.

Local Cooperative Solutions

If CDFW enters into an agreement with one or more cannabis cultivators and determines that the agreement provides watershed-wide protection for aquatic species that is comparable to or greater than the instream flow Requirements provided by this Policy, the cannabis cultivator or cultivators may request approval from the Deputy Director to implement the agreement in place of the instream flow Requirements (numeric, narrative, and forbearance) in this Policy. The Deputy Director may approve the request subject to such conditions, including reporting requirements, that the Deputy Director deems necessary to prevent injury to other legal users of water or the environment.

¹⁷ Water Code section 13149(b)(5)

Other local cooperative solutions may also be proposed by cannabis cultivators to the Deputy Director as an alternative means of reducing water use to preserve the required instream flows. Requests to implement local cooperative solutions may be submitted to the Deputy Director at any time. Local cooperative solutions may include proposals to coordinate diversions or share water. Cannabis cultivators may also submit a local cooperative solution to the Deputy Director that requests to use or install, maintain, and operate a local gage and move the flow Requirement compliance point to that gage location. The Deputy Director may approve a request, or approve it subject to any conditions that the Deputy Director determines to be appropriate, if the Deputy Director determines:

- (a) The continued diversion is reasonable;
- (b) That other users of water will not be injured;
- (c) That the relevant minimum instream flows identified in this Policy will be met; and
- (d) Gages used as compliance points will be installed, maintained, and operated in accordance with the gage installation, maintenance, and operation Requirements in Section 3 of Attachment A of this Policy.

Diversions in violation of a local cooperative solution or agreement approved by the Deputy Director are subject to enforcement as a violation of this Policy. Interested parties will be provided notice of agreements, local cooperative solutions, and decisions under this section via: (1) the State Water Board's "Cannabis Cultivators" email subscription mailing list; and

(2) posting on the State Water Board's cannabis webpage as soon as practicable. The Deputy Director may issue a decision under this section prior to providing notice. Any interested person may file an objection to the proposed agreement, proposed local cooperative solution, or decision. The objection shall indicate the manner of service upon the certifier or petitioner. The State Water Board will consider any objection, and may hold a hearing thereon, after notice to all interested persons.

Tribal Authority Savings Clause

Nothing in this Policy shall be construed to amend or modify in any way the authority of California Native American tribes to regulate cannabis cultivation on Tribal lands recognized as "Indian country" within the meaning of title 18, United States Code, section 1151.

ENFORCEMENT

Compliance with this Policy is mandatory to ensure that the diversion of water and discharge of waste associated with cannabis cultivation does not have a negative impact on water quality, aquatic habitat, riparian habitat, wetlands, or springs. Timely and appropriate enforcement is critical to ensure that cannabis cultivators enroll under the regulatory framework and anticipate, identify, and correct any violations.

Enforcement action may be taken against cultivators who continue to grow cannabis in violation of state law and against cultivators who enroll in regulatory programs, but fail to fully comply with the Requirements. Appropriate penalties and other consequences for violations prevent cultivators that do not comply with the Requirements from obtaining an unfair competitive advantage and help ensure public confidence in the regulatory framework.

Continuing Authority to Amend Water Rights

The State Water Board has continuing authority to amend or modify water right permits and licenses pursuant to Water Code sections 100 and 275. If, after investigation, the State Water Board determines that a permitted diversion results in an adverse impact to public trust resources or results in a waste or unreasonable use or unreasonable method of use or method of diversion of water, the State Water Board may modify a permit or license term or may adopt additional requirements in order to protect the public trust, ensure that the waste is abated, and ensure that the diversion and use of water is reasonable. Similarly, the State Water Board may modify existing permits or licenses if the State Water Board determines that such modification is necessary to meet water quality objectives contained in water quality control plans or policies for water quality control established or modified pursuant to Division 7 (commencing with section 13000) of the Water Code. Such a modification will be made after providing affected permit and license holders with any legally required notice, hearing or other procedures.

Prohibition Against Waste and Unreasonable Use of Water

The State Water Board has continuing authority under Water Code sections 100 and 275 to enforce the requirements of the California Constitution, Article X, section 2, which directs that the water resources of the state be put to beneficial use to the fullest extent, and that water not be wasted or unreasonably used. It further provides that rights to the use of water are limited to such water as is reasonably required for the beneficial use served, and does not extend to the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of the water.

The reasonable use doctrine applies to both surface water and groundwater, and it applies irrespective of the type of water right held by the diverter or user. (*Peabody v. Vallejo* (1935) 2 Cal.2d 351, 366-367.) What constitutes an unreasonable use, method of use, or method of diversion depends on the facts and circumstances of each case. (*People ex rel. State Water Resources Control Board v. Forni* (1976) 54 Cal.App.3d 743, 750.) Under the reasonable use doctrine, water right holders may be required to endure some inconvenience or to incur reasonable expenses. (*Id.* at pp. 751-752.) The State Water Board's continuing authority includes the power to enact regulations that preclude unreasonable use. (Water Code § 1058; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463, 1482.)

In light of limited available water supply and the need for water to protect public trust resources, the State Water Board has determined that it is a waste and unreasonable use of water under Article X, section 2 of the California Constitution to: 1) divert or use water for cannabis cultivation in a manner inconsistent with this Policy, regardless of water right seniority; 2) to divert or use water for cannabis cultivation, where prohibited by state law, this Policy, on public lands, or on tribal land without authorization; and 3) overwater cannabis plants and cause runoff.

If, after investigation, the State Water Board determines that a water diversion is wasteful or constitutes an unreasonable use, unreasonable method of use, or unreasonable method of diversion of water, the State Water Board may require a person who diverts and uses water to comply with measures to abate the waste or ensure the reasonable use of water, method of use, and method of diversion. Such a requirement will be adopted subject to applicable State Water Board procedures.

Protection of Public Trust Resources

The State Water Board has an affirmative duty to take the public trust into account in the planning and allocation of water resources, and to protect the public trust uses whenever feasible. In the exercise of that duty, the State Water Board may use its legal authority to set requirements protecting public trust resources and order water users to comply.

Incorporation of Policy Requirements in CDFG Cultivation Licenses

Implementation of the Requirements in this Policy is not solely the purview of the Water Boards. Pursuant to Business and Professions Code section 26060.1(b)(1), CDFG will incorporate this Policy's Requirements (referenced in the statute as "principles, guidelines, and requirements") into cultivation licenses issued under its CalCannabis Cultivation Licensing Program and will consult with the State Water Board regarding their implementation. If the State Water Board or CDFG finds, based on substantial evidence, that cannabis cultivation is causing significant adverse impacts on the environment in a watershed or other geographic area, CDFG shall not issue new licenses or increase the total number of plant identifiers within that watershed or area¹⁸.

Watershed Enforcement Team

In addition to the Water Boards' dedicated enforcement staff, legislation¹⁹ directed the Water Boards and CDFG to expand the scope of the Watershed Enforcement Team (<https://www.wildlife.ca.gov/Conservation/Cannabis/WEP>) from its initial North Coast/Central Valley focus to address cannabis cultivation activities statewide. In

¹⁸ Business and Professions Code section 26069 (c)(1).

¹⁹ Water Code section 13276(a) and Fish and Game Code section 12029(c), as established in Assembly Bill 243 (Statutes 2015, Chapter 688, Wood).

addition to pursuing enforcement related to cannabis cultivation, this team also provides public outreach and education, performs site inspections, and responds to complaints.

Enforcement Tools

The Water Boards have a variety of enforcement tools to correct noncompliance. The Policy may be implemented directly per Water Code section 1847. The Policy Requirements will be implemented through the Cannabis Cultivation General Order, the Cannabis SIUR, and Cannabis Cultivation General Water Quality Certification. The following summary includes types of enforcement actions that may be taken by the Water Boards. The Water Boards will make every effort to coordinate any enforcement action among its various divisions, offices, and regions and not initiate duplicative enforcement on the same violations. The Water Boards will coordinate enforcement with other agencies where appropriate.

Informal Enforcement

An informal enforcement action is any enforcement action taken by Water Boards staff that is not defined in statute or regulation.

Verbal and Written Contacts

An informal enforcement action can include any form of communication (verbal, written, or electronic) between Water Boards staff and a cannabis cultivator concerning an actual, threatened, or potential violation.

Notice of Violation

A Notice of Violation (NOV) letter is the most significant level of informal enforcement action for cannabis cultivators and should be used only where a violation has occurred. NOV letters must be signed by the appropriate staff and provided to the cannabis cultivator.

Formal Enforcement

Formal enforcement actions are statute-based actions to address a violation or threatened violation of water rights and/or water quality laws, regulations, policies, plans, or orders. The actions listed below present options available for water right and/or water quality enforcement.

Notice to Comply

The Water Boards may issue a Notice to Comply for certain minor violations.

Order Technical Reports and Investigations

The Water Boards may conduct investigations and require technical or monitoring reports from any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste.

Administrative Civil Liability

Administrative Civil Liability (ACL) refers to monetary penalties that may be imposed by the Water Boards.

Supplemental Environmental Projects

The Water Boards may allow a person or entity to satisfy no more than 50 percent of the monetary assessment imposed in an ACL order by completing or funding one or more Supplemental Environmental Projects (SEPs). SEPs are projects that enhance the beneficial uses of the waters of the state, provide a benefit to the public at large, and are not otherwise required of the person or entity.

Cleanup and Abatement Orders

Cleanup and Abatement Orders (CAOs) may be issued to any person who has discharged or discharges waste into the waters of the state in violation of any waste discharge requirement or other order or prohibition issued by the Water Boards, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance. The CAO requires the cannabis cultivator to clean up the waste or abate the effects of the waste, or both, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts.

Time Schedule Orders

Water Boards can require the cannabis cultivators to submit time schedules that sets forth the actions the cannabis cultivators will take to address actual or threatened discharges of waste in violation of requirements.

Cease and Desist Orders

To remedy water quality violations, a Regional Water Board or the State Water Board may issue a Cease and Desist Order (CDO) against the discharger. The State Water Board also may issue a CDO for water rights violations. In addition to general authority to issue CDOs, the State Water Board has specific legal authority to issue a CDO against any unlawful diversion or discharge for cannabis cultivation, any diversion or discharge that violates this Policy, and any cultivation activity that violates other applicable requirements that protect the environment.

Revocation of Water Right Permits and Licenses

The State Water Board may revoke a water right permit, license, or registration pursuant to certain sections of the Water Code.

Modification or Rescission of Waste Discharge Requirements

The Water Boards may modify or rescind waste discharge requirements (WDRs) in response to violations.

Enforcement Referral

Depending on the nature of the violation, the Water Boards may refer violations to the State Attorney General, County District Attorney, City Attorney, US Attorney, or United States Environmental Protection Agency.

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State Water Resources Control Board

Cannabis Cultivation Policy

ATTACHMENT A

Definitions and Requirements for Cannabis Cultivation

As Adopted by the State Water Board on

February 5, 2019

As Approved by Office of Administrative Law on

April 16, 2019

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OVERVIEW

This Attachment A contains diversion and discharge Requirements for cannabis cultivation activities. The cannabis cultivator shall comply with all Requirements in this Policy, and applicable federal, state, and local laws, regulations, and permitting requirements. In the event of duplicate or conflicting requirements, the most stringent requirements shall apply. There are five main categories of cannabis cultivation Requirements to protect water quality and instream flows, which are organized in the first five sections of Attachment A. Attachment A is organized in the following sections:

- Section 1. General Requirements and Prohibitions, and General Water Quality Certification for Cannabis Cultivation Activities
- Section 2. Requirements Related to Water Diversions and Waste Discharge for Cannabis Cultivation
- Section 3. Numeric and Narrative Instream Flow Requirements (including Gaging)
- Section 4. Watershed Compliance Gage Assignments
- Section 5. Planning and Reporting
- Section 6. Useful Guidance Documents

Definitions

The following are definitions of terms used in the Policy, Attachment A, Staff Report, and Cannabis Cultivation General Order.

#	DEFINITION
1.	Access Road – A road, other than a completely paved road regularly maintained by a governmental entity, that provides access to one or more cannabis cultivation areas.
2.	Agronomic Rate – The rate of application of irrigation water and nutrients to plants necessary to satisfy the plants' evapotranspiration requirements and growth needs and minimize the movement of nutrients below the plants root zone. The agronomic rate considers allowances for supplemental water (e.g., effective precipitation), irrigation distribution uniformity, nutrients present in irrigation water, leaching requirement, and plant available nitrogen.
3.	Anadromy (adj. form: anadromous) — Migration of fish, as adults or subadults, from salt water to fresh.

#	DEFINITION
4.	Aquatic Base Flow — The set of chemical, physical, and biological instream flow conditions that represent limiting conditions for aquatic life in stream environments. The aquatic base flow is determined using defined scientific methodology that equates the aquatic ecosystem health with the flow in the stream, calculated by applying the New England Aquatic Base Flow Standard.
5.	Aquatic benthic macroinvertebrate — Aquatic animals without backbones that can be seen by the unaided eye and typically dwell on rocks, logs, sediment or plants. Examples include, but are not limited to, insects, mollusks, amphipods, and aquatic worms. Common aquatic insects include, but are not limited to, mayflies, stoneflies, caddisflies, true flies, water beetles, dragonflies, and damselflies.
6.	Aquatic non-fish vertebrate — Include, but are not limited to: aquatic mammals, such as beavers, river otters, and muskrats; amphibians, such as frogs and salamanders; and aquatic reptiles, such as snakes and turtles.
7.	Average, also called mean — The sum of measured values divided by the number of samples.
8.	California Native American tribe – As defined in section 21073 of the Public Resources Code: a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004.
9.	Cannabis Cultivation – Any activity involving or necessary for the planting, growing, pruning, harvesting, drying, curing, or trimming of cannabis. This term includes, but is not limited to: (1) water diversions for cannabis cultivation, and (2) activities that prepare or develop a cannabis cultivation site or otherwise support cannabis cultivation and which discharge or threaten to discharge waste to waters of the state.

#	DEFINITION
10.	<p>Cannabis Cultivation Area – is defined by the following:</p> <ul style="list-style-type: none"> a) For in-ground plants, the cultivation area is defined by the perimeter of the area planted, including any immediately adjacent surrounding access pathways. b) For plants grown outdoors in containers (e.g., pots, grow bags, etc.) the cultivation area is defined by the perimeter of the area that contains the containers, including any immediately adjacent surrounding access pathways. The area is not limited to the sum of the area of each individual container. c) For plants grown indoors, that do not qualify for the conditional exemption under the Cannabis Cultivation General Order, the cultivation area is defined by the entire area contained in the structure where cultivation occurs, excluding any area used solely for activities that are not cultivation activities (e.g., office space). Areas used for storage of materials, equipment, or items related to cannabis cultivation shall be included in the cultivation area calculation.
11.	<p>Cannabis Cultivation Site – A location where cannabis is planted, grown, pruned, harvested, dried, cured, graded, or trimmed, or where any combination of these activities occurs.</p>
12.	<p>Cannabis Cultivator – Any person or entity engaged in cultivating cannabis who diverts water (i.e., diverter) or discharges or threatens to discharge waste (i.e., discharger). This term includes business entities; employees; contractors; landowners; cultivators; lessees; and tenants of private land where cannabis is cultivated and of lands that are modified or maintained to facilitate cannabis cultivation.</p>
13.	<p>Cannabis Canopy Area (Canopy Area) – The anticipated canopy acreage at plant maturity.</p>
14.	<p>Cesspool — An excavation in the ground receiving domestic wastewater, designed to retain organic matter and solids, while allowing the liquids to seep into the soil. Cesspools do not have a septic tank providing primary treatment of wastewater prior to discharge. A cesspool is distinguished from an outhouse, pit-privy, or pit-toilet because liquid wastewater (e.g., from toilet flushing, shower, or kitchen sources) is discharged to a cesspool.</p>
15.	<p>Channel maintenance flows — Peak streamflows needed for maintaining stream channel geometry, gravel and woody debris movement, and the natural flow variability needed for protection of various habitat needs of anadromous salmonids.</p>

#	DEFINITION
16.	Channel thalweg — The line connecting the lowest or deepest points along a stream channel.
17.	Coarse sediment — Particle sizes of ¼ inch or larger, including particles derived from debris flows, that either contribute directly to spawning gravel, or that reduce to a smaller usable size, or influence stream channel morphology by forming a substrate framework.
18.	Construction Storm Water Program – Refers to implementation of Water Quality Order 2009-0009-DWQ and National Pollutant Discharge Elimination System No. CAS000002, as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and amendments thereto. Activities located in the Lake Tahoe Hydrologic Unit shall comply with the National Pollutant Discharge Elimination System No. CAG616002, Order No. R6T-2016-0010 and amendments thereto. Cannabis cultivators whose activities disturb one or more acres of soil or whose projects disturb less than one acre, but are part of a larger common plan of development that in total disturbs one or more acres may need to obtain coverage under the Construction Storm Water Program. Contact the appropriate Regional Water Board Storm Water Program for a determination of the need for storm water permitting.
19.	Day – is the mean solar day of 24 hours beginning at midnight (12:00 am). All references to day in this Policy and the Cannabis Cultivation General Order are calendar days.
20.	Deep percolation — Infiltration of water through soil when storm water or excess irrigation water is applied and percolates below the plant root zone.
21.	Discharger – any person or entity engaged in developing land for cannabis cultivation, providing access to adjacent properties for cultivation activities, or engaged in the legal cultivation of cannabis that discharges or threatens to discharge waste.
22.	Disturbed Area – see Land Disturbance
23.	Disturbed Land – see Land Disturbance
24.	Diversión — Taking water, by gravity or pumping, from a surface stream or groundwater, into a canal, pipeline, or other conduit, including impoundment of water in a reservoir.
25.	Diverter – Any person or entity that diverts water from waters of the state, including surface waterbodies and groundwater.

#	DEFINITION
26.	Dredged material — Any material that is excavated or dredged from a waterbody. This includes but is not limited to “dredged material” as defined at title 33, section 323.2, subdivision (c) of the Code of Federal Regulations.
27.	Ecological functions and values (of riparian habitat) — Functions are onsite and offsite natural riparian habitat processes. Values are the importance of the riparian habitat to society in terms of health and safety; historical or cultural significance; ecological characteristics, education, research, or scientific significance; aesthetic significance; economic significance; or other reasons.
28.	Ephemeral watercourse — See <i>Watercourse</i> definitions.
29.	Exceedance probability — The probability that a specified streamflow magnitude will be exceeded. The exceedance probability is equal to one divided by the recurrence interval.
30.	Face value —The maximum amount of water that is authorized to be diverted under a water right permit, license, registration, or livestock stockpond certificate, and the maximum amount of water claimed under a statement of water diversion and use.
31.	Face value demand — The sum of the face values of all water rights above an identified location in a stream channel.
32.	Fill material — Material placed into a waterbody that has the effect of either replacing any portion of the water with dry land or changing the bottom elevation of the waterbody. This includes, but is not limited to “fill material” as defined at title 33, section 323.2, subdivision (e) of the Code of Federal Regulations.
33.	Fish – Wild fish, mollusks, crustaceans, invertebrates, or amphibians, including any part, spawn, or ova thereof (California Fish and Code section 45). For the purposes of stream classification, fish are defined as finfish.
34.	Flow frequency analysis — A statistical technique used by hydrologists for estimating the average rate at which floods, droughts, storms, rainfall events, etc., of a specified magnitude recur.
35.	Flow path — The direction water flows along its stream course from the point of diversion to the Pacific Ocean. If a project will have a <i>de minimis</i> effect on flows in a flow-regulated mainstem river, then the flow path may terminate at the flow-regulated mainstem river.

#	DEFINITION
36.	Flow-regulated mainstem river — A river or stream in which scheduled releases from storage are made to meet minimum instream flow requirements established by a State Water Board Order or Decision.
37.	Forbearance Period —The calendar days or otherwise defined conditions during which no water may be diverted. See also <i>Surface Water Diversion Period</i> .
38.	Habitat suitability criteria — Structural and hydraulic characteristics of a stream that are indicators of habitat suitability for different fish species and life stages.
39.	Hazardous material — Any item or agent (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.
40.	Heavy equipment — Large pieces of machinery or vehicles, especially those used in the building and construction industry (e.g., bulldozers, excavators, backhoes, bobcats, or tractors).
41.	Hydraulic conductivity — The capacity of a porous medium to transmit water. The rate at which fluid can move through a permeable medium depends on the properties of the fluid (viscosity and specific weight) and properties of the medium (intrinsic permeability). Hydraulic conductivity is generally measured in units of feet/day or centimeters/second.
42.	Hydrograph — A graph showing the rate of flow versus time past a specific point in a river, or other channel or conduit carrying flow; generally measured in units of cubic meters or cubic feet/second.
43.	Hyporheic — Denoting an area or ecosystem beneath the bed of a river or stream that is saturated with water and that supports invertebrate fauna which play a role in the larger ecosystem.
44.	Impervious surface — A permanent improvement affixed to the earth which does not allow water or liquid to pass through it or permeate into the earth. Impervious surface includes a house or primary structure, driveway, parking lot, walkways, sidewalks, patios, decks, green houses, accessory structure(s), and other hardscape.

#	DEFINITION
45.	Industrial wastewater — Any non-domestic liquid from any producing, manufacturing, processing, or operation of a commercial, industrial, or institutional establishment of whatever nature. Industrial wastewater differs from domestic wastewater or municipal wastewater (also called sewage). Industrial wastewater is a by-product of industrial or commercial activities.
46.	Instream cover — Areas of shelter in a stream channel that provide aquatic organisms protection from predators or competitors and/or a place in which to rest and conserve energy due to a reduction in the force of the current.
47.	Integrated Pest Management (IPM) — 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. 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 environment.
48.	Intermittent watercourse — see <i>Watercourse</i> definitions.
49.	Invasive Species — Organisms (plants, animals, or microbes) that are not native to an environment and that, once introduced, establish, quickly reproduce and spread, and cause harm to the environment, economy, or human health. For guidance on decontamination methods and species of concern, see CDFW's invasive species webpage : https://www.wildlife.ca.gov/Conservation/Invasives .

#	DEFINITION
50.	<p>Lake and Streambed Alteration Agreement — Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following:</p> <ul style="list-style-type: none"> • Substantially divert or obstruct the natural flow of any river, stream or lake; • Substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or • Deposit debris, waste or other materials that could pass into any river, stream or lake. <p>“Any river, stream or lake” includes those that are episodic (they are dry for periods of time) as well as those that are perennial (they flow year-round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.</p>
51.	<p>Land Disturbance – Land areas where natural conditions have been modified in a way that may result in an increase in turbidity in water discharged from the site. Disturbed land includes areas where natural plant growth has been removed whether by physical, animal, or chemical means, or natural grade has been modified for any purpose. Land disturbance includes all activities whatsoever associated with developing or modifying land for cannabis cultivation related activities or access. Land disturbance activities include, but are not limited to, construction of roads, buildings, water storage areas; excavation, grading, and site clearing. Disturbed land includes cultivation areas, storage areas where soil or soil amendments (e.g., potting soil, compost, or biosolids) are located.</p> <p>Access roads that are designed, constructed, and maintained, or are reconstructed consistent with the Handbook for Forest, Ranch, and Rural Roads (Road Handbook), and that implement the interim and long-term erosion prevention and soil stabilization measures contained in Attachment A, are not considered disturbed areas for the purpose of tier determination under the Cannabis Cultivation General Order.</p>
52.	<p>Landowner – Any person or entity who owns, in whole or in part, the parcel of land on which cannabis cultivation is occurring or will occur. A landowner need not be a cannabis cultivator.</p>
53.	<p>Laterals (in the context of irrigation water lines) — Pipes between the control valve and the sprinkler heads or irrigation emitters.</p>

#	DEFINITION
54.	<p>Legacy conditions – are sites of historical activity, which may not be related to cannabis cultivation activities that may discharge sediment or other waste constituents to waters of the state. Legacy conditions are caused or affected by human activity. Implementation of corrective actions can reduce or eliminate the waste discharge.</p>
55.	<p>Licensed Contractor - In California, anyone who contracts to perform work that is valued at \$500 or more in combined labor and material costs must hold a current, valid license from the California Contractors' State License Board. Licensed contractors are classified as general engineering, general building, or specialty contractors.</p> <ul style="list-style-type: none"> • General engineering ("A" contractors) principally work with fixed works that require specialized engineering knowledge and skill. A general engineering contractor may perform the work or hire specialty contractors for specific tasks. • General building ("B" contractors) work on existing or new structures that require at least two unrelated types of work. In some cases, a general building contractor can perform the work, but often must hire subcontractors with specialty licenses. • Specialty contractors ("C" contractors) are those who specialize in a particular skill or trade. Specialty or subcontractors usually are hired to perform a single task. <p>Because there is significant overlap between specialty contractor skills, more than one specialty contractor may be licensed to contract for a project.</p>
56.	<p>Licensed Timber Operators (LTOs) — Persons who have been licensed under the Forest Practice Act and are authorized to conduct forest tree cutting and removal operations.</p>
57.	<p>Local Environmental Health Department — The local environmental health department, as determined by entering the address of a cannabis cultivation site into the following website directory: http://cersapps.calepa.ca.gov/public/directory.</p>
58.	<p>Mainlines (in the context of irrigation water lines) — Pipes that run from the water source to the control valves.</p>
59.	<p>Maximum cumulative diversion rate — The sum of the rates of diversion of all diversions upstream of a specific location in the watershed.</p>

#	DEFINITION
60.	Mean, also called average — The sum of measured values divided by the number of samples.
61.	Minimum bypass flow — In the context of a diversion Requirement, it is the minimum instantaneous flow rate of water that must be moving past the point of diversion before water may be diverted.
62.	Natural monthly streamflows — Modeled monthly streamflows that are unaffected by land use or water management.
63.	Offset well — A well drilled at an offset distance from a river or stream that is considered pumping from the underflow of the river or stream.
64.	Perennial watercourse — See <i>Watercourse</i> definitions.
65.	Period of record — The time period for which flow measurements have been recorded. The period of record may be continuous or interrupted by intervals during which no data were collected.
66.	Permeability —The property of a porous rock or soil for transmitting a fluid. It measures the relative ease of flow under unequal pressure. See <i>hydraulic conductivity</i> .
67.	<p>Pesticide — Pesticide is defined as follows:</p> <ul style="list-style-type: none"> - Per California Code of Regulations Title 3. Division 6. Section 6000: <ul style="list-style-type: none"> (a) Any substance or mixture of substances that is a pesticide as defined in the Food and Agricultural Code and includes mixtures and dilutions of pesticides; (b) As the term is used in Section 12995 of the California Food and Agricultural Code, includes any substance or product that the user intends to be used for the pesticidal purposes specified in Sections 12753 and 12758 of the Food and Agricultural Code. - Per California Food and Agricultural Code section 12753(b), the term “Pesticide” includes any of the following: Any substance, or mixture of substances, which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, as defined in Section 12754.5, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever. - In laymen’s terms, “pesticide” includes: rodenticides, herbicides, insecticides, fungicides, and disinfectants.

#	DEFINITION
68.	Point of Diversion — A location at which water is withdrawn from a surface waterbody.
69.	Pool — A deeper area of water in a stream channel; usually quiet and often with no visible flow.
70.	Professional Archeologist — An archeologist that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.
71.	Qualified Biologist – an individual who possesses, at a minimum, a bachelor’s or advanced degree, from an accredited university, with a major in biology, zoology, wildlife biology, natural resources science, or a closely related scientific discipline, at least two years of field experience in the biology and natural history of local plant, fish, and wildlife resources present at the cannabis cultivation site, and knowledge of state and federal laws regarding the protection of sensitive and endangered species.
72.	<p>Qualified Professional – Qualified Professional means:</p> <ol style="list-style-type: none"> 1. individuals licensed in California under the Professional Engineer Act (e.g., Professional Engineer), Geologist and Geophysicist Act (e.g., Professional Geologist, Certified Engineering Geologist, or Certified Hydrogeologist), and Professional Land Surveyors’ Act (e.g., Professional Land Surveyor)¹, 2. a California Registered Professional Forester (RPF), and 3. a Qualified Storm Water Pollution Prevention Plan (SWPPP) Developer (QSD). Qualified QSDs are California licensed civil engineers; professional geologists; landscape architects; professional hydrologists; certified professionals in erosion and sediment control; certified inspectors of sediment and erosion control; and certified erosion, sediment, and storm water inspectors. <p>A Qualified Professional shall only perform work he/she is qualified to complete, consistent with applicable licensing and registration restrictions, and shall certify any work completed. Cannabis cultivation land development in timberland may be designed by a qualified California RPF.</p>

¹ See Business and Professions Code sections 6700-6799, 7800-7887, and 8700-8805, respectively.

#	DEFINITION
73.	Range of anadromy — Length of stream reach between the Pacific Ocean and the upper limit of anadromy (see definition of <i>Anadromy</i>), where migration, spawning and rearing of salmonids occur.
74.	Recurrence interval — The average time between occurrences of streamflows of a given or greater magnitude, sometimes referred to as the return period. The recurrence interval is equal to one divided by the exceedance probability.
75.	Redd — Spawning areas or nests made by a salmon or trout
76.	Requirements - Principles and guidelines established in accordance with Water Code section 13149 for the diversion and use of water for cannabis cultivation. Principles and guidelines include: (i) measures to protect springs, wetlands, and aquatic habitats from negative impacts of cannabis cultivation; and (ii) requirements that apply to groundwater diversions where the State Water Board determines those requirements are reasonably necessary.
77.	Residual pool depth — The difference between the depth of a pool at its deepest point and at its outlet.
78.	Restricted materials — Restricted materials are defined in California Code of Regulations, title 3, section 6400. Restricted materials include all “restricted use pesticides,” as defined in the Federal Insecticide, Fungicide, and Rodenticide Act section 3(d)(1)(C). Information on restricted materials is available at: http://www.cdpr.ca.gov/docs/enforce/compend/vol_3/chap2.pdf .
79.	Riffle — A shallow area in which water flows rapidly over a rocky or gravelly streambed.
80.	Riffle crest — The highest point along the channel thalweg at a riffle.
81.	Riparian habitat — Vegetation growing close to a stream, lake, swamp, or spring that is generally critical for wildlife cover, fish food organisms, stream nutrients and large organic debris, and for streambank stability.
82.	Riparian Setback – setbacks from a watercourse or waterbody established to protect water quality and/or aquatic life. For the purposes of this document, riparian setbacks also apply to wetlands and surface water bodies such as lakes or reservoirs. Please refer to the Minimum Riparian Setback table (Section 1, Requirement 37)

#	DEFINITION
83.	Road Handbook - The Handbook for Forest, Ranch, and Rural Roads , available at: http://www.pacificwatershed.com/PWA-publications-library .
84.	Salmonid — Of, belonging to, or characteristic of the family Salmonidae, which includes salmon, trout, and whitefish.
85.	Sheet flow length — The length that shallow, low velocity flow travels across a site.
86.	Site Mitigation – Efforts to mitigate the impacts of Legacy conditions or cannabis cultivation activities on the cannabis cultivation site or its surroundings.
87.	Site Remediation – Efforts to restore the cannabis cultivation site and its surroundings to its pre-legacy conditions or condition before cannabis cultivation activities began, or to restore the cannabis cultivation site and its surroundings to its natural condition.
88.	<p>Slope – shall be determined across the natural topography (preconstruction) of the land to be disturbed. Measure the highest and lowest elevations of the land to be disturbed, then measure the horizontal distance separating the highest and lowest elevations. Determine the slope using the formula below. (Multiple the ratio by 100 to find the percent value.) There may be more than one slope value if the low elevation has higher elevations in different directions. The highest slope value calculated (highest percentage numerically) is the value to be reported.</p> $Slope = \frac{elevation\ difference}{horizontal\ distance} \times 100$ <p>Slope – Value of slope expressed as a percentage. Elevation difference – Report in feet to an accuracy of one inch or one tenth of a foot. Horizontal distance – Report in feet to an accuracy of one inch or one tenth of a foot.</p>
89.	Soil Materials – Include soil, aggregate (rock, sand, or soil), potting soil, compost, manure, or biosolids.
90.	Spring — See <i>Watercourse</i> definitions.
91.	Stabilized Areas – Consist of areas previously disturbed that have been successfully reclaimed to minimize the increase in sediment or turbidity in water discharged from the site. Areas where vehicles may travel or be parked may not be considered stabilized.

#	DEFINITION
92.	Substrate —The material (e.g., sand, gravel, cobbles, boulders, bedrock, and combinations thereof) that forms the bed of a stream.
93.	Surface Water Diversion Period — The calendar period during which water may be diverted. See also <i>Forbearance Period</i> .
94.	Thalweg — See <i>channel thalweg</i> .
95.	Timberland – Pursuant to Public Resources Code section 4526, means land, other than land owned by the federal government and land designated by the Board of Forestry as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. Commercial species, on a district basis, are defined in California Code of Regulations, title 14, section 895.1.
96.	Tribal lands – lands recognized as “Indian country” within the meaning of title 18, United States Code, section 1151.
97.	Turbidity – a measure of water clarity: how much the material suspended in water decreases the passage of light through the water. Suspended materials include soil particles (clay, silt, and sand), algae, plankton, and other substances. The turbidity test is reported in Nephelometric Turbidity Units (NTUs).
98.	Upper limit of anadromy — The upstream end of the range of anadromous fish that currently are or have been historically present year-round or seasonally, whichever extends the furthest upstream.
99.	Waterbody – any significant accumulation of water above the ground surface, such as: lakes, ponds, rivers, streams, creeks, springs, artesian wells, wetlands, and canals.

#	DEFINITION
100.	<p>Watercourse – a natural or artificial channel through which water flows.</p> <ul style="list-style-type: none"> • Perennial watercourse (Class I*): <ol style="list-style-type: none"> 1. In the absence of diversions, water is flowing for more than nine months during a typical year, 2. Fish always or seasonally present onsite or includes habitat to sustain fish migration and spawning, and/or 3. Spring: an area where there is concentrated discharge of ground water that flows at the ground surface. A spring may flow any part of the year. For the purpose of this Policy, a spring does not have a defined bed and banks. • Intermittent watercourse (Class II*): <ol style="list-style-type: none"> 1. In the absence of diversions, water is flowing for three to nine months during a typical year, 2. Provides aquatic habitat for non-fish aquatic species, 3. Fish always or seasonally present within 1,000 feet downstream, and/or 4. Water is flowing less than three months during a typical year and the stream supports riparian vegetation. • Ephemeral watercourse (Class III*): In the absence of diversion, water is flowing less than three months during a typical year and the stream does not support riparian vegetation or aquatic life. Ephemeral watercourses typically have water flowing for a short duration after precipitation events or snowmelt and show evidence of being capable of sediment transport. • Other watercourses (Class IV*): Class IV watercourses do not support native aquatic species and are man-made, provide established domestic, agricultural, hydroelectric supply, or other beneficial use. <p>*Except where more restrictive, stream class designations are equivalent to the Forest Practice Rules Water Course and Lake Protection Zone definitions (California Code of Regulations, title 14, Chapter 4. Forest Practice Rules, Subchapters 4, 5, and 6 Forest District Rules, Article 6 Water Course and Lake Protection).</p>
101.	<p>Waterbody Canopy Area — The overhead branches and leaves of streamside woody vegetation.</p>

#	DEFINITION
102.	<p>Watershed — The land area that drains into a stream. An area of land that contributes runoff to one specific delivery point; large watersheds may be composed of several smaller "subsheds", each of which contributes runoff to different locations that ultimately combine at a common delivery point. Often considered synonymous with a drainage basin or catchment. Watershed (drainage basin) boundaries follow topographic highs. The term watershed is also defined as the divide separating one drainage basin from another.</p>
103.	<p>Watershed drainage area — The land area that comprises a watershed.</p>
104.	<p>Water hauler — Any person who hauls water in bulk by any means of transportation.</p>
105.	<p>Waters of the State – any surface water or groundwater, including saline waters, within the boundaries of the state (Water Code section 13050(e)). Includes all waters within the state’s boundaries, whether private or public, including waters in both natural and artificial channels. Waters of the state includes waters of the United States.</p>
106.	<p>Weed-free mulch — A certified weed-free protective covering (e.g. bark chips, straw, etc.) placed on the ground around plants to suppress weed growth, retain soil moisture, or prevent freezing of roots.</p>
107.	<p>Wetland – an area is a wetland if, under normal circumstances:</p> <ol style="list-style-type: none"> 1. the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; 2. the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and 3. the area’s vegetation is dominated by hydrophytes or the area lacks vegetation.
108.	<p>Winter Period – calendar dates from November 15 to April 1, except as noted under special County Rules in California Code of Regulations, title 14, sections 925.1, 926.18, 927.1, and 965.5. A Regional Water Board Executive Officer may impose a more restrictive winter period to protect water quality based on special county rules or as specified in a Basin Plan. The following special rules or basin plan requirements apply:</p> <ol style="list-style-type: none"> I. Santa Clara County, Santa Cruz County, and Monterey County: October 15 to April 15; II. Marin County: October 1 to April 15; and III. Lahontan Regional Water Board: October 15 to May 1 (for elevations above 6,000 feet).

SECTION 1 – GENERAL REQUIREMENTS AND PROHIBITIONS

The following general requirements and prohibitions apply to any cannabis cultivator.

General Requirements and Prohibitions

#	TERM
1.	<p>Prior to commencing any cannabis cultivation activities, including cannabis cultivation land development or alteration, the cannabis cultivator shall comply with all applicable federal, state, and local laws, regulations, and permitting requirements, as applicable, including but not limited to the following:</p> <ul style="list-style-type: none"> • The Clean Water Act (CWA) as implemented through permits, enforcement orders, and self-implementing requirements. When needed per the requirements of the CWA, the cannabis cultivator shall obtain a CWA section 404 (33 U.S.C. § 1344) permit from the United States Army Corps of Engineers (Army Corps) and a CWA section 401 (33 U.S.C. § 1341) water quality certification from the State Water Board or the Regional Water Board with jurisdiction. If the CWA permit cannot be obtained, the cannabis cultivator shall contact the appropriate Regional Water Board or State Water Board prior to commencing any cultivation activities. The Regional Water Board or State Water Board will determine if the cannabis cultivation activity and discharge is covered by the <i>Requirements in the Policy and Cannabis General Waste Discharge Requirements and Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities</i> (Cannabis Cultivation General Order). • The California Water Code as implemented through applicable water quality control plans (often referred to as Basin Plans), waste discharge requirements (WDRs) or waivers of WDRs, enforcement orders, and self-implementing requirements issued by the State Water Resources Control Board (State Water Board) or Regional Water Quality Control Boards (Regional Water Boards). • All applicable state, city, county, or local regulations, ordinances, or license requirements including, but not limited to those for cannabis cultivation, grading, construction, and building. • All applicable requirements of the California Department of Fish and Wildlife (CDFW). • All applicable requirements of the California Department of Forestry and Fire Protection (CAL FIRE), including the Board of Forestry. • California Environmental Quality Act and the National Environmental Policy Act.

#	TERM
2.	<p>If applicable, cannabis cultivators shall obtain coverage under all of the following:</p> <ul style="list-style-type: none"> a) The State Water Board's Construction Storm Water Program and any successors, amendments, or revisions thereto when applicable. b) Activities performed in areas subject to California Code of Regulations title 14, Chapter 4. Forest Practices (Forest Practice Rules) shall be implemented consistent with the permitting, licensing, and performance standards of the Forest Practice Rules, and the Requirements of this Policy, whichever is more stringent.
3.	<p>The cannabis cultivator shall apply for a Lake and Streambed Alteration Agreement (LSA Agreement) or consult with CDFW to determine if a LSA Agreement is needed prior to commencing any activity that may substantially:</p> <ul style="list-style-type: none"> • divert or obstruct the natural flow of any river, stream, or lake; • change or use any material from the bed, channel, or bank of any river, stream, or lake; or • deposit debris, waste, or other materials that could pass into any river stream or lake. <p>"Any river, stream or lake," as defined by CDFW, includes those that are episodic (they are dry for periods of time) as well as those that are perennial (they flow year-round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.</p>
4.	<p>Cannabis cultivators shall not take any action which results in the taking of Special-Status Plants (state listed and California Native Plant Society 1B.1 and 1B.2), Fully Protected species (Fish and Game Code sections 3511, 4700, 5050, and 5515), or a threatened, endangered, or candidate species under either the California Endangered Species Act (ESA) (Fish & Game Code §§ 2050 et seq.) or the federal ESA (16 U.S.C. § 1531 et seq.). If a "take," as defined by the California ESA (Fish and Game Code section 86) or the federal ESA (16 U.S.C. § 1532(21)), may result from any act authorized under this Policy, the cannabis cultivator must obtain authorization from CDFW, National Marine Fisheries Service, and United States Fish and Wildlife Service, as applicable, to incidentally take such species prior to land disturbance or operation associated with the cannabis cultivation activities. The cannabis cultivator is responsible for meeting all requirements under the California ESA and the federal ESA.</p>

#	TERM
5.	<p>A Regional Water Board may adopt site-specific WDRs or an enforcement order for a cannabis cultivation facility that does not include requirements consistent with the following if the site-specific WDRs or enforcement order contains sufficient requirements to be protective of water quality:</p> <ul style="list-style-type: none"> • The maximum slope limit of 50 percent in disturbed areas. • The minimum riparian setbacks described herein. • The prohibition against land disturbance activities during the winter period.
6.	<p>To avoid water quality degradation from erosion and sedimentation, land disturbance activities shall not occur during the winter period unless authorized by a Regional Water Board Executive Officer. Cannabis cultivators shall ensure land disturbing activities are completed and site stabilization measures are in place prior to the onset of the winter period. All land disturbing activities during the winter period shall be supervised by a Qualified Professional.²</p>
7.	<p>A California Licensed Timber Operator (LTO)³ shall be used if any commercial tree species are to be removed from the cannabis cultivation site. All timberland conversions shall be permitted and compliant with the Forest Practice Rules and CAL FIRE permitting requirements.</p>
8.	<p>Site improvements and limited repairs may be performed by the cannabis cultivator or contractors as allowed by the Business and Professions Code (Bus. & Prof. Code, section 7044 and/or section 7048). All contracts to perform work that is valued at \$500 or more in combined labor and material costs shall be performed by an appropriately qualified and licensed contractor as required by the California Contractors' State License Board.</p>
9.	<p>During land disturbance activities, the cannabis cultivator shall review and evaluate the applicable daily weather forecast and any applicable 24 hour forecast⁴ at least once per 24 hour period and maintain records of the weather forecast for each day land disturbance activities are conducted. The cannabis cultivator shall cease land disturbance activities and shall implement erosion control Requirements described in this Policy during any 24 hour period in which the applicable daily weather forecast or any 24 hour forecast reports a 50 percent or greater chance of precipitation greater than 0.5 inch per 24 hours.</p>

² Although emergency mitigation measures may not require obtaining coverage under the Construction Storm Water Program, the elevated threat to water quality caused by emergency mitigation or remediation work performed during the winter period requires planning and supervision by an appropriately Qualified Professional to protect water quality, such as an appropriately certified or registered Storm Water Pollution Prevention Plan Developer.

³ Licensed Timber Operators or "LTOs" are persons who have been licensed under the Forest Practice Act law and are authorized to conduct forest tree cutting and removal operations.

⁴ If available, the cannabis cultivator shall refer to the weather forecast developed by the National Oceanic and Atmospheric Administration (NOAA) for the local [National Weather Service Office](http://www.weather.gov) (<http://www.weather.gov>). If the NOAA forecast is not available, a forecast by a local television news or radio broadcast shall be used.

#	TERM
	Consistent with Lahontan Regional Water Board Order No R6T-2016-0010, an anticipated precipitation event within the Lake Tahoe Hydrologic Unit (Department of Water Resources Hydrologic Unit No.634.00) is any weather pattern that is forecast to have a 30 percent or greater chance of producing 0.1 inch of precipitation as rainfall in the project area. Cannabis cultivators located in the Lake Tahoe Hydrologic Unit shall cease land disturbance activities and shall implement erosion control Requirements described in this Policy during any 24 hour period in which the applicable daily weather forecast or any 24 hour forecast reports a 30 percent or greater chance of precipitation greater than 0.1 inch per 24 hours. This requirement may be updated based on amendments to the Lahontan Regional Water Board construction storm water general order.
10.	Prior to commencing any cannabis land development or site expansion activities, the cannabis cultivator shall retain a Qualified Biologist to identify sensitive plant, wildlife species, or communities at the proposed development site. If sensitive plant, wildlife species, or communities are identified, the cannabis cultivator and Qualified Biologist shall consult with CDFW and CAL FIRE to designate a no-disturbance buffer to protect identified sensitive plant, wildlife species, and communities. A copy of the report shall be submitted to the appropriate Regional Water Board.
11.	To prevent transfer of invasive species, ⁵ all equipment used at the cannabis cultivation site, including excavators, graders, etc., shall be cleaned before arriving and before leaving the site.
12.	The cannabis cultivator shall comply with all applicable requirements of the State Water Board and Regional Water Boards' (collectively Water Boards) water quality control plans and policies.
13.	The cannabis cultivator shall immediately report any significant hazardous material release or spill that causes a film or sheen on the water's surface, leaves a sludge or emulsion beneath the water's surface, or a release or threatened release of a hazardous material that may potentially discharge to waters of the state, to the California Office of Emergency Services at (800) 852-7550 and the local Unified Program Agency. ⁶ The cannabis cultivator shall also immediately notify the appropriate Regional Water Board and CDFW of the release.
14.	The cannabis cultivator shall comply with all water quality objectives/standards, policies, and implementation plans adopted or approved pursuant to the Porter-

⁵ CDFW defines invasive species as organisms (plants, animals, or microbes) that are not native to an environment, and once introduced, they establish, quickly reproduce and spread, and cause harm to the environment, economy, or human health. Cannabis cultivators may refer to CDFW Internet webpage for guidance on decontamination methods and species of concern. See [CDFW's invasive species webpage](https://www.wildlife.ca.gov/Conservation/Invasives) at: <https://www.wildlife.ca.gov/Conservation/Invasives>.

⁶ Visit the [Unified Program Agency website](http://cersapps.calepa.ca.gov/public/directory) at <http://cersapps.calepa.ca.gov/public/directory> for local contact information. If internet service is not available call 911 to report the hazardous material release.

#	TERM
	Cologne Water Quality Control Act (California Water Code section 13000, et seq.) or CWA section 303 (33 U.S.C. § 1313).
15.	<p>During reasonable hours, the cannabis cultivator shall allow the Water Boards, CDFW, CAL FIRE, and any other authorized representatives of the Water Boards, CDFW, or CAL FIRE upon presentation of a badge, employee identification card, or similar credentials, to:</p> <ul style="list-style-type: none"> a) enter premises and facilities where cannabis is cultivated; where water is diverted, stored, or used; where wastes are treated, stored, or disposed of; or in which any records are kept; b) access and copy, any records required to be kept under the terms and conditions of this Policy; c) inspect, photograph, and record audio and video, any cannabis cultivation sites, and associated premises, facilities, monitoring equipment or device, practices, or operations regulated or required by this Policy; and d) sample, monitor, photograph, and record audio and video of site conditions, any discharge, waste material substances, or water quality parameters at any location for the purposes of assuring compliance with this Policy.
16.	The State Water Board may modify this Policy to implement new or revised water quality standards, policies, or water quality control plans; total maximum daily loads (TMDLs), TMDL implementation plans, or revisions to the California Water Code or CWA.
17.	The State Water Board may modify this Policy and the terms and conditions of water right registrations if monitoring results indicate that cannabis cultivation activities could violate instream flow requirements, water quality objectives, or impair the beneficial uses of a waterbody or its tributaries.
18.	Cannabis cultivators shall not commit trespass. Nothing in this Policy or any program implementing this Policy shall be construed to authorize cannabis cultivation: (a) on land not owned by the cannabis cultivator without the express written permission of the landowner; or (b) inconsistent with a conservation easement, open space easement, or greenway easement. This includes, but is not limited to, land owned by the United States or any department thereof, the State of California or any department thereof, any local agency, or any other person who is not the cannabis cultivator. This includes, but is not limited to, any land owned by a California Native American tribe, as defined in section 21073 of the Public Resources Code, whether or not the land meets the definition of tribal lands and includes lands owned for the purposes of preserving or protecting Native American cultural resources of the kinds listed in Public Resources Code section 5097.9 and 5097.993. This includes, but is not limited to, conservation easements held by a qualifying California Native American tribe pursuant to Civil Code section 815.3 and greenway easements held by a qualifying California Native American tribe pursuant to Civil Code section 816.56.

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19.	<p>Prior to acting on a cannabis cultivator’s request to cultivate cannabis on tribal lands⁷ or within 600 feet of tribal lands, the Water Boards will notify the governing body of any affected California Native American tribe or the governing body’s authorized representative, as applicable. A 45-day review period will commence upon receipt of the notice by the affected tribe.</p> <p>During the 45-day review period, the affected tribe may, at its discretion, accept, reject, or not act regarding the cannabis cultivation proposal. If the tribe rejects the proposed cultivation, the cannabis cultivator is prohibited from cultivating cannabis on or within 600 feet of the affected tribe’s tribal lands. If the affected tribe accepts the cannabis cultivation proposal or does not act during the 45-day review period, the Water Boards may proceed with a decision on the cannabis cultivation request as though the affected tribe accepted the cannabis cultivation proposal. The Water Boards will consider requests to extend the 45-day review period on a case by case basis.</p> <p>The governing bodies of California Native American tribes may, at their discretion, notify the State Water Board’s Executive Director in writing that they: a) reject all proposed cannabis cultivation; or b) waive the 45-day review period for all current and future proposed cannabis cultivation on their tribal lands, on portions of their tribal lands, or within 600 feet of their tribal lands. Upon the Executive Director’s receipt of written notice, the Water Boards will, based on the nature of the request, either:</p> <ol style="list-style-type: none"> a. Not approve cannabis cultivation proposals on or within 600 feet of the affected tribe’s tribal lands, as applicable; or b. Abide by the waiver and, at the Water Boards discretion, act on cannabis cultivation requests on or within 600 feet of tribal lands, as applicable, as though the affected tribe accepted the proposal. <p>The governing bodies of California Native American tribes may, at their discretion, withdraw a previously issued decision regarding cannabis cultivation on or within 600 feet of their tribal lands. In such instances, the governing body of the affected tribe should notify the State Water Board’s Executive Director in writing. The Water Boards will abide by the withdrawal of the affected tribe’s decision for any new cannabis cultivation proposals received after the date the State Water Board Executive Director has notified the governing body of the affected tribe that its decision was received. The Water Boards will coordinate with the affected tribe to address existing permitted cannabis cultivation sites on the affected tribe’s lands, as necessary.</p> <p>Nothing in this provision shall be construed to modify or interpret tribal law or tribal jurisdiction in any way.</p>

⁷ “Tribal lands” means lands recognized as “Indian country” within the meaning of title 18, United States Code, section 1151.

#	TERM
20.	<p>No cannabis cultivation activities shall occur within 600 feet of an identified tribal cultural resource site. The State Water Board may modify this requirement for specific identified tribal cultural resource sites at the request of an affected California Native American tribe(s) after consultation with the affected tribe(s). The cannabis cultivator is solely responsible for identifying any tribal cultural resource sites⁸ within the cannabis cultivation area.</p>
21.	<p>Prior to land disturbance activities for new or expanded cannabis cultivation activities, the cannabis cultivator shall either conduct or request a records search of potential Native American archeological or cultural resources at a California Historical Resources Information System (CHRIS) information center and document the results. Any person who meets qualification requirements for access to the CHRIS may conduct or request the initial CHRIS records search and document the results. The requirement to conduct or request a CHRIS records search may be satisfied by using the results of a previous CHRIS records search completed within the previous 10 years for the specific parcel or parcels where new or expanded cannabis cultivation activities are proposed to occur.</p> <p>Prior to land disturbance activities for new or expanded cannabis cultivation activities, the cannabis cultivator shall also request a search of the Sacred Lands Inventory that is maintained by the Native American Heritage Commission pursuant to Public Resources Code sections 5097.94, subdivision (a), and 5097.96 (Sacred Lands Inventory). If the Sacred Lands Inventory search reveals the presence or potential presence of Native American places of special or social significance to Native Americans, Native American known graves or cemeteries, or Native American sacred places, the cannabis cultivator shall consult with the tribe or tribes that are culturally affiliated with the area in which these Native American cultural resources exist or potentially exist prior to conducting any land disturbance activities. The information provided by tribes through consultation with the cannabis cultivator shall be maintained as confidential by the cannabis cultivator and its agents. A new Sacred Lands Inventory search is always required prior to ground disturbing activities for new or expanded cannabis cultivation.</p> <p>The cannabis cultivator shall notify the Appropriate Person within seven days of receiving a CHRIS positive result or Sacred Lands Inventory positive result. The Appropriate Person is the Deputy Director for Water Rights (Deputy Director) if the cannabis cultivator is operating under the Cannabis Small Irrigation Use Registration (SIUR), the Executive Officer of the applicable Regional Water Board (Executive Officer) if the cannabis cultivator is operating under the Cannabis Cultivation General Order or Cannabis General Water Quality Certification, or both if the cannabis cultivator is operating under both programs.</p>

⁸ "Identified tribal cultural resource site" means a tribal cultural resource that meets the requirements of section 21074, subdivision (a)(1) of the Public Resources Code.

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	<p>In the event that prehistoric archeological materials or indicators are identified in a CHRIS positive result, the cannabis cultivator shall also notify the Native American Heritage Commission within seven days of receiving the CHRIS positive result and request a list of any California Native American tribes that are potentially culturally affiliated with the positive result. The cannabis cultivator shall notify any potentially culturally affiliated California Native American tribes of the CHRIS positive result within 48 hours of receiving a list from the Native American Heritage Commission.</p> <p>The cannabis cultivator shall promptly retain a Professional Archeologist⁹ to evaluate the CHRIS positive result and recommend appropriate conservation measures. In the event of a Sacred Lands Inventory positive result, the cannabis cultivator shall develop appropriate mitigation and conservation measures in consultation with the affected California Native American tribe, and shall promptly retain a Professional Archeologist to assist in this task in the event of a Sacred Lands Inventory positive result related to human remains or archeological resources. The cannabis cultivator shall submit proposed mitigation and conservation measures to the Appropriate Person(s) (Deputy Director for the Cannabis SIUR and Executive Officer for the Cannabis Cultivation General Order or Cannabis General Water Quality Certification) for written approval. The Appropriate Person may require all appropriate measures necessary to conserve archeological resources and tribal cultural resources, including but not limited to Native American monitoring, preservation in place, and archeological data recovery.</p> <p>In the event that prehistoric archeological materials or indicators are identified in a CHRIS positive result, or in the event of a Sacred Lands Inventory positive result, the cannabis cultivator shall also provide a copy of the final proposed mitigation and conservation measures to any culturally affiliated California Native American tribes identified by the Native American Heritage Commission. The Appropriate Person will carefully consider any comments or mitigation measure recommendations submitted by culturally affiliated California Native American tribes with the goal of conserving tribal cultural resources and prehistoric archeological resources with appropriate dignity.</p> <p>Ground-disturbing activities shall not commence until all approved measures have been completed to the satisfaction of the Deputy Director and/or Executive Officer, as applicable.</p>

⁹ A professional archeologist is one that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.

#	TERM
22.	<p>If any buried archeological materials or indicators¹⁰ are uncovered or discovered during any cannabis cultivation activities, all ground-disturbing activities shall immediately cease within 100 feet of the find.</p> <p>The cannabis cultivator shall notify the Appropriate Person within 48 hours of any discovery. The Appropriate Person is the Deputy Director if the cannabis cultivator is operating under the Cannabis SIUR, the Regional Water Board Executive Officer if the cannabis cultivator is operating under the Cannabis Cultivation General Order or Cannabis General Water Quality Certification, or both if the cannabis cultivator is operating under both programs.</p> <p>In the event that prehistoric archeological materials or indicators are discovered, the cannabis cultivator shall also notify the Native American Heritage Commission within 48 hours of any discovery and request a list of any California Native American tribes that are potentially culturally affiliated with the discovery. The cannabis cultivator shall notify any potentially culturally affiliated California Native American tribes of the discovery within 48 hours of receiving a list from the Native American Heritage Commission.</p> <p>The cannabis cultivator shall promptly retain a Professional Archeologist¹¹ to evaluate the discovery. The cannabis cultivator shall submit proposed mitigation and conservation measures to the Appropriate Person(s) (Deputy Director for the Cannabis SIUR and Regional Water Board Executive Officer for the Cannabis Cultivation General Order or Cannabis General Water Quality Certification) for written approval. The Appropriate Person may require all appropriate measures necessary to conserve archeological resources and tribal cultural resources, including but not limited to Native American monitoring, preservation in place, and archeological data recovery.</p> <p>In the event of a discovery of prehistoric archeological materials or indicators are discovered, the cannabis cultivator shall also provide a copy of the final proposed mitigation and conservation measures to any culturally affiliated California Native American tribes identified by the Native American Heritage Commission. The Appropriate Person will carefully consider any comments or mitigation measure recommendations submitted by culturally affiliated California Native American tribes with the goal of conserving prehistoric archeological resources and tribal cultural resources with appropriate dignity.</p> <p>Ground-disturbing activities shall not resume within 100 feet of the discovery until all approved measures have been completed to the satisfaction of the Deputy Director and/or Executive Officer, as applicable.</p>

¹⁰ Prehistoric archeological indicators include, but are not limited to: obsidian and chert flakes and chipped stone tools; bedrock outcrops and boulders with mortar cups; ground stone implements (grinding slabs, mortars, and pestles) and locally darkened midden soils containing some of the previously listed items plus fragments of bone, fire affected stones, shellfish, or other dietary refuse.

#	TERM
23.	<p>Upon discovery of any human remains, cannabis cultivators shall immediately comply with Health and Safety Code section 7050.5 and, if applicable, Public Resources Code section 5097.98. The following actions shall be taken immediately upon the discovery of human remains:</p> <p>All ground-disturbing activities in the vicinity of the discovery shall stop immediately. The cannabis cultivator shall immediately notify the county coroner. Ground disturbing activities shall not resume until the requirements of Health and Safety Code section 7050.5 and, if applicable, Public Resources Code section 5097.98 have been met. The cannabis cultivator shall ensure that the human remains are treated with appropriate dignity.</p> <p>Per Health and Safety Code section 7050.5, the coroner has two working days to examine human remains after being notified by the person responsible for the excavation, or by their authorized representative. If the remains are Native American, the coroner has 24 hours to notify the Native American Heritage Commission.</p> <p>Per Public Resources Code section 5097.98, the Native American Heritage Commission will immediately notify the persons it believes to be the most likely descended from the deceased Native American. The most likely descendent has 48 hours to make recommendations to the landowner or representative for the treatment or disposition, with proper appropriate dignity, of the human remains and any associated grave goods. If the Native American Heritage Commission is unable to identify a descendant; the mediation provided for pursuant to subdivision (k) of Public Resources Code section 5097.94, if invoked, fails to provide measures acceptable to the landowner; or the most likely descendent does not make recommendations within 48 hours; and the most likely descendants and the landowner have not mutually agreed to extend discussions regarding treatment and disposition pursuant to subdivision (b)(2) of Public Resources Code section 5097.98, the landowner or their authorized representative shall reinter the human remains and items associated with the Native American human remains with appropriate dignity on the property in a location not subject to further and future disturbance consistent with subdivision (e) of Public Resources Code section 5097.98. If the landowner does not accept the descendant's recommendations, the landowner or the descendants may request mediation by the Native American Heritage Commission pursuant to Public Resources Code section 5097.94, subdivision (k).</p>
24.	<p>Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water</p>

Historic period site indicators generally include, but are not limited to: fragments of glass, ceramic and metal objects; milled and split lumber; and structure and feature remains such as building foundations, privy pits, wells and dumps; and old trails.

¹¹ A professional archeologist is one that is qualified by the Secretary of Interior, Register of Professional Archaeologists, or Society for California Archaeology.

#	TERM
	Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.
25.	Cannabis cultivators shall not discharge waste in a manner that creates or threatens to create a condition of pollution or nuisance, as defined by Water Code section 13050.
26.	<p>Except as allowed and authorized in this Policy, cannabis cultivators shall not discharge:</p> <ul style="list-style-type: none"> • irrigation runoff, tailwater, sediment, plant waste, or chemicals to surface water or via surface runoff; • waste classified as hazardous (California Code of Regulations, title 23, section 2521(a)) or defined as a designated waste (Water Code section 13173); or • waste in violation of, or in a manner inconsistent with, the appropriate Water Quality Control Plan(s).
27.	<p>Unless authorized by separate waste discharge requirements, the Cannabis Cultivation General Order, or a CWA section 404/401 permit, the following discharges are prohibited:</p> <ul style="list-style-type: none"> • any waste that could affect the quality of the waters of the state; or • wastewater from cannabis manufacturing activities defined in Business and Professions Code section 26100, indoor grow operations, or other industrial wastewater to an onsite wastewater treatment system (e.g., septic tank and associated disposal facilities), to surface water, or to land.
28.	Unless authorized by a Regional Water Board site-specific WDR, cannabis cultivators shall not cultivate cannabis or have cannabis cultivation related land disturbance on slopes greater than 50 percent.
29.	Cannabis cultivators shall not use a cesspool for domestic or industrial wastewater disposal. Cannabis cultivators shall not install or continue use of an outhouse, pit-privy, pit-toilet, or similar device without approval from the Regional Water Board Executive Officer of the applicable Regional Water Board.
30.	In timberland areas, cannabis cultivators shall not remove commercial tree species or other vegetation within 150 feet of fish bearing water bodies or 100 feet of aquatic habitat for non-fish aquatic species (e.g., aquatic insects) prior to obtaining all applicable permits required from CAL FIRE, CDFW (i.e., LSA Agreement), and/or the Regional Water Board Executive Officer.
31.	Tier 1 or 2 cannabis cultivators located on slopes greater than 30% and less than 50% must submit a Site Erosion and Sediment Control Plan to the Regional Water Board Executive Officer for any cannabis-related land development or alteration. The Site Erosion and Sediment Control Plan shall be approved by the applicable Regional

#	TERM
	Water Board Executive Officer prior to the cannabis cultivator initiating or expanding any land disturbance. The Regional Water Board Executive Officer may deny the request to conduct new land disturbance activities for cannabis cultivation if local conditions (e.g., soil type, site instability, proximity to a waterbody, etc.) do not allow for adequate erosion and sediment control measures to ensure discharges to waters of the state will not occur.
32.	Tier 1 or 2 cannabis cultivators with any portion of the disturbed areas existing within the setbacks shall submit a Disturbed Area Stabilization Plan to the Regional Water Board Executive Officer. The Disturbed Area Stabilization Plan shall be approved by the applicable Regional Water Board Executive Officer prior to the cannabis cultivator initiating any land stabilization activities. This requirement does not apply to disturbed areas resulting from activities authorized under 404/401 CWA permits, a CDFW LSA Agreement, coverage under the Cannabis Cultivation General Order water quality certification, or site-specific WDRs issued by the Regional Water Board.
33.	Cannabis cultivators under any Cannabis Cultivation General Order or individual WDRs implementing this Policy shall self-certify that they have complied with or will comply with all applicable Requirements in this Policy no later than the onset of the winter period of the same year as the application date and each year thereafter. If application occurs after the onset of the winter period, cannabis cultivators shall self-certify that all applicable Requirements in this Policy will be implemented by the onset of the winter period of the next calendar year, and each year thereafter. Those cannabis cultivators that cannot implement all applicable Requirements by the onset of the winter period shall, within 90 days of application submittal, submit to the Executive Officer of the applicable Regional Water Board a time schedule and scope of work for use by the Regional Water Board in developing a compliance schedule.
34.	Cannabis cultivators shall implement interim Requirements immediately following land disturbance, to minimize discharges of waste constituents. Interim Requirements are those that are implemented immediately upon site development. Cannabis cultivators shall complete all winterization Requirements prior to the onset of the winter period to prevent waste discharges that may result in water quality degradation.
35.	Cannabis cultivators shall not cause downstream exceedance of applicable water quality objectives identified in the applicable water quality control plan(s).
36.	The landowner is ultimately responsible for any water quality degradation that occurs on or emanates from its property and for water diversions that are not in compliance with this Policy. Landowners will be named as responsible parties and will be notified if a Cannabis Cultivation General Order Notice of Applicability or conditional exemption has been issued for cannabis activities on their property. The cannabis cultivator and the landowner will be held responsible for correcting non-compliance.

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37.	<p data-bbox="284 277 1513 861">Cannabis cultivators shall comply with the minimum riparian setbacks described below for all land disturbance, cannabis cultivation activities, and facilities (e.g., material or vehicle storage, petroleum powered pump locations, off-stream water storage areas, and chemical toilet placement). The riparian setbacks shall be measured from the waterbody’s bankfull stage (high flow water levels that occur every 1.5 to 2 years) or from the top edge of the waterbody bank in incised channels, whichever is more conservative. Riparian setbacks for springheads shall be measured from the springhead in all directions (circular buffer). Riparian setbacks for wetlands shall be measured from the edge of wetland as delineated by a Qualified Professional with experience implementing the Corps of Engineers Wetlands Delineation Manual (with regional supplements). The Regional Water Board Executive Officer may require additional riparian setbacks or additional requirements, as needed, to meet the performance requirement of protecting surface water from discharges that threaten water quality. If the cannabis cultivation site cannot be managed to protect water quality, the Executive Officer of the applicable Regional Water Board may revoke authorization for cannabis cultivation activities at the cannabis cultivation site.</p> <p data-bbox="284 877 711 913">Minimum Riparian Setbacks^{1,2}</p> <table border="1" data-bbox="329 930 1469 1390"> <thead> <tr> <th data-bbox="336 930 1021 1003">Common Name</th> <th data-bbox="1021 930 1274 1003">Watercourse Class³</th> <th data-bbox="1274 930 1469 1003">Distance</th> </tr> </thead> <tbody> <tr> <td data-bbox="336 1003 1021 1077">Perennial watercourses, waterbodies (e.g. lakes, ponds), or springs⁴</td> <td data-bbox="1021 1003 1274 1077">I</td> <td data-bbox="1274 1003 1469 1077">150 ft.</td> </tr> <tr> <td data-bbox="336 1077 1021 1125">Intermittent watercourses or wetlands</td> <td data-bbox="1021 1077 1274 1125">II</td> <td data-bbox="1274 1077 1469 1125">100 ft.</td> </tr> <tr> <td data-bbox="336 1125 1021 1173">Ephemeral watercourses</td> <td data-bbox="1021 1125 1274 1173">III</td> <td data-bbox="1274 1125 1469 1173">50 ft.</td> </tr> <tr> <td data-bbox="336 1173 1021 1314">Man-made irrigation canals, water supply reservoirs, or hydroelectric canals that support native aquatic species</td> <td data-bbox="1021 1173 1274 1314">IV</td> <td data-bbox="1274 1173 1469 1314">Established Riparian Vegetation Zone</td> </tr> <tr> <td data-bbox="336 1314 1021 1390">All other man-made irrigation canals, water supply reservoirs, or hydroelectric canals</td> <td data-bbox="1021 1314 1274 1390">IV</td> <td data-bbox="1274 1314 1469 1390">N/A</td> </tr> </tbody> </table> <p data-bbox="284 1423 1513 1543">¹ A Regional Water Board may adopt site-specific WDRs or an enforcement order for a cannabis cultivator with requirements that are inconsistent with the setbacks in this table if the Executive Officer determines that the site-specific WDRs or enforcement order contains sufficient requirements to be protective of water quality.</p> <p data-bbox="284 1543 1513 1663">² Cannabis cultivators enrolled in a Regional Water Board order adopting WDRs or a waiver of WDRs for cannabis cultivation activities prior to October 17, 2017, may retain reduced setbacks applicable under that Regional Water Board order unless the Regional Water Board’s Executive Officer determines that the reduced setbacks applicable under that order are not protective of water quality.</p> <p data-bbox="284 1663 1513 1785">³ Except where more restrictive, the stream class designations are equivalent to the Forest Practice Rules Water Course and Lake Protection Zone definitions (California Code of Regulations, title 14, Chapter 4. Forest Practice Rules, Subchapters 4, 5, and 6 Forest District Rules, Article 6 Water Course and Lake Protection).</p> <p data-bbox="284 1785 1513 1875">⁴ Spring riparian setbacks default to the applicable watercourse riparian setback 150 feet downstream and/or upstream of the spring’s confluence with the watercourse or 150 feet downstream of the point where the spring forms a watercourse with defined bed and banks.</p>	Common Name	Watercourse Class ³	Distance	Perennial watercourses, waterbodies (e.g. lakes, ponds), or springs ⁴	I	150 ft.	Intermittent watercourses or wetlands	II	100 ft.	Ephemeral watercourses	III	50 ft.	Man-made irrigation canals, water supply reservoirs, or hydroelectric canals that support native aquatic species	IV	Established Riparian Vegetation Zone	All other man-made irrigation canals, water supply reservoirs, or hydroelectric canals	IV	N/A
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#	TERM
38.	<p>Indoor cannabis cultivation¹² structures are exempt from the riparian setback (Requirement 37) and tribal buffer (Requirement 19) if either of the following conditions are met:</p> <ul style="list-style-type: none"> a) The indoor cannabis cultivation structure: <ul style="list-style-type: none"> i. has a building permit or other similar authorization issued by a federally recognized Indian tribe on file with the county, city, local jurisdiction, or federally recognized Indian tribe, as applicable, and started construction prior to October 1, 2018; ii. has a valid certificate of occupancy or amended certificate of occupancy for indoor cannabis cultivation; and iii. either (A) is connected to and discharges any industrial wastewater to a permitted wastewater treatment collection system and facility that accepts cannabis cultivation wastewater, or (B) discharges any industrial wastewater directly to an appropriately designed and connected storage tank located outside of the riparian setback, and the discharge is properly disposed of by a permitted wastewater hauler at a permitted wastewater treatment facility that accepts cannabis cultivation wastewater. <p>OR</p> <ul style="list-style-type: none"> b) The indoor cannabis cultivation structure: <ul style="list-style-type: none"> iv. has a building permit or other similar authorization issued by a federally recognized Indian tribe on file with the county, city, local jurisdiction, or federally recognized Indian tribe, as applicable, and construction started on or after October 1, 2018; v. has a valid certificate of occupancy or amended certificate of occupancy for indoor cannabis cultivation; and vi. is connected to and discharges any industrial wastewater to a permitted wastewater treatment collection system and facility that accepts cannabis cultivation wastewater. If the permitted wastewater treatment collection system and facility that the structure is connected to does not accept cannabis cultivation wastewater, the structure may still qualify for the riparian setback and tribal buffer exemptions if the structure discharges any industrial wastewater directly to an appropriately designed and connected storage tank located outside of the riparian setback, and the discharge is properly disposed of by a permitted wastewater hauler at a permitted wastewater treatment facility that accepts cannabis cultivation wastewater.

¹² Indoor cannabis cultivation is cannabis cultivation that occurs within a structure with a permanent roof, a permanent relatively impermeable floor (e.g., concrete or asphalt paved), and either 1) discharges all industrial wastewaters generated to a permitted wastewater treatment collection system and facility that accepts cannabis cultivation wastewater; or 2) collects all industrial wastewater in an appropriate storage container to be collected and properly disposed of by a permitted wastewater hauler at a permitted wastewater treatment facility that accepts cannabis cultivation wastewater.

#	TERM
	<p>The riparian setback exemption shall not apply if the Regional Water Board's Executive Officer determines that an exemption from the riparian setbacks is not protective of water quality.</p> <p>All other applicable Requirements apply to any cannabis cultivation activities, including setbacks for cannabis cultivation activities that occur outside of the permitted indoor cannabis cultivation structure.</p>

Cannabis General Water Quality Certification

For the purposes of section 401 of the Clean Water Act, the State Water Board certifies that cannabis cultivation activities in compliance with the conditions of the Policy and Cannabis Cultivation General Order will comply with sections 301, 302, 303, 306, and 307 of the Clean Water Act, and with applicable provisions of State law, subject to the following additional terms and conditions:

#	TERM
1.	This certification action is subject to modification or revocation upon administrative or judicial review; including review and amendment pursuant to Water Code section 13330 and California Code of Regulations, title 23, section 3867.
2.	This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to California Code of Regulations, title 23, section 3855, subdivision (b), and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3.	This certification is conditioned upon total payment of any fee required under California Code of Regulations, title 23, division 3, chapter 28.
4.	A cannabis cultivator seeking water quality certification coverage for activities in surface waters shall notify the Executive Officer of the Regional Water Board or State Water Board Executive Director at least 60 days prior to commencement of the activity and submit information regarding the construction schedule and other relevant information. Work may not commence until the cannabis cultivator is provided authorization by the appropriate Executive Officer of the Regional Water Board or Executive Director of the State Water Board. The Executive Officer of the Regional Water Board or Executive Director of the State Water Board may include specific monitoring requirements for turbidity and other constituents that may be associated with the activity to ensure applicable state water quality standards are met.
5.	The authorization of this certification for any coverage under this Cannabis General Water Quality Certification for dredge and fill activities expires five years from the date this Policy, and any subsequent amendment to the Policy, is approved by the Office of Administrative Law.
6.	Upon completion of the discharges of dredged or fill material, the cannabis cultivator shall submit a Notice of Completion certifying that all the conditions and monitoring and reporting requirements of this General Water Quality Certification, including the Policy, Cannabis Cultivation General Order (if applicable), and conditions imposed by the Regional Water Board Executive Officer or State Water Board Executive Director, have been met.
7.	All Policy and Cannabis Cultivation General Order Requirements, standard conditions, general terms and provisions, and prohibitions are enforceable conditions of this General Water Quality Certification.

#	TERM
8.	In the event of any violation or threatened violation of the conditions of this General Water Quality Certification, the violation or threatened violation shall be subject to any remedies, penalties, processes, or sanctions as provided for under state law. For purposes of section 401(d) of the Clean Water Act, the applicability of any state law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this certification.
9.	This General Water Quality Certification may be modified as needed by the Executive Director of the State Water Board.

SECTION 2 – REQUIREMENTS RELATED TO WATER DIVERSIONS AND WASTE DISCHARGE FOR CANNABIS CULTIVATION

The following Requirements apply to any water diversion or waste discharge related to cannabis cultivation.

Land Development and Maintenance, Erosion Control, and Drainage Features

Limitations on Earthmoving

#	TERM
1.	<p>Cannabis cultivators shall not conduct grading activities for cannabis cultivation land development or alteration on slopes exceeding 50 percent grade, or as restricted by local county or city permits, ordinances, or regulations for grading, agriculture, or cannabis cultivation; whichever is more stringent shall apply.</p> <p>The grading prohibition on slopes exceeding 50 percent does not apply to site mitigation or remediation if the cannabis cultivator is issued separate WDRs or an enforcement order for the activity by the Regional Water Board Executive Officer.</p>
2.	<p>Finished cut and fill slopes, including side slopes between terraces, shall not exceed slopes of 50 percent and should conform to the natural pre-grade slope whenever possible.</p>
3.	<p>Cannabis cultivators shall not drive or operate vehicles or equipment within the riparian setbacks or within waters of the state unless authorized under 404/401 CWA permits, a CDFW LSA Agreement, coverage under the Cannabis Cultivation General Order water quality certification, or site-specific WDRs issued by the Regional Water Board. This requirement does not prohibit driving on established, maintained access roads that are in compliance with this Policy.</p>
4.	<p>Cannabis cultivation land development and access road construction shall be designed by Qualified Professionals. Cannabis cultivators shall conduct all construction or land development activities to minimize grading, soil disturbance, and disturbance to aquatic and terrestrial habitat.</p>
5.	<p>The cannabis cultivator shall control all dust related to cannabis cultivation activities to ensure dust does not produce sediment-laden runoff. The cannabis cultivator shall implement dust control measures, including, but not limited to, pre-watering of excavation or grading sites, use of water trucks, track-out prevention, washing down vehicles or equipment before leaving a site, and prohibiting land disturbance activities when instantaneous wind speeds (gusts) exceed 25 miles per hour. Cannabis cultivators shall grade access roads in dry weather while moisture is still present in soil to minimize dust and to achieve design soil compaction, or when needed use a water truck to control dust and soil moisture.</p>

Construction Equipment Use and Limitations

#	TERM
6.	<p>Cannabis cultivators shall not conduct grading activities for cannabis cultivation land development or alteration on slopes exceeding 50 percent grade, or as restricted by local county or city permits, ordinances, or regulations for grading, agriculture, or cannabis cultivation; whichever is more stringent shall apply.</p> <p>The grading prohibition on slopes exceeding 50 percent does not apply to site mitigation or remediation if the cannabis cultivator is issued separate WDRs or an enforcement order for the activity by the Regional Water Board Executive Officer.</p>
7.	<p>Cannabis cultivators shall stage and store equipment, materials, fuels, lubricants, solvents, or hazardous or toxic materials in locations that minimize the potential for discharge to waters of the state. At a minimum, the following measures shall be implemented:</p> <ul style="list-style-type: none"> a) Designate an area outside the riparian setback for equipment storage, short-term maintenance, and refueling. Cannabis cultivator shall not conduct any maintenance activity or refuel equipment in any location where the petroleum products or other pollutants may enter waters of the state as per Fish and Game Code section 5650 (a)(1). b) Frequently inspect equipment and vehicles for leaks. c) Immediately clean up leaks, drips, and spills. Except for emergency repairs that are necessary for the safe transport of equipment or vehicles to an appropriate repair facility; performing equipment or vehicle repairs, maintenance, and washing onsite is prohibited. d) If emergency repairs generate waste fluids, ensure they are contained and properly disposed or recycled off-site. e) Properly dispose of all construction debris off-site. <p>Use dry cleanup methods (e.g., absorbent materials, cat litter, and/or rags) whenever possible. Sweep up, contain, and properly dispose of spilled dry materials.</p>

Erosion Control

#	TERM
8.	<p>The cannabis cultivator shall use appropriate erosion control measures to minimize erosion of disturbed areas, potting soil, or bulk soil amendments to prevent discharges of waste. Fill soil shall not be placed where it may discharge into surface water. If used, weed-free straw mulch shall be applied at a rate of two tons per acre of exposed soils and, if warranted by site conditions, shall be secured to the ground.</p>

#	TERM
9.	<p>The cannabis cultivator shall not plant or seed noxious weeds. Prohibited plant species include those identified in the California Invasive Pest Plant Council's database, available at: www.cal-ipc.org/paf/. Locally native, non-invasive, and non-persistent grass species may be used for temporary erosion control benefits to stabilize disturbed land and prevent exposure of disturbed land to rainfall. Nothing in this term may be construed as a ban on cannabis cultivation that complies with the terms of this Policy.</p>
10.	<p>Cannabis cultivators shall incorporate erosion control and sediment detention devices and materials into the design, work schedule, and implementation of the cannabis cultivation activities. The erosion prevention and sediment capture measures shall be effective in protecting water quality.</p> <ul style="list-style-type: none"> • Interim erosion prevention and sediment capture measures shall be implemented within seven days of completion of grading and land disturbance activities, and shall consist of erosion prevention measures and sediment capture measures including: <ul style="list-style-type: none"> ○ Erosion prevention measures are required for any earthwork that uses heavy equipment (e.g., bulldozer, compactor, excavator, etc.). Erosion prevention measures may include surface contouring, slope roughening, and upslope storm water diversion. Other types of erosion prevention measures may include mulching, hydroseeding, tarp placement, revegetation, and rock slope protection. ○ Sediment capture measures include the implementation of measures such as gravel bag berms, fiber rolls, straw bale barriers, properly installed silt fences, and sediment settling basins. • Long-term erosion prevention and sediment capture measures shall be implemented as soon as possible and prior to the onset of fall and winter precipitation. Long-term measures may include the use of heavy equipment to reconfigure access roads or improve access road drainage, installation of properly-sized culverts, gravel placement on steeper grades, and stabilization of previously disturbed land. <p>Maintenance of all erosion protection and sediment capture measures is required year-round. Early monitoring allows for identification of problem areas or underperforming erosion or sediment control measures. Verification of the effectiveness of all erosion prevention and sediment capture measures is required as part of winterization activities.</p>

#	TERM
11.	Cannabis cultivators shall only use geotextiles, fiber rolls, and other erosion control measures made of loose-weave mesh (e.g., jute, coconut (coir) fiber, or from other products without welded weaves). To minimize the risk of ensnaring and strangling wildlife, cannabis cultivators shall not use synthetic (e.g., plastic or nylon) monofilament netting materials for erosion control for any cannabis cultivation activities. This prohibition includes photo- or bio-degradable plastic netting.
12.	Cultivation sites constructed on or near slopes with a slope greater than or equal to 30 percent shall be inspected for indications of instability. Indications of instability include the occurrence of slope failures at nearby similar sites, weak soil layers, geologic bedding parallel to slope surface, hillside creep (trees, fence posts, etc. leaning downslope), tension cracks in the slope surface, bulging soil at the base of the slope, and groundwater discharge from the slope. If indicators of instability are present, the cannabis cultivator shall consult with a Qualified Professional to design measures to stabilize the slope to prevent sediment discharge to surface waters.
13.	For areas outside of riparian setbacks or for upland areas, cannabis cultivators shall ensure that rock placed for slope protection is the minimum amount necessary and is part of a design that provides for native plant revegetation. If retaining walls or other structures are required to provide slope stability, they shall be designed by a Qualified Professional.
14.	Cannabis cultivators shall monitor erosion control measures during and after each storm event that produces at least 0.5 in/day or 1.0 inch/7 days of precipitation, and repair or replace, as needed, ineffective erosion control measures immediately.

Access Road/Land Development and Drainage

#	TERM
15.	Access roads shall be constructed consistent with the requirements of California Code of Regulations Title 14, Chapter 4. The Road Handbook describes how to implement the regulations and is available at http://www.pacificwatershed.com/PWA-publications-library . Existing access roads shall be upgraded to comply with the Road Handbook.
16.	Cannabis cultivators shall obtain all required permits and approvals prior to the construction of any access road constructed for cannabis cultivation activities. Permits may include section 404/401 CWA permits, Regional Water Board WDRs (when applicable), CDFW LSA Agreement, and county or local agency permits.

#	TERM
17.	Cannabis cultivators shall ensure that all access roads are hydrologically disconnected to receiving waters to the extent possible by installing disconnecting drainage features, increasing the frequency of (inside) ditch drain relief as needed, constructing out-sloped roads, constructing energy dissipating structures, avoiding concentrating flows in unstable areas, and performing inspection and maintenance as needed to optimize the access road performance.
18.	New access road alignments should be constructed with grades (slopes) of 3- to 8-percent, or less, wherever possible. Forest access roads should generally be kept below 12-percent except for short pitches of 500 feet or less where road slopes may go up to 20-percent. These steeper access road slopes should be paved or rock surfaced and equipped with adequate drainage. Existing access roads that do not comply with these limits shall be inspected by a Qualified Professional to determine if improvements are needed.
19.	Cannabis cultivators shall decommission or relocate existing roads away from riparian setbacks whenever possible. Roads that are proposed for decommissioning shall be abandoned and left in a condition that provides for long-term, maintenance-free function of drainage and erosion controls. Abandoned roads shall be blocked to prevent unauthorized vehicle traffic.
20.	If site conditions prohibit drainage structures (including rolling dips and ditch-relief culverts) at adequate intervals to avoid erosion, the cannabis cultivator shall use bioengineering techniques ¹³ as the preferred measure to minimize erosion (e.g., live fascines). If bioengineering cannot be used, then engineering fixes such as armoring (e.g., rock of adequate size and depth to remain in place under traffic and flow conditions) and velocity dissipaters (e.g., gravel-filled “pillows” in an inside ditch to trap sediment) may be used for problem sites. The maximum distance between water breaks shall not exceed those defined in the Road Handbook.
21.	Cannabis cultivators shall have a Qualified Professional design the optimal access road alignment, surfacing, drainage, maintenance requirements, and spoils handling procedures.
22.	Cannabis cultivators shall ensure that access road surfacing, especially within a segment leading to a waterbody, is sufficient to minimize sediment delivery to the wetland or waterbody and maximize access road integrity. Road surfacing may include pavement, chip-seal, lignin, rock, or other material appropriate for timing and nature of use. All access roads that will be used for winter or wet weather hauling/traffic shall be surfaced. Steeper access road grades require higher quality rock (e.g., crushed angular versus river-run) to remain in place. The use of asphalt grindings is prohibited.
23.	Cannabis cultivators shall install erosion control measures on all access road approaches to surface water diversion sites to reduce the generation and transport of sediment to streams.

¹³ [A Primer on Stream and River Protection for the Regulator and Program Manager: Technical Reference Circular W.D. 02-#1, San Francisco Bay Region, California Regional Water Board](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stream_wetland/streamprotectioncircular.pdf) (April 2003)
http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/stream_wetland/streamprotectioncircular.pdf

#	TERM
24.	Cannabis cultivators shall ensure that access roads are out-sloped whenever possible to promote even drainage of the access road surface, prevent the concentration of storm water flow within an inboard or inside ditch, and to minimize disruption of the natural sheet flow pattern off a hill slope to a stream.
25.	If unable to eliminate inboard or inside ditches, the cannabis cultivator shall ensure adequate ditch relief culverts to prevent down-cutting of the ditch and to reduce water runoff concentration, velocity, and erosion. Ditches shall be designed and maintained as recommended by a Qualified Professional. To avoid point-source discharges, inboard ditches and ditch relief culverts shall be discharged onto vegetated or armored slopes that are designed to dissipate and prevent runoff channelization. Inboard ditches and ditch relief culverts shall be designed to ensure discharges into natural stream channels or watercourses are prevented.
26.	Cannabis cultivators shall ensure that access roads are not allowed to develop or show evidence of significant surface rutting or gulying. Cannabis cultivators shall use water bars and rolling dips as designed by a Qualified Professional to minimize access road surface erosion and dissipate runoff.
27.	Cannabis cultivators shall only grade ditches when necessary to prevent erosion of the ditch, undermining of the banks, or exposure of the toe of the cut slope to erosion. Cannabis cultivators shall not remove more vegetation than necessary to keep water moving, as vegetation prevents scour and filters out sediment.
28.	Access road storm water drainage structures shall not discharge onto unstable slopes, earthen fills, or directly to a waterbody. Drainage structures shall discharge onto stable areas with straw bales, slash, vegetation, and/or rock riprap.
29.	Sediment control devices (e.g., check dams, sand/gravel bag barriers, etc.) shall be used when it is not practical to disperse storm water before discharge to a waterbody. Where potential discharge to a wetland or waterbody exists (e.g., within 200 feet of a waterbody) access road surface drainage shall be filtered through vegetation, slash, other appropriate material, or settled into a depression with an outlet with adequate drainage. Sediment basins shall be engineered and properly sized to allow sediment settling, spillway stability, and maintenance activities.

Drainage Culverts (See also Watercourse Crossings)

#	TERM
30.	Cannabis cultivators shall regularly inspect ditch-relief culverts and clear them of any debris or sediment. To reduce ditch-relief culvert plugging by debris, cannabis cultivators shall use 15- to 24-inch diameter pipes, at minimum. In forested areas with a potential for woody debris, a minimum 18-inch diameter pipe shall be used to reduce clogging. Ditch relief culverts shall be designed by a Qualified Professional based on site-specific conditions.
31.	Cannabis cultivators shall ensure that all permanent watercourse crossings that are constructed or reconstructed are capable of accommodating the estimated 100-year flood flow, including debris and sediment loads. Watercourse crossings shall be designed and sized by a Qualified Professional.

Cleanup, Restoration, and Mitigation

#	TERM
32.	Cannabis cultivators shall limit disturbance to existing grades and vegetation to the actual site of the cleanup or remediation and any necessary access routes.
33.	<p>Cannabis cultivators shall avoid damage to native riparian vegetation. All exposed or disturbed land and access points within the stream and riparian setback with damaged vegetation shall be restored with regional native vegetation of similar native species. Riparian trees over four inches diameter at breast height shall be replaced by similar native species at a ratio of three to one (3:1). Restored areas must be mulched, using at least 2 to 4 inches of weed-free, clean straw or similar biodegradable mulch over the seeded area. Mulching shall be completed within 30 days after land disturbance activities in the areas cease. Revegetation planting shall occur at a seasonally appropriate time until vegetation is restored to pre-cannabis or pre-legacy condition or better.</p> <p>Cannabis cultivators shall stabilize and restore any temporary work areas with native vegetation to pre-cannabis cultivation or pre-legacy conditions or better. Vegetation shall be planted at an adequate density and variety to control surface erosion and re-generate a diverse composition of regional native vegetation of similar native species.</p>
34.	Cannabis cultivators shall avoid damage to oak woodlands. Cannabis cultivator shall plant three oak trees for every one oak tree damaged or removed. Trees may be planted in groves in order to maximize wildlife benefits and shall be native to the local county.
35.	<p>Cannabis cultivators shall develop a revegetation plan for:</p> <ul style="list-style-type: none"> • All exposed or disturbed riparian vegetation areas, • any oak trees that are damaged or removed, and • temporary work areas. <p>Cannabis cultivators shall develop a monitoring plan that evaluates the revegetation plan for five years. Cannabis cultivators shall maintain annual inspections for the purpose of assessing an 85 percent survival and growth of revegetated areas within a five-year period. The presence of exposed soil shall be documented for three years following revegetation work. If the revegetation results in less than an 85 percent success rate, the unsuccessful vegetation areas shall be replanted. Cannabis cultivators shall identify the location and extent of exposed soil associated with the site; pre- and post-revegetation work photos; diagram of all areas revegetated, the planting methods, and plants used; and an assessment of the success of the revegetation program. Cannabis cultivators shall maintain a copy of the revegetation plan and monitoring results onsite and make them available, upon request, to Water Boards staff or authorized representatives. An electronic copy of monitoring results is acceptable in Portable Document Format (PDF).</p>

#	TERM
36.	Cannabis cultivators shall revegetate soil exposed as a result of cannabis cultivation activities with native vegetation by live planting, seed casting, or hydroseeding within seven days of exposure.
37.	Cannabis cultivators shall prevent the spread or introduction of exotic plant species to the maximum extent possible by cleaning equipment before delivery to the cannabis cultivation site and before removal, restoring land disturbance with appropriate native species, and post-cannabis cultivation activities monitoring and control of exotic species. Nothing in this term may be construed as a ban on cannabis cultivation that complies with the terms of this Policy.

Stream Crossing Installation and Maintenance

Limitations on Work in Watercourses and Permanently Poned Areas

#	TERM
38.	Cannabis cultivators shall obtain all applicable permits and approvals prior to doing any work in or around waterbodies or within the riparian setbacks. Permits may include section 404/401 CWA permits, Regional Water Board WDRs (when applicable), and a CDFW LSA Agreement.
39.	Cannabis cultivators shall avoid or minimize temporary stream crossings. When necessary, temporary stream crossings shall be located in areas where erosion potential and damage to the existing habitat is low. Cannabis cultivators shall avoid areas where runoff from access roadway side slopes and natural hillsides will drain and flow into the temporary crossing. Temporary stream crossings that impede fish passage are strictly prohibited on permanent or seasonal fish-bearing streams.
40.	Cannabis cultivators shall avoid or minimize use of heavy equipment ¹⁴ in a watercourse. If use is unavoidable, heavy equipment may only travel or work in a waterbody with a rocky or cobbled channel. Wood, rubber, or clean native rock temporary work pads shall be used on the channel bottom prior to use of heavy equipment to protect channel bed and preserve channel morphology. Temporary work pads and other channel protection shall be removed as soon as possible once the use of heavy equipment is complete.

¹⁴ Heavy equipment is defined as machinery or vehicles, typically used in the building and construction industry (e.g., bulldozers, excavators, backhoes, bobcats, tractors, etc.).

#	TERM
41.	Cannabis cultivators shall avoid or minimize work in or near a stream, creek, river, lake, pond, or other waterbody. If work in a waterbody cannot be avoided, activities and associated workspace shall be isolated from flowing water by directing the water around the work site. If water is present, then the cannabis cultivator shall develop a site-specific plan prepared by a Qualified Professional. The plan shall consider partial or full stream diversion and dewatering. The plan shall consider the use of coffer dams upstream and downstream of the work site and the diversion of all flow from upstream of the upstream dam to downstream of the downstream dam, through a suitably sized pipe with intake screens that protect and prevent impacts to fish and wildlife. Cannabis cultivation activities and associated work shall be performed outside the waterbody from the top of the bank to the maximum extent possible.

Temporary Watercourse Diversion and Dewatering: All Live Watercourses

#	TERM
42.	Cannabis cultivators shall ensure that coffer dams are constructed prior to commencing work and as close as practicable upstream and downstream of the work area. Cofferdam construction using offsite materials, such as clean gravel bags or inflatable dams, is preferred. Thick plastic may be used to minimize leakage, but shall be completely removed and properly disposed of upon work completion. If the coffer dams or stream diversion fail, the cannabis cultivator shall repair them immediately.
43.	When any dam or other artificial obstruction is being constructed, maintained, or placed in operation, the cannabis cultivator shall allow sufficient water at all times to pass downstream to maintain aquatic life below the dam pursuant to Fish and Game Code section 5937.
44.	Gravity flow is the preferred method of temporarily dewatering or diverting water. If a pump is used, the cannabis cultivator shall ensure that the pump is operated at the rate of flow that passes through the cannabis cultivation site. Pumping rates shall not dewater or impound water on the upstream side of the coffer dam. When a diversion pipe is used, it shall be protected from cannabis cultivation activities and maintained to prevent debris blockage.
45.	Cannabis cultivators shall only divert water such that water does not scour the channel bed or banks at the downstream end. Cannabis cultivators shall divert flow in a manner that prevents turbidity, siltation, and pollution and provides flows to downstream reaches. Cannabis cultivators shall provide flows to downstream reaches during all times that the natural flow would have supported aquatic life. Flows shall be of sufficient quality and quantity, and of appropriate temperature to support fish and other aquatic life both above and below the diversion. Block netting and intake screens shall be sized to protect and prevent impacts to fish and wildlife.

#	TERM
46.	Once water has been diverted around the work area, cannabis cultivators may dewater the site to provide an adequately dry work area. Any muddy or otherwise contaminated water shall be pumped to a settling tank, dewatering filter bag, or upland area, or to another location approved by CDFW or the appropriate Regional Water Board Executive Officer prior to re-entering the watercourse.
47.	Upon completion of work, cannabis cultivators shall immediately remove the flow diversion structure in a manner that allows flow to resume with a minimum of disturbance to the channel substrate and that minimizes the generation of turbidity.

Watercourse Crossings

#	TERM
48.	Cannabis cultivators shall ensure that watercourse crossings are designed by a Qualified Professional.
49.	Cannabis cultivators shall ensure that all access road watercourse crossing structures allow for the unrestricted passage of water and shall be designed to accommodate the estimated 100-year flood flow and associated debris (based upon an assessment of the streams potential to generate debris during high flow events). Watercourse crossings shall be designed and sized by a Qualified Professional. Consult CAL FIRE 100 year Watercourse Crossings document for examples and design calculations, available at: http://calfire.ca.gov/resource_mgt/downloads/100%20yr%20revised%208-08-17%20(final-a).pdf .
50.	Cannabis cultivators shall ensure that watercourse crossings allow migration of aquatic life during all life stages supported or potentially supported by that stream reach. Design measures shall be incorporated to ensure water depth and velocity does not inhibit migration of aquatic life. Any access road crossing structure on watercourses that support fish shall be constructed for the unrestricted passage of fish at all life stages, and should use the following design guidelines: <ul style="list-style-type: none"> • CDFW's <i>Culvert Criteria for Fish Passage</i>; • CDFW's <i>Salmonid Stream Habitat Restoration Manual, Volume 2, Part IX: Fish Passage Evaluation at Stream Crossings</i>; and • National Marine Fisheries Service, Southwest Region <i>Guidelines for Salmonid Passage at Stream Crossings</i>.
51.	Cannabis cultivators shall conduct regular inspection and maintenance of stream crossings to ensure crossings are not blocked by debris. Refer to California Board of Forestry Technical Rule No. 5 available at: http://www.calforests.org/wp-content/uploads/2013/10/Adopted-TRA5.pdf .

#	TERM
52.	<p>Cannabis cultivators shall only use rock fords for temporary seasonal crossings on small watercourses where aquatic life passage is not required during the time period of use. Rock fords shall be oriented perpendicular to the flow of the watercourse and designed to maintain the range of surface flows that occur in the watercourse. When constructed, rock shall be sized to withstand the range of flow events that occur at the crossing and rock shall be maintained at the rock ford to completely cover the channel bed and bank surfaces to minimize soil compaction, rutting, and erosion. Rock must extend on either side of the ford up to the break in slope. The use of rock fords as watercourse crossings for all-weather access roads is prohibited.</p>
53.	<p>Cannabis cultivators shall ensure that culverts used at watercourse crossings are designed to direct flow and debris toward the inlet (e.g., use of wing-walls, pipe beveling, rock armoring, etc.) to prevent erosion of road fill, debris blocking the culvert, and watercourses from eroding a new channel.</p>
54.	<p>Cannabis cultivators shall regularly inspect and maintain the condition of access roads, access road drainage features, and watercourse crossings. At a minimum, cannabis cultivators shall perform inspections prior to the onset of fall and winter precipitation and following storm events that produce at least 0.5 in/day or 1.0 inch/7 days of precipitation. Cannabis cultivators are required to perform all of the following maintenance upon discovery:</p> <ul style="list-style-type: none"> • Remove any wood debris that may restrict flow in a culvert. • Remove sediment that impacts access road or drainage feature performance. Place any removed sediment in a location outside the riparian setbacks and stabilize the sediment. • Maintain records of access road and drainage feature maintenance and consider redesigning the access road to improve performance and reduce maintenance needs.
55.	<p>Cannabis cultivators shall compact access road crossing approaches and fill slopes during installation and shall stabilize them with rock or other appropriate surface protection to minimize surface erosion. When possible, cannabis cultivators shall ensure that access roads over culverts are equipped with a critical dip to ensure that, if the culvert becomes blocked or plugged, water can flow over the access road surface without washing away the fill prism. Access road crossings where specific conditions do not allow for a critical dip or in areas with potential for significant debris accumulation, shall include additional measures such as emergency overflow culverts or oversized culverts that are designed by a Qualified Professional.</p>

#	TERM
56.	Cannabis cultivators shall ensure that culverts used at watercourse crossings are: 1) installed parallel to the watercourse alignment to the extent possible, 2) of sufficient length to extend beyond stabilized fill/sidecast material, and 3) embedded or installed at the same level and gradient of the streambed in which they are being placed to prevent erosion.

Soil Disposal and Spoils Management

#	TERM
57.	Cannabis cultivators shall store soil, construction, and waste materials outside the riparian setback except as needed for immediate construction needs. Such materials shall not be stored in locations of known slope instability or where the storage of construction or waste material could reduce slope stability.
58.	Cannabis cultivators shall separate large organic material (e.g., roots, woody debris, etc.) from soil materials. Cannabis cultivators shall either place the large organic material in long-term, upland storage sites, or properly dispose of these materials offsite.
59.	Cannabis cultivators shall store erodible soil, soil amendments, and spoil piles to prevent sediment discharges in storm water. Storage practices may include use of tarps, upslope land contouring to divert surface flow around the material, or use of sediment control devices (e.g., silt fences, straw wattles, etc.).
60.	Cannabis cultivators shall contour and stabilize stored spoils to mimic natural slope contours and drainage patterns (as appropriate) to reduce the potential for fill saturation and slope failure.
61.	For soil disposal sites cannabis cultivators shall: <ul style="list-style-type: none"> • revegetate soil disposal sites with a mix of native plant species, • cover the seeded and planted areas with mulched straw at a rate of two tons per acre, and • apply non-synthetic netting or similar erosion control fabric (e.g., jute) on slopes greater than 2:1 if the site is erodible.
62.	Cannabis cultivators shall haul away and properly dispose of excess soil and other debris as needed to prevent discharge to waters of the state.

Riparian and Wetland Protection and Management

#	TERM
63.	Cannabis cultivators shall not disturb aquatic or riparian habitat, such as pools, spawning sites, large wood, or shading vegetation unless authorized under a CWA section 404 permit, CWA section 401 certification, Regional Water Board WDRs (when applicable), or a CDFW LSA Agreement.

#	TERM
64.	Cannabis cultivators shall maintain existing, naturally occurring, riparian vegetative cover (e.g., trees, shrubs, and grasses) in aquatic habitat areas to the maximum extent possible to maintain riparian areas for streambank stabilization, erosion control, stream shading and temperature control, sediment and chemical filtration, aquatic life support, wildlife support, and to minimize waste discharge.

Water Storage and Use

Water Supply, Diversion, and Storage

#	TERM
65.	Cannabis cultivators shall only install, maintain, and destroy wells in compliance with county, city, and local ordinances and with California Well Standards as stipulated in California Department of Water Resources Bulletins 74-90 and 74-81 ¹⁵ .
66.	All water diversions for cannabis cultivation from a surface stream, subterranean stream flowing through a known and definite channel (e.g., groundwater well diversions from subsurface stream flows), or other surface waterbody are subject to the surface water Numeric and Narrative Instream Flow Requirements. This includes lakes, ponds, and springs (unless the spring is deemed exempt by the Deputy Director). See Section 3, Numeric and Narrative Instream Flow Requirements of this Attachment A for more information.
67.	Groundwater diversions may be subject to additional requirements, such as a forbearance period, if the State Water Board determines those requirements are reasonably necessary to implement the purposes of this Policy.
68.	Cannabis cultivators are encouraged to use appropriate rainwater catchment systems to collect from impermeable surfaces (e.g., roof tops, etc.) during the wet season and store storm water in tanks, bladders, or off-stream engineered reservoirs to reduce the need for surface water or groundwater diversions.
69.	Cannabis cultivators shall not divert surface water unless it is diverted in accordance with an existing water right that specifies, as appropriate, the source, location of the point of diversion, purpose of use, place of use, and quantity and season of diversion. Cannabis cultivators shall maintain documentation of the water right at the cannabis cultivation site. Documentation of the water right shall be available for review and inspection by the Water Boards, CDFW, and any other authorized representatives of the Water Boards or CDFW.

¹⁵ California Well Standards are available at: <http://wdl.water.ca.gov/groundwater/wells/standards.cfm>

#	TERM
70.	Cannabis cultivators shall ensure that all water diversion facilities are designed, constructed, and maintained so they do not prevent, impede, or tend to prevent the passing of fish, as defined by Fish and Game Code section 45, upstream or downstream, as required by Fish and Game Code section 5901. This includes but is not limited to the supply of water at an appropriate depth, temperature, and velocity to facilitate upstream and downstream aquatic life movement and migration. Cannabis cultivators shall allow sufficient water at all times to flow past the point of diversion to keep in good condition any fish that may be planted or exist below the point of diversion as defined by Fish and Game Code section 5937. Cannabis cultivators shall not divert water in a manner contrary to or inconsistent with these Requirements.
71.	Cannabis cultivators issued a Cannabis SIUR by the State Water Board shall not divert surface water unless in compliance with all additional Cannabis SIUR conditions required by CDFW.
72.	Water diversion facilities shall include satisfactory means for bypassing water to satisfy downstream prior rights and any requirements of policies for water quality control, water quality control plans, water quality certifications, waste discharge requirements, or other local, state or federal instream flow requirements. Cannabis cultivators shall not divert in a manner that results in injury to holders of legal downstream senior rights. Cannabis cultivators may be required to curtail diversions should diversion result in injury to holders of legal downstream senior water rights or interfere with maintenance of downstream instream flow requirements.
73.	<p>Fuel powered (e.g., gas, diesel, etc.) diversion pumps shall be located in a stable and secure location outside of the riparian setbacks unless authorized under a 404/401 CWA permit, a CDFW LSA Agreement, coverage under the Cannabis Cultivation General Order water quality certification, or site-specific WDRs issued by the Regional Water Board. Use of non-fuel powered diversion pumps (solar, electric, gravity, etc.) is encouraged.</p> <p>In all cases, all pumps shall:</p> <ul style="list-style-type: none"> a) be properly maintained, b) have suitable containment to ensure any spills or leaks do not enter surface waterbodies or groundwater, and c) have sufficient overhead cover to prevent exposure of equipment to precipitation.

#	TERM
74.	No water shall be diverted unless the cannabis cultivator is operating the water diversion facility with a CDFW-approved water-intake screen (e.g., fish screen). The water intake screen shall be designed and maintained in accordance with screening criteria approved by CDFW. The screen shall prevent wildlife from entering the diversion intake and becoming entrapped. The cannabis cultivator shall contact the regional CDFW Office, LSA Program for information on screening criteria for diversion(s) ¹⁶ . The cannabis cultivator shall provide evidence that demonstrates that the water intake screen is in good condition whenever requested by the Water Boards or CDFW. Points of re-diversion from off-stream storage facilities that are open to the environment shall have a water intake screen, as required by CDFW.
75.	Cannabis cultivators shall inspect, maintain, and clean water intake screens and bypass appurtenances as directed by CDFW to ensure proper operation for the protection of fish and wildlife.
76.	Cannabis cultivators shall not obstruct, alter, dam, or divert any portion of a natural watercourse prior to obtaining all applicable permits and approvals. Permits may include a valid water right, 404/401 CWA permits, a CDFW LSA Agreement, coverage under the Cannabis Cultivation General Order water quality certification, or site-specific WDRs issued by the Regional Water Board.
77.	Cannabis cultivators shall plug, block, cap, disconnect, or remove the diversion intake or otherwise bypass flow or render the diversion intake incapable of diverting water for cannabis cultivation activities during the surface water forbearance period, unless the diversion intake is used for other beneficial uses, to ensure no water is diverted during that time.
78.	Cannabis cultivators shall not divert from a surface water or from a subterranean stream for cannabis cultivation at a rate more than a maximum instantaneous diversion rate of 10 gallons per minute, unless authorized under an existing appropriative water right.
79.	Onstream storage reservoirs are prohibited except in the following instances: a) The cannabis cultivator has an existing water right with irrigation as a designated use, issued prior to October 31, 2017, that authorizes the onstream storage reservoir. b) The cannabis cultivator obtains an appropriative water right permit with irrigation as a designated use prior to diverting water into an onstream storage reservoir for cannabis cultivation. Cannabis cultivators with a pending application or an unpermitted onstream storage reservoir shall not

¹⁶ CDFW's Lake and Streambed program information is available at: <https://www.wildlife.ca.gov/Conservation/LSA> .

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	<p>divert for cannabis cultivation until the cannabis cultivator has obtained a valid water right.</p> <p>c) Cannabis cultivators with an unpermitted onstream reservoir that existed prior to October 1, 2016 may file for a Cannabis SIUR¹⁷. As part of filing for a Cannabis SIUR, the registrant shall agree to do the following:</p> <ul style="list-style-type: none"> i. Request a determination from the Deputy Director (or designee) and CDFW to determine whether removal of the reservoir or installation of off-stream storage would cause more environmental damage than continuing to use the existing onstream reservoir for diversion and storage. ii. Accept any conditions imposed by the Deputy Director (or designee) and CDFW before or after issuance of the Cannabis SIUR as part of the determinations to ensure any modifications and ongoing operation of the onstream reservoir are protective of water quality and aquatic resources. If the Deputy Director (or designee) or CDFW determine the existing onstream reservoir does not meet this condition: <ul style="list-style-type: none"> (1) the reservoir and associated facilities shall be removed or otherwise modified such that the reservoir is incapable of storing water; and (2) the cannabis cultivator shall either install off-stream storage or obtain an alternative source of water or water right. iii. Operate or modify the onstream reservoir to: <ul style="list-style-type: none"> (1) bypass all inflow to the reservoir during the surface water diversion forbearance period (Section 3, Requirement 4). This requirement may be modified by the Deputy Director (or designee) or CDFW as part of the determinations and Cannabis SIUR; (2) comply with the diversion rate and diversion season bypass conditions (pursuant to Section 3, Requirements 5, 6, and 7). This requirement may be modified by the Deputy Director (or designee) or CDFW as part of the determinations and Cannabis SIUR; and (3) operate consistent with the other Requirements of this Policy. This requirement may be modified by the Deputy Director (or designee) as part of the determinations and Cannabis SIUR. iv. Within six months of the determinations, the cannabis cultivator shall submit a draft compliance plan for review and approval by the Deputy Director (or designee). The compliance plan shall clearly identify the scope of work and schedule for completion of modifications necessary to operate the onstream reservoir in compliance with the determinations and Cannabis SIUR. The schedule for completion must comply with the timeline established by

¹⁷ Cannabis cultivators can apply for a Cannabis SIUR through the [Water Boards online Cannabis Cultivation Program Application Portal](https://public2.waterboards.ca.gov/cgo_) available at: https://public2.waterboards.ca.gov/cgo_

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	<p>the Deputy Director (or designee) and shall not exceed the renewal date of the Cannabis SIUR Certificate¹⁸. The Deputy Director (or designee) may require modifications prior to approving the draft compliance plan.</p> <ul style="list-style-type: none"> v. Withdrawal of water from the onstream reservoir for cannabis cultivation activities is only allowed during the surface water diversion forbearance period. d) Onstream reservoirs with an existing valid water right registration for onstream storage that does not identify commercial irrigation as a purpose of use (i.e., Livestock Stockpond Use Registrations, Small Domestic Use Registrations) may file for a Cannabis SIUR , thereby requesting Deputy Director (or designee) and CDFW to make determinations and condition the Cannabis SIUR after issuance with appropriate conditions as outlined in (c)(i), (c)(ii), (c)(iii), (c)(iv), and (c)(v) above, with the exception of (c)(ii)(1) which does not apply.
80.	<p>The State Water Board may impose conditions for each individual SIUR for an onstream reservoir for cannabis cultivation to:</p> <ul style="list-style-type: none"> a) Ensure that individual and cumulative effects of water diversion and discharge associated with cultivation do not affect the instream flows needed for fish spawning, migration, and rearing, and the flows needed to maintain natural flow variability; b) Ensure that cultivation does not negatively impact springs, riparian habitat, wetlands, or aquatic habitat; and c) Otherwise protect fish, wildlife, fish and wildlife habitat, and water quality. <p>Each SIUR filing for an onstream reservoir for cannabis cultivation shall include self-certification that the registrant has agreed to comply with all lawful conditions required by the State Water Board pursuant to this term. The SIUR Certificate shall include a copy of any conditions required by the State Water Board pursuant to this term.</p>
81.	<p>Cannabis cultivators are encouraged to install separate storage systems for water diverted for cannabis irrigation and water diverted for any other beneficial uses¹⁹, or otherwise shall install separate measuring devices to quantify diversion to and from each storage facility, including the quantity of water diverted and the quantity, place, and purpose of use (e.g., cannabis irrigation, other crop irrigation, domestic, etc.) for the stored water.</p>
82.	<p>The cannabis cultivator shall install and maintain a measuring device(s) for surface water or subterranean stream diversions. The measuring device shall be, at a</p>

¹⁸ SIURs are subject to renewal every five years.

¹⁹ Other beneficial uses of water include: domestic, irrigation, power, municipal, mining, industrial, fish and wildlife preservation and enhancement, aquaculture, recreational, stockwatering, water quality, frost protection, and heat control. (California Code of Regulations, Title 23 sections 659-672).

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	<p>minimum equivalent to the requirements for direct diversions greater than 10 acre-feet per year in California Code of Regulations, Title 23, Division 3, Chapter 2.7 and Chapter 2.8²⁰. The measuring device(s) shall be located as close to the point of diversion as reasonable. Cannabis cultivators shall maintain daily diversion records for water diverted for cannabis cultivation. Cannabis cultivators shall maintain separate records that document the amount of water used for cannabis cultivation separated out from the amount of water used for other irrigation purposes and other beneficial uses of water (e.g., domestic, fire protection, etc.). Cannabis cultivators shall maintain daily diversion records at the cultivation site and shall make the records available for review or by request by the Water Boards, CDFW, or any other authorized representatives of the Water Boards or CDFW. Daily diversion records shall be retained for a minimum of five years. Compliance with this term is required for any surface water diversion for cannabis cultivation, even those under 10 acre-feet per year.</p>
83.	<p>Cannabis cultivators with onstream reservoirs shall install and maintain a measuring device capable of meeting the requirements below to monitor and record the rate of diversion, the rate of collection to storage, the rate of withdrawal or release from storage, and the total volume of water collected in the onstream reservoir.</p> <ul style="list-style-type: none"> a) The measurement device (e.g., water level sensor and area-capacity curve) shall be certified to measure the total volume of water diverted or stored accurate to within ± 10 percent by volume based on periodic testing of the installed device. b) The measurement device shall be capable of recording the date, time, and volume of water diverted at an hourly or more frequent basis, year-round. c) The measurement device shall be installed and calibrated by a Qualified Professional. This includes the development of any area-capacity curve used to convert water elevation to volume. Cannabis cultivators shall submit a description of the type of measurement device, evidence of proper installation and operation of the device, and the area-capacity curve to the Deputy Director (or designee) for review and approval within two years of the date the Cannabis SIUR is issued. d) To assess continued accuracy of depth readings recorded by the measurement device, a staff gage shall also be installed in the same pond or reservoir as the measurement device and manual depth readings from the staff gage and the date and time of the depth readings shall be recorded monthly, at a minimum. The area-capacity curve shall be reassessed if requested by the Deputy Director (or designee). e) Cannabis cultivators shall maintain hourly depth and volume records from the measurement device and area-capacity curves at the cultivation site and

²⁰ [Additional information on measuring devices](https://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/water_use.shtml#measurement) may be found at: https://www.waterboards.ca.gov/waterrights/water_issues/programs/diversion_use/water_use.shtml#measurement

#	TERM
	<p>shall make the records available for review upon request by staff from the Water Boards or CDFW.</p> <p>Depth and volume records and area-capacity curves shall be retained for a minimum of five years.</p>
84.	<p>The State Water Board intends to develop and implement a basin-wide program for real-time electronic monitoring and reporting of diversions, withdrawals, releases and streamflow in a standardized format if and when resources become available. Such real-time reporting will be required upon a showing by the State Water Board that the program and the infrastructure are in place to accept real-time electronic reports. Implementation of the reporting requirements shall not necessitate amendment to this requirement.</p>
85.	<p>Cannabis cultivators shall not use reservoirs and ponds to store water for cannabis cultivation unless they are sited and designed or approved by a Qualified Professional in compliance with Division of Safety of Dams (DSOD), county, and/or city requirements, as applicable. If the DSOD, county, and/or city do not have established requirements, they shall be designed consistent with the Natural Resource Conservation Service National Engineering Manual. Reservoirs shall be designed with an adequate overflow outlet that is protected and promotes the dispersal and infiltration of flow and prevents channelization.</p> <p>All off-stream storage reservoirs and ponds shall be designed, managed, and maintained to accommodate average annual winter period precipitation and storm water inputs to reduce the potential for overflow.</p> <p>Cannabis cultivators shall plant native vegetation along the perimeter of the reservoir in locations where it does not impact the structural integrity of the reservoir berm or spillway. The cannabis cultivator shall control vegetation around the reservoir berm and spillway to allow for visual inspection of berm and spillway condition and control burrowing animals as necessary.</p>
86.	<p>Cannabis cultivators shall implement an invasive species management plan prepared by a Qualified Biologist for any existing or proposed water storage facilities that are open to the environment. The plan shall include, at a minimum, an annual survey for bullfrogs and other invasive aquatic species. If bullfrogs or other invasive aquatic species are identified, eradication measures shall be implemented under the direction of a Qualified Biologist, if appropriate, after consultation with CDFW (pursuant to Fish and Game Code section 6400). Eradication methods can be direct or indirect. Direct methods may include hand-held dip net, hook and line, lights, spears, gigs, or fish tackle under a fishing license (pursuant to Fish and Game Code section 6855). An indirect method may involve seasonally timed complete dewatering and a drying period of the off-stream storage facility under a Permit to Destroy Harmful Species (pursuant to Fish and Game Code section 5501) issued by CDFW.</p>
87.	<p>Water storage bladders are not encouraged for long-term use. If bladders are used, the cannabis cultivator shall ensure that the bladder is designed and properly installed to store water and that the bladder is sited to minimize the</p>

#	TERM
	<p>potential for water to flow into a watercourse in the event of a catastrophic failure. If a storage bladder has been previously used, the cannabis cultivator shall carefully inspect the bladder to confirm its integrity and confirm the absence of any interior residual chemicals prior to resuming use. Cannabis cultivators shall periodically inspect water storage bladders and containment features to ensure integrity. Water storage bladders shall be properly disposed of or recycled and not resold when assurance of structural integrity is no longer guaranteed.</p>
88.	<p>Cannabis cultivators shall not use water storage bladders unless the bladder is safely contained within a secondary containment system with sufficient capacity to capture 110 percent of a bladder’s maximum possible contents in the event of bladder failure (i.e., 110 percent of bladder’s capacity). Secondary containment systems shall be of sufficient strength and stability to withstand the forces of released contents in the event of catastrophic bladder failure. In addition, secondary containment systems that are open to the environment shall be designed and maintained with sufficient capacity to accommodate precipitation and storm water inputs from a 25-year, 24-hour storm event.</p>
89.	<p>Cannabis cultivators shall not cause or allow any overflow from off-stream water storage facilities that are closed to the environment (e.g., tanks and bladders) if the off-stream facilities are served by a diversion from surface water or groundwater. Cannabis cultivators shall on a monthly basis, at a minimum, inspect for and repair all leaks of the diversion and storage system. Written records describing the date, time, and nature of such inspections and repairs shall be kept on-site for a period of at least two years. Such written records shall be made available for review by Water Boards or CDFW, and any other authorized representatives of the Water Boards or CDFW.</p>
90.	<p>Water storage tanks, bladders, and other off-stream water storage facilities that are closed to the environment shall not be located in a riparian setback or next to equipment that generates heat. Cannabis cultivators shall place water storage tanks, bladders, and other off-stream water storage facilities that are closed to the environment in areas that allow for ease of installation, access, maintenance, and minimize road development.</p>
91.	<p>Cannabis cultivators shall install storage tanks according to manufacturer’s specifications and shall place tanks on properly compacted soil that is free of rocks and sharp objects and capable of bearing the weight of the tank and its maximum contents with minimal settlement. Cannabis cultivators shall maintain a written or electronic copy of the manufacturer’s specifications for each storage tank installed and used for cannabis cultivation activities, if available from the manufacturer in hardcopy or on the internet. Tanks shall not be located in areas of slope instability. Cannabis cultivators shall install water storage tanks capable of containing more than 8,000 gallons only on a reinforced concrete pad providing adequate support and enough space to attach a tank restraint system (anchor using the molded-in tie down lugs with moderate tension, being careful not to over-</p>

#	TERM
	tighten) per the recommendations of a Qualified Professional. Nothing in this requirement supersedes other applicable state, county, or local requirements for the installation of water storage tanks, whichever is more stringent shall apply.
92.	To prevent rupture or overflow and runoff, cannabis cultivators shall only use water storage tanks and bladders equipped with a float valve, or equivalent device, to shut off diversion when storage systems are full. Cannabis cultivators shall install any other measures necessary to prevent overflow of storage systems to prevent runoff and the diversion of more water than can be used and/or stored.
93.	Cannabis cultivators shall ensure that all vents and other openings on water storage tanks are designed to prevent the entry and/or entrapment of wildlife.
94.	<p>Cannabis cultivators shall retain, for a minimum of five years, appropriate documentation for any hauled water²¹ used for cannabis cultivation. Documentation for hauled water shall include, for each delivery, the following:</p> <ul style="list-style-type: none"> a) A receipt that shows the date of delivery and the name, address, license plate number, and license plate issuing state for the water hauler, b) A copy of the Water Hauler’s License, if applicable (California Health and Safety Code section 111120), c) A copy of proof of the Water Hauler’s water right, groundwater well, or other authorization to take water, and the location of the water source, and d) The quantity of water delivered or picked up from a water source, in gallons. <p>Documentation shall be made available, upon request, to Water Boards or CDFW staff and any other authorized representatives of the Water Boards or CDFW.</p>

Water Conservation and Use

#	TERM
95.	Cannabis cultivators shall on a monthly basis, at a minimum, inspect their entire water delivery system for leaks and immediately repair any leaky faucets, pipes, connectors, or other leaks.
96.	Cannabis cultivators shall use weed-free mulch in cultivation areas that do not have ground cover to conserve soil moisture and minimize evaporative loss.
97.	Cannabis cultivators shall implement water conserving irrigation methods (e.g., drip or trickle irrigation, micro-spray, or hydroponics).

²¹ Water hauler means any person who hauls water in bulk by any means of transportation.

#	TERM
98.	Cannabis cultivators shall maintain daily records of all water used for irrigation of cannabis. Daily records may be calculated by the use of a measuring device or, if known, by calculating the irrigation system rates and duration of time watered (e.g., irrigating for one hour twice per day using 50 half-gallon irrigation emitters equates to 50 gallons per day (1 hour x 2 times per day x 50 irrigation emitters x 0.5 gallons per irrigation emitter per hour) of water used for irrigation). Cannabis cultivators shall retain, for a minimum of five years, irrigation records at the cannabis cultivation site and shall make all irrigation records available for review by the Water Boards, CDFW, and any other authorized representatives of the Water Boards or CDFW.

Irrigation Runoff

#	TERM
99.	Cannabis cultivators shall on a weekly basis, at a minimum, during period of use inspect for leaks in mainlines ²² , laterals ²³ , in irrigation connections, sprinkler heads, irrigation emitters, or at the ends of drip tape and feeder lines and immediately repair any leaks found upon detection.
100.	The irrigation system shall be designed to include redundancy (e.g., safety valves) in the event that leaks occur, so that waste of water and runoff is prevented and minimized.
101.	Cannabis cultivators shall regularly replace worn, outdated, or inefficient irrigation system components and equipment to ensure a properly functioning, leak-free, and efficient irrigation system at all times.
102.	Cannabis cultivators shall minimize irrigation deep percolation ²⁴ by applying irrigation water at agronomic rates.

²² Mainlines are pipes that go from the water source to the control valves.

²³ Laterals are the pipes between the control valves and the sprinkler heads or irrigation emitters.

²⁴ Deep percolation occurs when excess irrigation water is applied and percolates below the plant root zone.

Fertilizers, Pesticides, and Petroleum Products

#	TERM
103.	Cannabis cultivators shall not mix, prepare, over apply, or dispose of agricultural chemicals/products (e.g., fertilizers, pesticides ²⁵ , and other chemicals as defined in the applicable water quality control plan) in any location where they could enter the riparian setback or waters of the state. The use of agricultural chemicals inconsistently with product labeling, storage instructions, or DPR requirements for pesticide applications ²⁶ is prohibited. Disposal of unused product and containers shall be consistent with labels.
104.	Cannabis cultivators shall keep and use absorbent materials designated for spill containment and spill cleanup equipment on-site for use in an accidental spill of fertilizers, petroleum products, hazardous materials, and other substances which may degrade waters of the state. The cannabis cultivator shall immediately notify the California Office of Emergency Services at 1-800-852-7550 and immediately initiate cleanup activities for all spills that could enter a waterbody or degrade groundwater.
105.	Cannabis cultivators shall establish and use a separate storage area for pesticides, and fertilizers, and another storage area for petroleum or other liquid chemicals (including diesel, gasoline, oils, etc.). All such storage areas shall comply with the riparian setback Requirements, be in a secured location in compliance with label instructions, outside of areas of known slope instability, and be protected from accidental ignition, weather, and wildlife. All storage areas shall have appropriate secondary containment structures, as necessary, to protect water quality and prevent spillage, mixing, discharge, or seepage. Storage tanks and containers must be of suitable material and construction to be compatible with the substances stored and conditions of storage, such as pressure and temperature.

²⁵ Pesticide is defined as follows:

- Per California Code of Regulations Title 3. Division 6. Section 6000:

(a) Any substance or mixture of substances that is a pesticide as defined in the Food and Agricultural Code and includes mixtures and dilutions of pesticides;

(b) As the term is used in Section 12995 of the California Food and Agricultural Code, includes any substance or product that the user intends to be used for the pesticidal purposes specified in Sections 12753 and 12758 of the Food and Agricultural Code.

- Per California Food and Agricultural Code section 12753(b), the term "Pesticide" includes any of the following: Any substance, or mixture of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling, or mitigating any pest, as defined in Section 12754.5, which may infest or be detrimental to vegetation, man, animals, or households, or be present in any agricultural or nonagricultural environment whatsoever.

- In laymen's terms: "pesticide" includes: rodenticides, herbicides, insecticides, fungicides, and disinfectants.

²⁶ More information on DPR requirements is available at:

http://www.cdpr.ca.gov/docs/legbills/laws_regulations.htm,

<http://www.cdpr.ca.gov/docs/county/cacltrs/penfltrs/penf2017/2017atch/attach0301.pdf>, and

<http://www.cdpr.ca.gov/docs/cannabis/index.htm>

#	TERM
106.	Throughout the wet season, cannabis cultivators shall ensure that any temporary storage areas have a permanent cover and side-wind protection or be covered during non-working days and prior to and during rain events.
107.	Cannabis cultivators shall only use hazardous materials ²⁷ in a manner consistent with the product's label.
108.	Cannabis cultivators shall only keep hazardous materials in their original containers with labels intact, and shall store hazardous materials to prevent exposure to sunlight, excessive heat, and precipitation. Cannabis cultivators shall provide secondary containment for hazardous materials to prevent possible exposure to the environment. Disposal of unused hazardous materials and containers shall be consistent with the label.
109.	Cannabis cultivators shall only mix, prepare, apply, or load hazardous materials outside of the riparian setbacks.
110.	Cannabis cultivators shall not apply agricultural chemicals within 48 hours of any weather pattern that is forecast to have a 50 percent or greater chance of precipitation of 0.25 inches or greater per 24 hours. In the Lake Tahoe Hydrologic Unit, cannabis cultivators shall not apply agricultural chemicals within 48 hours of any weather pattern that is forecast to have a 30 percent or greater chance of precipitation greater than 0.1 inch per 24 hours. This requirement may be updated based on amendments to the Lahontan Regional Water Board construction storm water general order.

Fertilizers and Soils

#	TERM
111.	To minimize infiltration and water quality degradation, cannabis cultivators shall irrigate and apply fertilizer consistent with the crop need (i.e., agronomic rate).
112.	When used, cannabis cultivators shall apply nitrogen to cannabis cultivation areas consistent with crop need (i.e., agronomic rate). Cannabis cultivators shall not apply nitrogen at a rate that may result in a discharge to surface water or groundwater that causes or contributes to exceedance of water quality objectives, and no greater than 319 pounds/acre/year unless plant tissue analysis performed by a qualified individual demonstrates the need for additional nitrogen application. The analysis shall be performed by an agricultural laboratory certified by the State Water Board's Environmental Laboratory Accreditation Program.
113.	Cannabis cultivators shall ensure that potting soil or soil amendments, when not in use, are placed and stored with covers, when needed, to protect from rainfall and erosion, to prevent discharge to waters of the state, and to minimize leaching of waste constituents into groundwater.

²⁷ A hazardous material is any item or agent (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.

Pesticides and Herbicides

#	TERM
114.	Cannabis cultivators shall not apply restricted materials, including restricted pesticides, or allow restricted materials to be stored at the cannabis cultivation site.
115.	Cannabis cultivators shall implement integrated pest management strategies where possible to reduce the need and use of pesticides and the potential for discharges to waters of the state ²⁸ .

Petroleum Products and Other Chemicals

#	TERM
116.	Cannabis cultivators shall only refuel vehicles or equipment outside of riparian setbacks. Cannabis cultivators shall inspect all equipment using oil, hydraulic fluid, or petroleum products for leaks prior to use and shall monitor equipment for leakage. Stationary equipment (e.g., motors, pumps, generators, etc.) and vehicles not in use shall be located outside of riparian setbacks. Spill and containment equipment appropriate for the conditions at and near the site (e.g., oil spill booms if surface water could be impacted by a spill, sorbent pads, etc.) shall be stored onsite at all locations where equipment is used or staged.
117.	Cannabis cultivators shall store petroleum, petroleum products, and similar fluids in a manner that provides chemical compatibility, provides secondary containment, and protection from accidental ignition, the sun, wind, and rain.
118.	Use of an underground storage tank(s) for the storage of petroleum products is allowed if compliant with all applicable federal, state, and local laws; regulations; and permitting requirements.

Cultivation-Related Waste

#	TERM
119.	Cannabis cultivators shall contain and regularly remove all debris and trash associated with cannabis cultivation activities from the cannabis cultivation site. Cannabis cultivators shall only dispose of debris and trash at an authorized landfill or other disposal site in compliance with state and local laws, ordinances, and regulations. Cannabis cultivators shall not allow litter, plastic, or similar debris to enter the riparian setback or waters of the state. Cannabis plant material may be disposed of onsite in compliance with any applicable CDFA license conditions.

²⁸ <https://www.epa.gov/safepestcontrol/integrated-pest-management-ipm-principles>

#	TERM
120.	<p>Cannabis cultivators shall only dispose or reuse spent growth medium (e.g., soil and other organic media) in a manner that prevents discharge of soil and residual nutrients and chemicals to the riparian setback or waters of the state. Spent growth medium shall be covered with plastic sheeting or stored in water tight dumpsters prior to proper disposal or reuse. Spent growth medium should be disposed of at an authorized landfill or other disposal site in compliance with state and local laws, ordinances, and regulations. Proper reuse of spent growth medium may include incorporation into garden beds or spreading on a stable surface and revegetating the surface with native plants. Cannabis cultivators shall use erosion control techniques, as needed, for any reused or stored spent growth medium to prevent polluted runoff.</p>
121.	<p>Wastewater tanks or storage containers must be rigid, enclosed to the environment, and appropriately designed to hold wastewater. They shall not be located within the riparian setback. Cannabis cultivators shall place wastewater storage tanks in areas that allow for ease of installation, access, maintenance, and minimize road development.</p> <p>Cannabis cultivators shall install tanks according to manufacturer’s specifications and shall place tanks on properly compacted soil or other surface (e.g., concrete) that is free of rocks and sharp objects and capable of bearing the weight of the tank and its maximum contents with minimal settlement. Cannabis cultivators shall maintain a written or electronic copy of the manufacturer’s specifications for each tank installed and used for cannabis cultivation activities, if available from the manufacturer in hardcopy or on the internet.</p> <p>Tanks shall not be located in areas of slope instability or next to equipment that generates heat. Cannabis cultivators shall install wastewater storage tanks capable of containing more than 8,000 gallons only on a reinforced concrete pad providing adequate support and enough space to attach a tank restraint system (anchor using the molded-in tie down lugs with moderate tension, being careful not to over-tighten) per the recommendations of a Qualified Professional.</p> <p>To prevent rupture or overflow and runoff, cannabis cultivators shall only use wastewater storage tanks equipped with a float valve, or equivalent device, to shut off inflow when storage systems are full. Cannabis cultivators shall install any other measures necessary to prevent overflow of storage systems and prevent spills or leaks. Cannabis cultivators shall regularly inspect for and repair all leaks of the storage system.</p> <p>Nothing in this requirement supersedes other applicable state, county, or local requirements for the installation of wastewater tanks or storage containers, whichever is more stringent shall apply.</p>

#	TERM
122.	<p>Cannabis cultivators shall retain, for a minimum of five years, appropriate documentation for any industrial wastewater collected to a storage tank for disposal at a permitted wastewater facility that accepts cannabis cultivation wastewater. Documentation for hauled industrial wastewater shall include, for each delivery, the following:</p> <ul style="list-style-type: none"> • A receipt that shows the date of pickup and the name, address, license plate number, and license plate issuing state for the industrial wastewater hauler; • A copy of the wastewater hauler's permit; and • The quantity of industrial wastewater picked up, in gallons. <p>Documentation shall be made available, upon request, to Water Boards or CDFW staff and any other authorized representatives of the Water Boards or CDFW.</p>

Refuse and Domestic Waste

#	TERM
123.	<p>Cannabis cultivators shall ensure that debris, soil, silt, bark, slash, sawdust, rubbish, creosote-treated wood, raw cement and concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any other substances which could be hazardous to any life stage of fish and wildlife or their habitat (including food sources) does not contaminate soil or enter the riparian setback or waters of the state.</p>
124.	<p>Cannabis cultivators shall not dispose of domestic wastewater unless it meets applicable local agency and/or Regional Water Board requirements. Cannabis cultivators shall ensure that human or animal waste is disposed of properly. Cannabis cultivators shall ensure onsite wastewater treatment systems (e.g., septic system) are permitted by the local agency or applicable Regional Water Board.</p>
125.	<p>If used, chemical toilets or holding tanks shall be maintained in a manner appropriate for the frequency and conditions of usage, sited in stable locations, and comply with the riparian setback Requirements.</p>

Winterization

#	TERM
126.	<p>Cannabis cultivators shall implement all applicable Erosion Control and Soil Disposal and Spoils Management Requirements in addition to the Winterization Requirements below by the onset of the winter period.</p>
127.	<p>Cannabis cultivators shall block or otherwise close any temporary access roads to all motorized vehicles no later than the onset of the winter period each year.</p>

#	TERM								
128.	<p>Cannabis cultivators shall not operate heavy equipment of any kind at the cannabis cultivation site during the winter period, unless authorized (1) in a site management plan as described below, or (2) for emergency repairs contained in an enforcement order issued by the State Water Board, Regional Water Board, or other agency having jurisdiction. Use of heavy equipment (e.g. agricultural equipment) for routine cannabis cultivation soil preparation or planting may be authorized in a site management plan approved by the applicable Regional Water Board Executive Officer or designee if both of the following conditions are met:</p> <ul style="list-style-type: none"> i. all soil preparation and planting activities occur outside of the riparian setbacks; and ii. all soil preparation and planting activities are located on an average slope equal to or less than five percent (5%) (e.g., valley floor). 								
129.	<p>Cannabis cultivators shall apply linear sediment controls (e.g., silt fences, wattles, etc.) along the toe of the slope, face of the slope, and at the grade breaks of exposed slopes to comply with sheet flow length²⁹ at the frequency specified below or as authorized in a site management plan approved by the applicable Regional Water Board Executive Officer or designee.</p> <table border="1" data-bbox="594 1014 1265 1346"> <thead> <tr> <th data-bbox="594 1014 894 1136">Slope (percent)</th> <th data-bbox="894 1014 1265 1136">Sheet Flow Length Not to Exceed (feet)</th> </tr> </thead> <tbody> <tr> <td data-bbox="594 1136 894 1205">0 – 25</td> <td data-bbox="894 1136 1265 1205">20</td> </tr> <tr> <td data-bbox="594 1205 894 1274">25 – 50</td> <td data-bbox="894 1205 1265 1274">15</td> </tr> <tr> <td data-bbox="594 1274 894 1346">>50</td> <td data-bbox="894 1274 1265 1346">10</td> </tr> </tbody> </table>	Slope (percent)	Sheet Flow Length Not to Exceed (feet)	0 – 25	20	25 – 50	15	>50	10
Slope (percent)	Sheet Flow Length Not to Exceed (feet)								
0 – 25	20								
25 – 50	15								
>50	10								
130.	<p>Cannabis cultivators shall maintain all culverts, drop inlets, trash racks and similar devices to ensure they are not blocked by debris or sediment. The outflow of culverts shall be inspected to ensure erosion is not undermining the culvert. Culverts shall be inspected prior to the onset of fall and winter precipitation and following precipitation events that produce at least 0.5 in/day or 1.0 inch/7 days of precipitation to determine if maintenance or cleaning is required.</p>								
131.	<p>Cannabis cultivators shall stabilize all disturbed areas and construction entrances and exits to control erosion and sediment discharges from land disturbance.</p>								

²⁹ Sheet flow length is the length that shallow, low velocity flow travels across a site.

#	TERM
132.	Cannabis cultivators shall cover and berm all loose stockpiled construction materials (e.g., soil, spoils, aggregate, etc.) that are not actively (scheduled for use within 48 hours) being used as needed to prevent erosion by storm water. The cannabis cultivator shall have adequate cover and berm materials available onsite if the weather forecast indicates a probability of precipitation.
133.	Cannabis cultivators shall apply erosion repair and control measures to the bare ground (e.g., cultivation area, access paths, etc.) to prevent discharge of sediment to waters of the state.
134.	As part of the winterization plan approval process, the Regional Water Board may require cannabis cultivators to implement additional site-specific erosion and sediment control requirements if the implementation of the Requirements in this section do not adequately protect water quality.

SECTION 3 – NUMERIC AND NARRATIVE INSTREAM FLOW REQUIREMENTS (INCLUDING GAGING)

This section outlines the Numeric and Narrative Instream Flow Requirements established in this Policy.

Narrative Instream Flow Requirements apply to all diversions of surface water and groundwater for cannabis cultivation throughout California. Numeric Instream Flow Requirements are developed at compliance gages throughout California.

Narrative Instream Flow Requirements

Instream Flow Requirements for Surface Water Diversions

1. **Applicability:** Surface water instream flow Requirements apply to anyone diverting water for cannabis cultivation from a waterbody. A waterbody is defined as any significant accumulation of water, such as: lakes, ponds, rivers, streams, creeks, springs³⁰, artesian wells, wetlands, and canals. Surface water instream flow Requirements also apply to water diverted from a subterranean stream flowing through a known and definite channel.
2. **Retail Water Suppliers**³¹: The instream flow Requirements and forbearance period listed in this section shall not apply to retail water suppliers, as defined in Section 13575 of the Water Code³², whose primary beneficial use is municipal or domestic, unless any of the following circumstances are present:
 - a. the retail water supplier has 10 or fewer customers and delivers water that is used for cannabis cultivation;
 - b. the retail water supplier delivers 10 percent or more of the diverted water to one or more cannabis cultivator(s) or cannabis cultivation site(s), as established by an assessor’s parcel number;
 - c. 25 percent or more of the water delivered by the retail water supplier is used for cannabis cultivation; or
 - d. a cannabis cultivator and the retail water supplier are affiliates, as defined in California Code of Regulations, title 23, section 2814.20.
3. **Exempt Springs:** Cannabis cultivators claiming, pursuant to Business and Professions Code section 26060.1(a)(2)(A)(iv) or section 26060.1(a)(2)(B)(iii), that a spring or artesian well does not flow off their property by surface or subterranean (subsurface) means in the absence of diversion, may request an exemption from the Policy’s Narrative Instream Flow Requirements 4 (Surface

³⁰ A spring is an area where there is concentrated discharge of groundwater that flows at the ground surface. A spring may flow any part of the year. For the purpose of this Policy, a spring does not have a defined bed and banks. Surface water instream flow Requirements apply to both natural springs and springs that are modified to improve production such as, installing piping and spring boxes/wells.

³¹ Business and Professions Code section 26060.1(a)(1)(B).

³² Under Water Code section 13575(b)(5), “Retail water supplier” means any local entity, including a public agency, city, county, or private water company that provides retail water service.

Water Dry Season Forbearance Period) and 5 (Surface Water Wet Season Diversion Period). All requests for fully contained spring exemptions must be submitted online through the Water Boards_Cannabis Cultivation Program Application Portal³³. Cannabis cultivators requesting an exemption must obtain a Cannabis Small Irrigation Use Registration (Cannabis SIUR), and provide substantial evidence to support the fully contained spring exemption request. The substantial evidence shall demonstrate that, in the absence of diversions, the spring or artesian well does not have surface or subsurface hydrologic connectivity to a surface water at any time of year during all water year types³⁴. The substantial evidence must be documented by a Qualified Professional. For purposes of this requirement, Qualified Professionals include California-registered Professional Geologists or other classifications of professions approved by the Deputy Director for Water Rights (Deputy Director). A list of Qualified Professionals that may document the substantial evidence required per this requirement will be maintained on the Water Rights section of the State Water Board's Cannabis Cultivation Fully Contained Springs webpage³⁵. The Deputy Director may require additional information from the cannabis cultivator to support the request. If, after reviewing the submitted evidence and analysis, the Deputy Director concurs that the cannabis cultivator has made the required showing, the cannabis cultivator may be exempted from the Policy's Narrative Instream Flow Requirements 4 and 5 and may request to revoke the associated Cannabis SIUR. Springs or artesian wells that are deemed exempt shall comply with the Policy's 50 percent visual bypass requirement (Narrative Instream Flow Requirement 6) to support aquatic and riparian habitat. In addition, springs or artesian wells that are deemed exempt shall be subject to the Requirements for Groundwater Diversions (Narrative Instream Flow Requirement 8) to address the potential cumulative impacts of groundwater diversions, to which diversions from the spring or artesian well may contribute. Notwithstanding such exemptions, all other applicable Requirements of this Policy remain in force.

4. **Surface Water Dry Season Forbearance Period:** Cannabis cultivators shall not divert surface water for cannabis cultivation activities at any time from April 1 through October 31 of each calendar year, unless the water diverted is delivered from storage in compliance with Narrative Flow Requirement 4.
 - a. From April 1, 2018 through October 31, 2018, cannabis cultivators diverting under a valid water right or claim of right and without authorized storage are not subject to a dry season forbearance period if the following Requirements are met:
 - i. Cannabis cultivators subject to Requirement 4.a. may only divert during this period in a manner consistent with their permit/license or claim of right. All other applicable requirements of the Policy shall remain in force.

³³ [Water Boards Cannabis Cultivation Program Application Portal: https://public2.waterboards.ca.gov/cgo](https://public2.waterboards.ca.gov/cgo)

³⁴ Including during any precipitation and runoff events.

³⁵ [State Water Board's Cannabis Cultivation Fully Contained Springs webpage: https://www.waterboards.ca.gov/water_issues/programs/cannabis/fully_contained_springs.html](https://www.waterboards.ca.gov/water_issues/programs/cannabis/fully_contained_springs.html)

- ii. Prior to diverting water for cannabis cultivation during April 1, 2018 through October 31, 2018 cannabis cultivators subject to Requirement 4.a shall file for a Cannabis SIUR or submit an application for an appropriative water right permit to obtain storage sufficient to support their cannabis cultivation during future forbearance periods.
- iii. As soon as possible after storage has been authorized, following the conclusion of the winter period, cannabis cultivators subject to Requirement 4.a shall begin installing and diverting to off-stream storage to prepare for a potential curtailment during the dry season of 2018 (triggered by the Aquatic Base Flow Numeric Instream Flow Requirement).
- iv. Requirement 4 shall apply with full force to cannabis cultivators described in Requirement 4.a who fail to comply with Requirement 4.a.ii and/or 4.a.iii.

5. **Surface Water Wet Season Diversion Period:** The authorized surface water diversion period is November 1 through March 31. During this diversion period, cannabis cultivators may only divert surface water for cannabis cultivation when water is available for diversion under the cannabis cultivator's priority of right and the applicable Numeric Flow Requirement (Section 4) is met at the assigned compliance gage. This includes direct diversion and diversion to storage.

From November 1 through December 14 of each year, the surface water diversion period shall not begin until after seven consecutive days in which the surface waterbody's real-time daily average flow is greater than the Numeric Flow Requirement (applicable minimum monthly instream flow Requirement in Section 4). The first day of the seven consecutive days must occur on or after October 25. After the seventh consecutive day with average flow greater than the Numeric Flow Requirement, surface water diversions may occur on any subsequent days in which the real-time daily average flow is greater than the Numeric Instream Flow Requirement (applicable minimum monthly instream flow Requirement in Section 4)³⁶.

Numeric Instream Flow Requirements (minimum instream flows) are established throughout the State and are calculated for the majority of USGS National Hydrography_Dataset Plus Version 2 stream reaches where the USGS flow modeling data are available. Cannabis cultivators that divert water from a waterbody are required to ensure that the prior day's average flow, as published on the State Water Board's online mapping tool (see Section 4, Watershed

³⁶ For example, if the daily average flows on each day from October 27 through November 2 of a given year are greater than the Numeric Instream Flow Requirement for November (applicable November monthly minimum flow Requirement), diversion may begin on November 3 if the daily average flow on November 3 is also greater than the November Numeric Instream Flow Requirement. From December 15 through March 31 of each surface water diversion period, surface water diversions may occur on any day in which the surface waterbody's real-time daily average flow is greater than the Numeric Instream Flow Requirement (applicable minimum monthly instream flow Requirement).

Compliance Gage Assignments for more information), exceeds the minimum monthly instream flow Requirement at the cannabis cultivator's assigned compliance gage. Cannabis cultivators shall verify and document compliance with the applicable minimum instream flows on a daily basis for each day of surface water diversion.

6. **Surface Water Flow Bypass:** In addition to Narrative Flow Requirement 5, cannabis cultivators shall bypass a minimum of 50 percent of the surface water flow past their point of diversion at all times, as estimated based on visually observing surface water flow at least daily. The surface water flow bypass requirement applies to cannabis cultivators diverting under a riparian or a pre-1914 appropriative claim of right and without authorized storage even if they qualify for the 2018 Surface Water Dry Season Forbearance Period waiver (Requirement 4.a.)
7. **Numeric Instream Flow Requirements:** The State Water Board has developed Numeric Instream Flow Requirements (minimum instream flows) at compliance gages, to ensure that individual and cumulative effects of water diversion and discharge associated with cannabis cultivation do not affect the instream flows needed for fish spawning, migration, and rearing, and the flows needed to maintain natural flow variability. The [current list of active compliance gages and associated minimum instream flows](https://www.waterboards.ca.gov/water_issues/programs/cannabis/tessmann_instream_flow_requirements.html) are available at: https://www.waterboards.ca.gov/water_issues/programs/cannabis/tessmann_instream_flow_requirements.html. If the individual and cumulative effects of diversions result in unanticipated impacts, however, the State Water Board may revise the narrative and/or minimum instream flow Requirements to better protect instream resources, habitat, and natural flow variability.

Requirements for Groundwater Diversions and Springs Qualifying for an Exemption under Narrative Instream Flow Requirement 3 (Exempt Springs)

8. **Aquatic Base Flow:** This Policy establishes an Aquatic Base Flow, calculated by applying the New England Aquatic Base Flow Standard, as one mechanism to help monitor whether groundwater diverters and diverters from exempt springs are having a cumulative negative impact on surface flows. The State Water Board may develop additional requirements for groundwater diversions and diversions from exempt springs for cannabis cultivation in locations where there are a significant number of groundwater diversions and/or diversions from exempt springs or locations where significant numbers of surface water diverters are switching to groundwater diversions and those diversions have the potential to have negative localized impact on surface flows.
9. **Retail Water Suppliers**³⁷: The instream flow Requirements listed in Narrative Flow Requirement 8 (Aquatic Base Flow) shall not apply to retail water suppliers,

³⁷ Business and Professions Code section 26060.1(a)(1)(B).

as defined in Section 13575 of the Water Code³⁸, whose primary beneficial use is municipal or domestic, unless any of the following circumstances are present:

- a. the retail water supplier has 10 or fewer customers and delivers water that is used for cannabis cultivation;
- b. the retail water supplier delivers 10 percent or more of the diverted water to one or more cannabis cultivator(s) or cannabis cultivation site(s), as established by an assessor's parcel number;
- c. 25 percent or more of the water delivered by the retail water supplier is used for cannabis cultivation; or
- d. a cannabis cultivator and the retail water supplier are affiliates, as defined in California Code of Regulations, title 23, section 2814.20.

Gage Installation, Maintenance, and Operation Requirements

The Deputy Director for Water Rights (Deputy Director) may assign a new compliance gage or require cannabis cultivators to install and operate a local telemetry gage in ungaged watersheds or localized watershed areas if the Deputy Director determines that use of the assigned compliance gage does not adequately protect instream flows or does not adequately represent the localized water demand.

Cannabis cultivators shall ensure that gages required by the Deputy Director are installed, maintained, and operated by a Qualified Professional. For purposes of this requirement, Qualified Professionals include California-registered Professional Civil Engineers, or other classifications of professions approved by the Deputy Director. A list of Qualified Professionals that may document compliance with this requirement will be maintained in the Water Rights section of the State Water Board's Cannabis Cultivation webpage³⁹. Gage equipment shall meet the applicable technical specifications for telemetered measuring devices in California Code of Regulations, title 23, section 933, that apply to diversions of over 10,000 acre-feet per year or more. Gages shall record data at a minimum of 15-minute intervals and report the recorded real-time data hourly, at a minimum, via a public website designated by the State Water Board's Division of Water Rights (Division of Water Rights).

Cannabis cultivators, or an entity acting on behalf of cannabis cultivators, shall submit a gage operation and maintenance (O&M) plan prepared by a Qualified Professional, as defined in the preceding paragraph, to the Deputy Director or the Deputy Director's designee for approval. At a minimum, the gage O&M plan shall include qualifications and names of entities responsible for gage installation, maintenance, and operation; gage specifications and accuracy; gage location; gage installation procedures that ensure accurate operation during the wet season and stability during high flow events;

³⁸ Water Code Chapter 7.5. Water Recycling Act of 1991, Section 13575(b)(5) "Retail water supplier" means any local entity, including a public agency, city, county, or private water company that provides retail water service.

³⁹ [State Water Board's cannabis cultivation webpage:](http://www.waterboards.ca.gov/water_issues/programs/cannabis/index.shtml)
http://www.waterboards.ca.gov/water_issues/programs/cannabis/index.shtml

stream flow measurement procedures for development of rating curves that represent wet season flows; telemetry equipment; and an O&M schedule and procedures. The Deputy Director may require additional information from the cannabis cultivator to support the request. The Deputy Director may include additional requirements as part of any approval of a gage O&M plan.

Prior to October 31, during each water year of gage operation, an annual maintenance and operation summary report prepared by a Qualified Professional, as defined above in this requirement, shall be submitted to the Division of Water Rights that includes, at a minimum: qualifications and names of entities responsible for maintenance and operation; maintenance activities or operational issues for the prior water year of operation; quality assured gage stage and flow data collected and analyzed for prior water year; rating curves for prior and upcoming water year of operation; data collected to establish rating curves for prior and upcoming water year of operation; and any anticipated maintenance plans or operational issues for the upcoming water year. The gage data shall be provided to the Division of Water Rights in a format retrievable and viewable using Microsoft Excel, Microsoft Access, or other software program authorized by the Deputy Director.

SECTION 4 – WATERSHED COMPLIANCE GAGE ASSIGNMENTS

Watershed Compliance Gage Assignments

The State Water Board has developed an online mapping tool to assist cannabis cultivators with determining which compliance gage applies to them and whether they may divert water. The [online mapping tool](https://www.waterboards.ca.gov/water_issues/programs/cannabis/online_mapping_tool.html) is available at: https://www.waterboards.ca.gov/water_issues/programs/cannabis/online_mapping_tool.html.

The online mapping tool allows cannabis cultivators to enter their address or otherwise locate their point of diversion to identify their assigned watershed compliance gage. The online mapping tool identifies existing flow requirements⁴⁰ and provides information on whether the existing flow requirement or the Cannabis Policy Numeric Instream Flow Requirement (minimum instream flows) is required to be met prior to diverting. Stakeholders may request the State Water Board update an existing flow requirement in the mapping tool to clarify: an existing flow requirement's conditions, as applicable; clarify the geographic scope of an existing flow requirement; or add an existing flow requirement that is not identified. The State Water Board may update the existing flow requirements in the online mapping tool, as needed. The compliance gage assignments may change as more information becomes available. The [current list of active compliance gages and associated minimum instream flows](https://www.waterboards.ca.gov/water_issues/programs/cannabis/tessmann_instream_flow_requirements.html) are available at: https://www.waterboards.ca.gov/water_issues/programs/cannabis/tessmann_instream_flow_requirements.html.

To ensure cannabis cultivators are reporting in accordance with the appropriate gage, the cannabis cultivator is required to check the online mapping tool website for their compliance gage assignment daily and prior to diverting water to ensure water is available to divert at that gage (i.e., the prior day's average flow is greater than the Numeric Instream Flow Requirement [minimum instream flow] at the assigned compliance gage).

⁴⁰ Examples of existing flow requirements are minimum instream flows for Federal Energy Regulatory Commission licensed hydropower projects or minimum instream flows prescribed in Biological Opinions issued by the United States Fish and Wildlife Service or National Marine Fisheries Service.

SECTION 5 – PLANNING AND REPORTING

Technical Report Preparation Requirements for Cannabis Cultivation General Order

Enrollees under the Cannabis Cultivation General Order are required to submit technical reports to the appropriate Regional Water Board. The report(s) shall be transmitted in portable document format (PDF) to the e-mail address provided in the notice of receipt provided to the Cannabis Cultivation General Order Enrollee as proof of enrollment. A description of each report and deadline for its submittal is provided below. The table below summarizes report submittal requirements, by tier and risk level, and Cannabis Cultivation General Order Attachment D contains guidance regarding contents of required reports.

Summary of Technical Reports Required by Tier and Risk Level

Tier	Risk Level	Technical Reports
Conditionally Exempt	Not Applicable	Site Closure Report
Tier 1	All	Site Management Plan
Tier 1	Moderate	Site Erosion and Sediment Control Plan
Tier 1	High	Disturbed Area Stabilization Plan
Tier 1	All	Site Closure Report
Tier 2	All	Site Management Plan
Tier 2	Moderate	Site Erosion and Sediment Control Plan
Tier 2	High	Disturbed Area Stabilization Plan
Tier 2	All	Nitrogen Management Plan
Tier 2	All	Site Closure Report

Conditionally exempt cannabis cultivators that can no longer meet the requirements to qualify for conditional exemptions may have to enroll as a Tier 1 or Tier 2 site. If so, cannabis cultivators that no longer qualify for the conditionally exempt cannabis cultivation site status shall submit the technical and monitoring reports associated with their tier status and risk level.

Applicants or current cannabis cultivators that do not comply with the conditional exemptions (enrolled as Tier 1 or Tier 2) must comply with the riparian setback and slope limits and are classified as low, moderate or high risk, as described below:

- **Low Risk:** A cannabis cultivation site is classified as low risk if no part of the disturbed area is located on a slope of 30% or greater. Such cannabis cultivators shall register as low risk and submit a Site Management Plan.
- **Moderate Risk:** A cannabis cultivation site is classified as moderate risk if any part of the disturbed area is located on a slope greater than 30 percent

- and less than 50 percent. Such cannabis cultivators shall register as moderate risk and submit a Site Erosion and Sediment Control Plan.
- High Risk: A cannabis cultivation site is classified as high risk if any part of the disturbed area exists within the riparian setback limits. Such cannabis cultivators shall register as high risk, submit a Disturbed Area Stabilization Plan, and shall address the compliance issue as described below. Because such cannabis cultivators pose a higher risk to water quality and will require a higher level of Regional Water Board oversight, they are subject to a higher application and annual fee. When the cannabis cultivation site is reconfigured to comply with the riparian setbacks, the cannabis cultivator can request the Regional Water Board to reclassify the site to a lower risk level and allow a lower annual fee to be assessed.

Site Management Plan

Within 90 days of the issuance of a notice of receipt, Tier 1 and Tier 2 cannabis cultivators shall submit and implement a *Site Management Plan* that describes how the cannabis cultivator is complying with the Requirements listed in Attachment A. The plan shall describe how the Best Practicable Treatment or Control (BPTC) measures are implemented (e.g., for petroleum fuel storage, specify the specific product or means of compliance). Cannabis cultivators that are landowners of cannabis cultivation sites in North Coast Regional Water Board jurisdiction are required to submit and implement *Site Management Plans* that describe how the Requirements are implemented property-wide, including Requirements implemented to address discharges from legacy activities. The *Site Management Plan* may include a schedule to achieve compliance, but all work must be completed by **the onset of the winter period each year**. (The winter period start date does not relieve a cannabis cultivator from implementing the interim soil stabilization Requirements described in Attachment A of this Policy. Interim measures are those that are implemented immediately upon site development.) Attachment D of the Cannabis Cultivation General Order provides guidance on the contents of the *Site Management Plan*.

Site Erosion and Sediment Control Plan

Tier 1 or Tier 2 cannabis cultivators classified as moderate risk (any portion of the disturbed area is located on a slope greater than 30 percent and less than 50 percent), shall submit a *Site Erosion and Sediment Control Plan* that describes how the cannabis cultivator will implement the Requirements listed in Attachment A of this Policy. Because moderate risk sites are located on steeper slopes, additional Requirements, or a higher density of Requirements may be appropriate to achieve the goal of minimizing the discharge of sediment off-site. The report shall include an analysis of slope stability. The report shall be approved by the Regional Water Board Executive Officer prior to implementation

Consistent with the Business and Professions Code, the Forest Practice Act, and other state laws, certain technical report preparation, design calculations, and report

preparation must be prepared under the supervision of a California licensed civil engineer, professional forester, or professional geologist. When required, the *Site Erosion and Sediment Control Plan* shall be prepared by an individual qualified as described below:

- i. A California Registered Professional Civil Engineer.
- ii. A California Registered Professional Geologist.
- iii. A California Certified Engineering Geologist.
- iv. A California Registered Landscape Architect.
- v. A Professional Hydrologist registered through the American Institute of Hydrology.
- vi. A Certified Professional in Erosion and Sediment Control (CPESC)TM registered through EnviroCert International, Inc.
- vii. A Certified Professional in Storm Water Quality (CPSWQ)TM registered through EnviroCert International, Inc.
- viii. A Professional in Erosion and Sediment Control registered through the National Institute for Certification in Engineering Technologies (NICET).

Attachment D of the Cannabis Cultivation General Order provides guidance on the contents of the *Site Erosion and Sediment Control Plan*.

Disturbed Area Stabilization Plan

Tier 1 or Tier 2 cannabis cultivators classified as high risk (any portion of the disturbed area exists within the riparian setbacks Requirements specified in Section 1 of this Policy except as authorized under 404/401 CWA permits, a CDFW LSA Agreement, coverage under the Cannabis Cultivation General Order water quality certification, or site-specific WDRs issued by the Regional Water Board), shall submit a *Disturbed Area Stabilization Plan* that describes how compliance with the riparian setbacks will be achieved. The report shall be approved by the Regional Water Board Executive Officer prior to implementation.

Areas disturbed upon initial site development that are located within the riparian setback specified in the Policy are considered disturbed area and will place the cannabis cultivation site under the high-risk level. Access roads and watercourse crossings designed, constructed, and maintained consistent with the Road Handbook are not considered disturbed areas.

Consistent with the Business and Professions Code, the Forest Practice Act, and other state laws, certain technical report preparation, design calculations, and report preparation must be prepared under the supervision of a California licensed civil engineer, professional forester, or professional geologist.

When required, the *Disturbed Area Stabilization Plan* shall be prepared by a Qualified Professional as described in this attachment (Attachment A).

If the cannabis cultivator cannot achieve compliance by the next onset of the winter period (stabilization work will continue into the winter period or will continue the following year), the Cannabis Cultivator must include a time schedule and scope of work for approval by the Regional Water Board Executive Officer and use in preparing an enforcement order. Attachment D of the Cannabis Cultivation General Order provides guidance on the contents of the *Disturbed Area Stabilization Plan*.

Nitrogen Management Plan

Within 90 days of the issuance of a notice of receipt, all Tier 2 cannabis cultivators with a cannabis cultivation area, or aggregate of cultivation areas, greater than one acre shall submit a *Nitrogen Management Plan* (NMP) for the cannabis cultivation site. The NMP shall calculate all the nitrogen applied to the cannabis cultivation site (dissolved in irrigation water, originating in soil amendments, and applied fertilizers) and describe procedures to limit excessive fertilizer application. Attachment D of the Cannabis Cultivation General Order provides guidance on the contents of a *Nitrogen Management Plan*.

Site Closure Report

At least 90 days prior to ending cannabis cultivation at a site, a registered (conditionally exempt) or enrolled (Tier 1 or Tier 2) cannabis cultivator shall submit a *Site Closure Report* that describes how the site will be decommissioned to prevent sediment and turbidity discharges that degrade water quality. If construction activities are proposed in the *Site Closure Report*, a project implementation schedule shall be included in the report. Attachment D of the Cannabis Cultivation General Order provides guidance on the contents of the *Site Closure Report*. A Notice of Termination must be submitted (Attachment C of the Cannabis Cultivation General Order) with the *Site Closure Report*.

SECTION 6 – USEFUL GUIDANCE DOCUMENTS

1. [Handbook for Forest, Ranch, & Rural Roads: A Guide for Planning, Designing, Constructing, Reconstructing, Upgrading, Maintaining, and Closing Wildland Roads](http://www.pacificwatershed.com/sites/default/files/RoadsEnglishBOOKapril2015b.pdf)
<http://www.pacificwatershed.com/sites/default/files/RoadsEnglishBOOKapril2015b.pdf>
2. [A Water Quality and Stream Habitat Protection Manual for County Road Maintenance in Northwestern California Watersheds](http://www.5counties.org/roadmanual.htm) <http://www.5counties.org/roadmanual.htm>
3. [Construction Site BMP Fact Sheets](http://www.dot.ca.gov/hq/construc/stormwater/factsheets.htm)
<http://www.dot.ca.gov/hq/construc/stormwater/factsheets.htm>
4. [United States Environmental Protection Agency Riparian/Forested Buffer](https://nepis.epa.gov/Exe/ZyPDF.cgi/2000W45Y.PDF?Dockey=2000W45Y.PDF)
<https://nepis.epa.gov/Exe/ZyPDF.cgi/2000W45Y.PDF?Dockey=2000W45Y.PDF>
5. [Creating Effective Local Riparian Buffer Ordinances](http://www.ohioenvironmentallawblog.com/uploads/file/UGA%20riparian_buffer_guidebook.pdf)
http://www.ohioenvironmentallawblog.com/uploads/file/UGA%20riparian_buffer_guidebook.pdf
6. [How to Install Residential Scale Best Management Practices \(BMPs\) in the Lake Tahoe Basin](http://www.tahoebmp.org/Documents/Contractors%20BMP%20Manual.pdf) <http://www.tahoebmp.org/Documents/Contractors%20BMP%20Manual.pdf>
7. [Spoil Pile BMPs](http://michigan.gov/documents/deq/deq-wb-nps-sp_250905_7.pdf) http://michigan.gov/documents/deq/deq-wb-nps-sp_250905_7.pdf
8. [Sanctuary Forest Water Storage Guide](https://greywateraction.org/wpcontent/uploads/2014/11/SanctuaryForrest_Water_Storage_Guide.pdf)
https://greywateraction.org/wpcontent/uploads/2014/11/SanctuaryForrest_Water_Storage_Guide.pdf
9. [Natural Resources Conservation Service-USDA, “Ponds – Planning, Design, Construction”, Agriculture Handbook](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030362.pdf)
http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_030362.pdf
10. [Division of Safety of Dams Size Requirements](https://water.ca.gov/Programs/All-Programs/Division-of-Safety-of-Dams/Jurisdictional-Sized-Dams) <https://water.ca.gov/Programs/All-Programs/Division-of-Safety-of-Dams/Jurisdictional-Sized-Dams>
11. [Water Tanks: Guidelines for Installation and Use](http://www.waterandseptic tanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf)
http://www.waterandseptic tanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf
12. [Guidelines for Use and Installation of Above Ground Water Tanks](http://www.waterandseptic tanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf)
http://www.waterandseptic tanks.com/Portals/0/files/GUIDELINES-FOR-INSTALLATION-OF-WATER-TANKS-_rev1_-03-20-08-_2_.pdf

- 13. BEST MANAGEMENT PRACTICES (BMP's) University of California Cooperative Extension**
http://www.waterboards.ca.gov/sandiego/water_issues/programs/wine_country/docs/updates081910/ucce_bmps.pdf
- 14. California Storm Water Quality Association, Section 4: Source Control BMPs**
<https://www.casqa.org/resources/bmp-handbooks>
- 15. CA DOT Solid Waste Management Plan**
<http://www.dot.ca.gov/hq/construc/stormwater/WM-05.pdf>
- 16. State Water Resources Control Board Onsite Wastewater Treatment System (OWTS) policy** http://www.waterboards.ca.gov/water_issues/programs/owts/docs/owts_policy.pdf
- 17. California Riparian Habitat Restoration Handbook**
https://water.ca.gov/LegacyFiles/urbanstreams/docs/ca_riparian_handbook.pdf
- 18. The Practical Streambank Bioengineering Guide**
http://www.nrcs.usda.gov/Internet/FSE_PLANTMATERIALS/publications/idpmcpu116.pdf
- 19. Watershed Best Management Practices for Cannabis Growers and other Rural Gardeners**
<http://mcrccd.org/resources/publications>
- 20. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region** <https://usace.contentdm.oclc.org/utis/getfile/collection/p266001coll1/id/7627>
- 21. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region**
<https://usace.contentdm.oclc.org/utis/getfile/collection/p266001coll1/id/7646>









California Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
REGION 1 – NORTHERN REGION
619 Second Street
Eureka, CA 95501
www.wildlife.ca.gov

GAVIN C. NEWSOM, Governor
CHARLTON H. BONHAM, Director



October 7, 2020

Brian Roberts
The Homestead Cannabis Weed Co. LLC
PO Box 244
Blocksburg, CA 95514

Subject: **Notification of Lake or Streambed Alteration No. 1600-2018-0649-R1
County Assessor's Parcel Number 217-401-011**

Dear Brian Roberts:

On October 24, 2018, the California Department of Fish and Wildlife (CDFW) received your Notification of Lake or Streambed Alteration (Notification). On November 23, 2018, your Notification was deemed complete due to the passage of 30 days with no action taken by CDFW to incomplete your Notification.

The Department is required to submit a draft Lake or Streambed Alteration Agreement (Agreement) to you within 60 calendar days from the date the Notification is complete. Therefore, the Department had until January 22, 2019, to issue you a draft Agreement or inform you that an Agreement is not required. Due to current staffing limitations, the Department did not meet that date. As a result, by law, you may now complete the **project described in your notification** without an Agreement.

Please note that pursuant to Fish and Game Code (FGC) section 1602, subdivision (a)(4)(D), if you proceed with this project, **it must be the same as described and conducted in the same manner as specified in the notification and any modifications to that Notification received by CDFW in writing prior to the date of this letter.** This includes completing the project within the proposed term and seasonal work period and implementing all avoidance and mitigation measures to protect fish and wildlife resources specified in the notification. If the term proposed in your notification has expired, you will need to re-notify CDFW before you may begin your project. Beginning or completing a project that differs in any way from the one described in the notification may constitute a violation of FGC section 1602.

This letter does not retroactively permit any stream crossings, water diversions or other encroachments not described within the notification information received. Any additional projects or activities would require the submittal of a new Notification.

Also note that while you are entitled to complete the project without an Agreement, you are still responsible for complying with other applicable local, state, and federal laws. These include FGC sections 5650 and 5652 which make it unlawful to pollute waters of the state. FGC section 5650 makes it unlawful to deposit in, permit to pass into, or place

Conserving California's Wildlife Since 1870

Brian Roberts
October 7, 2020
Page 2 of 2

where it can pass into waters of the state any substance or material deleterious to fish, plant life, mammals, or bird life, including, but not limited to gasoline and oil, as well as sediment. FGC section 5652 makes it unlawful to deposit in, permit to pass into, or place where it can pass into waters of the state, or to abandon, dispose of, or throw away, within 150 feet of the high water mark of the waters of the state, any garbage, refuse, or waste, among other materials. A person who violates FGC sections 1602, 5650, and 5652 in conjunction with the cultivation or production of cannabis is subject to significant penalties or fines. Specifically, CDFW may impose civil penalties administratively against any person found by CDFW to have violated these FGC sections in connection with the production or cultivation of cannabis following a complaint and, if requested, a hearing.

Other statutes in the FGC that might apply to your activity, include, but not limited to the following sections: 2080 et seq. (species listed as threatened or endangered, or a candidate for listing under the California Endangered Species Act); 1908 (rare native plants); 3511, 4700, 5050, and 5515 (fully protected species); 3503 (bird nests and eggs); 3503.5 (birds of prey); 5901 (fish passage); 5937 (sufficient water for fish); and 5948 (obstruction of stream).

Finally, if you decide to proceed with your project without an Agreement, you must have a copy of this letter and your notification with all attachments available at all times at the work site. Please note this letter is only valid until **January 22, 2024** which is 5 years from the date the Department was required to provide a Draft Agreement.

If you have any questions regarding this letter, please contact Andrew Orahoske, Environmental Scientist at Andrew.orahoske@wildlife.ca.gov.

Sincerely,



Cheri Sanville
Senior Environmental Scientist Supervisor

ec: Steve Breitenstein
Green Road Consulting
steve@greenroadconsulting.com

Andrew Orahoske
California Department of Fish and Wildlife
andrew.orahoske@wildlife.ca.gov

Invoice Preview? Yes **NOTE:** Preview/Yes - Next Step will populate Invoice Items table at the bottom of this screen.
 Preview/No - Next Step will assign invoice number and start the invoice activity.

Add New Cost Report Item

All Cost Report Items

Application 12237

Edit Table		Delete		No.	User	Category	Description	Task Note	Hour	Type	User Burden Rate	Charge	Payment / Credit
Item Type: 1-Planning Fees													
+	1	12/22/2016				Deposit	Miscellaneous: Technology Fee: Administrative Review Permit					\$45.00	\$45.00
+	2	12/22/2016				Other Dept.	Building Division: Review Fee					\$99.45	\$99.45
+	3	12/22/2016				Other Dept.	Environmental Health: Land Use Permits for commercial development					\$298.00	\$298.00
+	4	12/22/2016				Other Dept.	Public Works: Base Fee: Special Permit					\$188.00	\$188.00
+	5	12/22/2016				Deposit	Administrative Review: Other - Administrative Review Deposit						\$888.00
+	6	12/22/2016				Deposit	Application Assistance: Cannabis Application Assistance/Pre-Application Review						\$260.00
Item Type: 5-Staff Cost													
+	7	12/22/2016	Cliff Johnson			Project Staff Work			0.25	Regular	\$122.97/hour	\$30.74	
+	8	12/27/2016	Cannabis Planner			Project Staff Work	Process registration, affidavit production, review project for completeness and project advancement.		3.5	Regular	\$109.01/hour	\$381.54	
+	9	9/15/2017	Joshua Dorris			POD	intake/open		0.25	Regular	\$79.89/hour	\$19.97	
+	10	2/2/2018	Tayla Copeland			Phone Calls	status		0.25	Regular	\$60.79/hour	\$15.20	
+	11	3/12/2018	Portia Saucedo			Records Check / Research	CAV		1.25	Regular	\$60.79/hour	\$75.99	
+	12	6/19/2018	Christian Nielsen			Parcel Status Check	Cannabis Parcel check		0.25	Regular	\$89.45/hour	\$22.36	
+	13	8/20/2018	Stephen Luther			Prepare Correspondence	review expansion and write violation letter		1	Regular	\$79.34/hour	\$79.34	
+	14	8/20/2018	Zsofia Odry			POD	existing cultivation inquiry		0.25	Regular	\$79.34/hour	\$19.84	
+	15	8/20/2018	Keenan Hilton			Prepare Correspondence	email agent re next steps		0.25	Regular	\$79.34/hour	\$19.84	
+	16	8/21/2018	Stephen Luther			Project Staff Work	review CAV and print pictures		1.25	Regular	\$79.34/hour	\$99.18	
+	17	8/22/2018	Stephen Luther			Project Staff Work	issue interim permit and settlement		1	Regular	\$79.34/hour	\$79.34	
+	18	8/29/2018	Zsofia Odry			Records Check / Research	water Q, status Q		0.25	Regular	\$79.34/hour	\$19.84	
+	19	9/11/2018	Steven Santos			Update Records	GTL		0.15	Regular	\$128.41/hour	\$19.26	
Item Type: 6-Misc. Cost													
+	20	6/13/2018	Christian Nielsen				copy of recorded document from rec ofc	document required for legal parcel check records office receipt 18-10338				\$3.00	
Total:												\$1,515.89	\$1,778.45

Edit Table Delete

Print Cost Report

All Invoice Item Table

Empty.



Humboldt County
 Planning and Building Department
 3015 H Street, Eureka, CA 95501
 Phone (707) 445-7245
 Planning Project
 Staff Cost Report

Applicant Information

Name The Homestead Collective
Address 1 Weed Co, LLC
Address 2 Brian Roberts
City, State Zip PO Box 244
 Blocksburg, CA 95514
Phone

Project Information

Cost Report Date 5/13/2020
Project Number PLN-12237-SP
Primary Parcel Number 217-401-011-000
Short Project Description Existing 9,000 OD

Staff Costs

Date	Staff	Title	Task Description	Task Note	Hours	Burden Rate	Cost
3/26/2019	Devin Sutfin	Planner	Ongoing Project Work	CPOD- spoke with applicant at counter, received THPO check, answered questions regarding potential infusion and whether target parcel could accept that activity.	0.50	110.00	55.00
3/26/2019	Max Hilken	LACO Planner	Ongoing Project Work		0.25	92.00	23.00
4/5/2019	Max Hilken	LACO Planner	Ongoing Project Work		0.25	92.00	23.00
4/8/2019	Blake Batten	Planner	Ongoing Project Work	State license response	0.10	110.00	11.00
4/9/2019	Devin Sutfin	Planner	Ongoing Project Work	respond to state license request	0.10	110.00	11.00
4/11/2019	Max Hilken	LACO Planner	Ongoing Project Work	Moved to Step 2	0.75	92.00	69.00
4/25/2019	Sheriff Humboldt County	Sheriff	Sheriff	Infraction/misdemeanor only in DA files	0.50	-	-
5/9/2019	Keenan Hilton	Planner	Ongoing Project Work	phone call with applicant	0.25	110.00	27.50
5/23/2019	Meghan Ryan	Senior Planner	Ongoing Project Work	project review	1.00	145.00	145.00
11/8/2019	Meghan Ryan	Senior Planner	Staff Report	draft staff report	3.75	145.00	543.75
11/13/2019	Meghan Ryan	Senior Planner	Staff Report	draft staff report	2.25	145.00	326.25
11/14/2019	Meghan Ryan	Senior Planner	Staff Report	null	3.50	145.00	507.50
11/21/2019	Rodney Yandell	Planner	Ongoing Project Work	THPO consult	0.25	110.00	27.50
12/3/2019	Meghan Ryan	Senior Planner	Staff Report	null	0.25	145.00	36.25

From: Life IsAwesome lifeisawesome2018@gmail.com
Subject: Re: Dec 3rd Planning Comm meeting agenda #3 Homestead Collective
Date: December 2, 2020 at 10:16 PM
To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

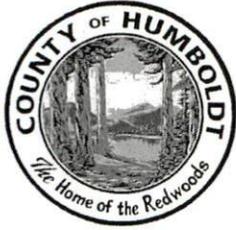
Please attach to the zoning administration hearing at 10:00am on Dec 3rd

Thanks

On Wed, Dec 2, 2020, 11:42 AM Life IsAwesome <lifeisawesome2018@gmail.com> wrote:
Conditions Attachment 1 Responses

Please add this as an attachment to
SP-12237
APN# 217-401-011-000
Agenda Item #3

LSA AGREEMENT



COUNTY OF HUMBOLDT
Planning and Building Department
3015 H Street, Eureka, CA 95501
Phone (707)445-7541

Invoice No.: **PLI20-2217**

Invoice Date: **11/23/2020**

**Payment is due in our office within
30 Days of Invoice Date. Please
include Invoice No. on Check.**

INVOICE

RECORD INFORMATION

Applicant: The Homestead Collective Weed Company LLC

Brian Roberts
PO Box 244
Blocksburg, CA 95514

Record ID: PLN-12237-SP

Property Address: 5576 Homestead Rd, Blocksburg, CA

Parcel Number: 217-401-011-000

Description of Work: Homestead Collective Weed Company LLC - Existing 9,000 OD

**Payment is due in our office
30 days
from the invoice date**

FEE DETAIL

Fee Description	Fee Notes	Fee Amount
CAN: Additional Staff Costs	to 11/19/20.	\$72.50
		<hr/>
		\$72.50



COUNTY OF HUMBOLDT
Planning and Building Department
3015 H Street, Eureka, CA 95501
Phone (707)445-7541

Invoice No.: **PLI20-2038**

Invoice Date: **11/06/2020**

**Payment is due in our office within
30 Days of Invoice Date. Please
include Invoice No. on Check.**

INVOICE

RECORD INFORMATION

Applicant: The Homestead Collective Weed Company LLC

Brian Roberts
PO Box 244
Blocksburg, CA 95514

Record ID: PLN-12237-SP

Property Address: 5576 Homestead Rd, Blocksburg, CA

Parcel Number: 217-401-011-000

Description of Work: Homestead Collective Weed Company LLC - Existing 9,000 OD

**Payment is due in our office
30 days
from the invoice date**

FEE DETAIL

Fee Description	Fee Notes	Fee Amount
CAN: Additional Staff Costs	Staff costs.	\$2,014.75
		<hr/>
		\$2,014.75



COUNTY OF HUMBOLDT
 Planning and Building Department
 3015 H Street, Eureka, CA 95501
 Phone (707)445-7541



PAST DUE

Invoice No.: **PLI20-0917**

Invoice Date: **05/13/2020**

Payment is due in our office within
**30 Days of Invoice Date. Please
 include Invoice No. on Check.**

INVOICE

RECORD INFORMATION

Applicant: The Homestead Collective Weed Company LLC

 Brian Roberts
 PO Box 244
 Blocksburg, CA 95514

Record ID: PLN-12237-SP

Property Address: 5576 Homestead Rd, Blocksburg, CA

Parcel Number: 217-401-011-000

Description of Work: Homestead Collective Weed Company LLC - Existing 9,000 OD

Payment is due in our office
30 days
 from the invoice date

FEE DETAIL

Fee Description	Fee Notes	Fee Amount
CAN: Additional Staff Costs		\$1,522.50
		\$1,522.50



PAST DUE



COUNTY OF HUMBOLDT
 Planning and Building Department
 3015 H Street, Eureka, CA 95501
 Phone (707)445-7541



PAST DUE

Invoice No.: **PLI20-0759**

Invoice Date: **04/14/2020**

**Payment is due in our office within
 30 Days of Invoice Date. Please
 include Invoice No. on Check.**

INVOICE

RECORD INFORMATION

Applicant: The Homestead Collective Weed Company LLC

 Brian Roberts
 PO Box 244
 Blocksburg, CA 95514

Record ID: PLN-12237-SP

Property Address: 5576 Homestead Rd, Blocksburg, CA

Parcel Number: 217-401-011-000

Description of Work: Homestead Collective Weed Company LLC - Existing 9,000 OD

**Payment is due in our office
 30 days
 from the invoice date**

FEE DETAIL

Fee Description	Fee Notes	Fee Amount
CAN: Additional Staff Costs		\$1,677.50
CAN: Public Noticing Costs	PNMIT 30435 PC 3/19/20.	\$21.76
CAN: Public Noticing Costs	TS 0006467483 PC 3/19/2020	\$476.59
		\$2,175.85



PAST DUE



COUNTY OF HUMBOLDT
 Planning and Building Department
 3015 H Street, Eureka, CA 95501
 Phone (707)445-7541



PAST DUE

Invoice No.: **PLI20-0332**

Invoice Date: **02/21/2020**

**Payment is due in our office within
 30 Days of Invoice Date. Please
 include Invoice No. on Check.**

INVOICE

RECORD INFORMATION

Applicant: The Homestead Collective Weed Company LLC
 Brian Roberts
 PO Box 244
 Blocksburg, CA 95514

Record ID: PLN-12237-SP

Property Address: 5576 Homestead Rd, Blocksburg, CA

Parcel Number: 217-401-011-000

Description of Work: Homestead Collective Weed Company LLC - Existing 9,000 OD

*Payment is due in our office
 30 days
 from the invoice date*

FEE DETAIL

Fee Description	Fee Notes	Fee Amount
CAN: Additional Staff Costs	Staff hours.	\$2,567.00
Cannabis NWIC		\$75.00
CAN: OnTrack Balance		\$(262.56)
		\$2,379.44



PAST DUE



HUMBOLDT COUNTY
 PLANNING AND BUILDING DEPARTMENT
 3015 H STREET, EUREKA, CA 95501 ~ PHONE (707) 445-7245

**PLANNING PROJECT
 STAFF COST REPORT**

APPLICANT INFORMATION

Name The Homestead Collective Weed Comp
Organization
Address 1 Brian Roberts
Address 2 PO Box 244
City, State, Zip Blocksburg, CA 95514
Phone

PROJECT INFORMATION

Cost Report Date 11/23/2020
Reporting Period 11/05/2017 - 11/23/2020
Project Number PLN-12237-SP
Primary Parcel Number 217-401-011-000
Short Project Description Homestead Collective Weed Compan

STAFF COSTS

Date	Staff	Job Class	Task Description	Task Note	Hours	Burden Rate / Hour	Charge
03/26/2019	Max Hilken	LACO Planner	Ongoing Project Work		0.25	\$92	\$23
03/26/2019	Devin Sutfin	Planner	Ongoing Project Work	CPOD- spoke with applicant at counter, received THPO check, answered questions regarding potential infusion and whether target parcel could accept that activity.	0.50	\$110	\$55
04/05/2019	Max Hilken	LACO Planner	Ongoing Project Work		0.25	\$92	\$23
04/08/2019	Blake Batten	Planner	Ongoing Project Work	State license response	0.10	\$110	\$11
04/09/2019	Devin Sutfin	Planner	Ongoing Project Work	respond to state license request	0.10	\$110	\$11
04/11/2019	Max Hilken	LACO Planner	Ongoing Project Work	Moved to Step 2	0.75	\$92	\$69
04/25/2019	Sheriff Humboldt County	Sheriff	Sheriff	Infraction/misdemeanor only in DA files	0.50	\$0	\$0
05/09/2019	Keenan Hilton	Planner	Ongoing Project Work	phone call with applicant	0.25	\$110	\$27.5
05/23/2019	Meghan Ryan	Senior Planner	Ongoing Project Work	project review	1.00	\$145	\$145
11/08/2019	Meghan Ryan	Senior Planner	Staff Report	draft staff report	3.75	\$145	\$543.75
11/13/2019	Meghan Ryan	Senior Planner	Staff Report	draft staff report	2.25	\$145	\$326.25
11/14/2019	Meghan Ryan	Senior Planner	Staff Report	null	3.50	\$145	\$507.5
11/21/2019	Rodney Yandell	Planner	Ongoing Project Work	THPO consult	0.25	\$110	\$27.5
12/03/2019	Meghan Ryan	Senior Planner	Staff Report	null	0.25	\$145	\$36.25
02/19/2020	Meghan Ryan	Senior Planner	Staff Report	project review	1.75	\$145	\$253.75
02/19/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	file review - CAV review - com with supervising - phone call with applicant	1.75	\$145	\$253.75
02/21/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	project review correspondence to applicant re: moving forward	1.00	\$145	\$145

APPLICANT INFORMATION

Name The Homestead Collective Weed Comp
 Organization
 Address 1 Brian Roberts
 Address 2 PO Box 244
 City, State, Zip Blocksburg, CA 95514
 Phone

PROJECT INFORMATION

Cost Report Date 11/23/2020
 Reporting Period 11/05/2017 - 11/23/2020
 Project Number PLN-12237-SP
 Primary Parcel Number 217-401-011-000
 Short Project Description Homestead Collective Weed Compan

STAFF COSTS

Date	Staff	Job Class	Task Description	Task Note	Hours	Burden	
						Rate / Hour	Charge
02/21/2020	Meghan Ryan	Senior Planner	Staff Report	review correspondence from applicant - discuss with supervising planner draft notice and notice order	0.75	\$145	\$108.75
03/03/2020	Augustus Grochau	Planning Technician	Noticing	Notice List created	0.50	\$110	\$55
03/06/2020	Meghan Ryan	Senior Planner	Staff Report	draft staff report	2.75	\$145	\$398.75
03/09/2020	Meghan Ryan	Senior Planner	Staff Report	draft staff report	5.25	\$145	\$761.25
03/17/2020	Cliff Johnson	Supervising Planner	Hearing	Staff report review and edits	2.50	\$185	\$462.5
04/16/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	hearing discussion with CJ contact applicant re: May 7, 2020, hearing and details	0.25	\$145	\$36.25
05/06/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	review applicant materials prepare supplemental meet with supervising planner prepare presentation	3.25	\$145	\$471.25
05/07/2020	Meghan Ryan	Senior Planner	Hearing	PC preparation and attendance at meeting	7.00	\$145	\$1015
05/07/2020	Keenan Hilton	Planner	Ongoing Project Work	review powerpoint presentation with assigned planner	0.35	\$110	\$38.5
05/07/2020	Steven Santos	Senior Planner	Ongoing Project Work	Research, update records.	0.25	\$145	\$36.25
05/21/2020	Meghan Ryan	Senior Planner	Hearing	PC prep and attend PC hearing	4.50	\$145	\$652.5
05/21/2020	Liza Welsh	Planner	Ongoing Project Work	Watch and provide comments on Meghan Ryan's PC presentation	0.50	\$110	\$55
05/27/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	IP status review	0.25	\$145	\$36.25
09/02/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	project status review	0.25	\$145	\$36.25
09/15/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	correspondence review check in with Water Board staff re: wetland report	0.50	\$145	\$72.5
09/21/2020	Meghan Ryan	Senior Planner	Staff Report	draft staff report	2.50	\$145	\$362.5
09/23/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	meeting coordination	0.25	\$145	\$36.25

APPLICANT INFORMATION

Name The Homestead Collective Weed Comp
 Organization
 Address 1 Brian Roberts
 Address 2 PO Box 244
 City, State, Zip Blocksburg, CA 95514
 Phone

PROJECT INFORMATION

Cost Report Date 11/23/2020
 Reporting Period 11/05/2017 - 11/23/2020
 Project Number PLN-12237-SP
 Primary Parcel Number 217-401-011-000
 Short Project Description Homestead Collective Weed Compan

STAFF COSTS

Date	Staff	Job Class	Task Description	Task Note	Hours	Burden	
						Rate / Hour	Charge
09/28/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	prep and meet with applicant	0.75	\$145	\$108.75
11/05/2020	Meghan Ryan	Senior Planner	Staff Report	draft staff report	1.00	\$145	\$145
11/06/2020	Meghan Ryan	Senior Planner	Staff Report	meet with Director re: moving project forward draft staff report	3.00	\$145	\$435
11/19/2020	Meghan Ryan	Senior Planner	Ongoing Project Work	meet with applicant	0.50	\$145	\$72.5

Total \$7854.25

PL120-0332 -2567.00
 PL120-0759 -1677.50
 PL120-0917 -1522.50
 PL120-2038 -2014.75

72.50

From: Life IsAwesome lifeisawesome2018@gmail.com

Subject: Re: Dec 3rd meeting Agenda #3 Homestead Collective

Date: December 2, 2020 at 10:13 PM

To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

There is 4 emails that need to be attached to the zoning administration hearing at 10:00 on Dec 3rd 2020

Thanks

Brian

On Wed, Dec 2, 2020, 11:37 AM Life IsAwesome <lifeisawesome2018@gmail.com> wrote:

Conditions Attachment 1 Responses

Please add this as an attachment to

SP-12237

APN# 217-401-011-000

Agenda Item #3

Condition #12

From: Life IsAwesome lifeisawesome2018@gmail.com
Subject: Re: Dec 3rd Planning commis Meeting Agenda #3 Homestead Collective
Date: December 2, 2020 at 10:15 PM
To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

Please attach these to the zoning administration hearing at 10:00am on Dec 3rd

On Wed, Dec 2, 2020, 11:44 AM Life IsAwesome <lifeisawesome2018@gmail.com> wrote:

Conditions Attachment 1 Responses

Please add this as an attachment to

SP-12237

APN# 217-401-011-000

Agenda Item #3

Item #3 Cost Recovery bills

From: Life IsAwesome lifeisawesome2018@gmail.com
 Subject: Dec 3rd Planning Commis Meeting Agenda #3 Homestead Collective
 Date: December 2, 2020 at 11:45 AM
 To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

Conditions Attachment 1 Responses

Please add this as an attachment to
 SP-12237
 APN# 217-401-011-000
 Agenda Item #3

Item #3 Cost Recovery bills

From 1/1/2000 To 2/21/2020 Burden Rate Full

Invoice Preview? Yes **NOTE: Preview/Yes - Next Step will populate Invoice Items table at the bottom of this screen. Preview/No - Next Step will assign Invoice number and start the Invoice activity.**

Application 12237

No.	User	Category	Description	Task Note	Hour	Type	User Burden Rate	Charge	Payment / Credit
Item Type: 1-Planning Fees									
1	12/22/2016	Deposit	Miscellaneous: Technology Fee: Administrative Review Permit					\$45.00	\$45.00
2	12/22/2016	Other Dept.	Building Division: Review Fee					\$99.45	\$99.45
3	12/22/2016	Other Dept.	Environmental Health: Land Use Permits for commercial development					\$298.00	\$298.00
4	12/22/2016	Other Dept.	Public Works: Base Fee: Special Permit					\$188.00	\$188.00
5	12/22/2016	Deposit	Administrative Review: Other - Administrative Review Deposit						\$888.00
6	12/22/2016	Deposit	Application Assistance: Cannabis Application Assistance/Pre-Application Review						\$260.00
Item Type: 5-Staff Cost									
7	12/22/2016	Cliff Johnson	Project Staff Work		0.25	Regular	\$122.97/hour	\$30.74	
8	12/27/2016	Cannabis Planner	Project Staff Work	Process registration, affidavit production, review project for completeness and project advancement.	3.5	Regular	\$109.01/hour	\$381.54	
9	2/15/2017	Joshua Dorris	POD	intake/open	0.25	Regular	\$79.89/hour	\$19.97	
10	2/2/2018	Taylor Copeland	Phone Calls	status	0.25	Regular	\$60.79/hour	\$15.20	
11	3/12/2018	Portia Saucedo	Records Check / Research	CAV	1.25	Regular	\$60.79/hour	\$75.99	
12	6/19/2018	Christian Nielsen	Parcel Status Check	Cannabis Parcel check	0.25	Regular	\$89.45/hour	\$22.36	
13	8/20/2018	Stephen Luther	Prepare Correspondence	review expansion and write violation letter	1	Regular	\$79.34/hour	\$79.34	
14	8/20/2018	Zsoltia Odry	POD	existing cultivation inquiry	0.25	Regular	\$79.34/hour	\$19.84	
15	8/20/2018	Keenan Milton	Prepare Correspondence	email agent re next steps	0.25	Regular	\$79.34/hour	\$19.84	
16	8/21/2018	Stephen Luther	Project Staff Work	review CAV and print pictures	1.25	Regular	\$79.34/hour	\$99.18	
17	8/22/2018	Stephen Luther	Project Staff Work	issue interim permit and settlement	1	Regular	\$79.34/hour	\$79.34	
18	8/29/2018	Zsoltia Odry	Records Check / Research	water Q, status Q	0.25	Regular	\$79.34/hour	\$19.84	
19	9/11/2018	Steven Santos	Update Records	GTL	0.15	Regular	\$128.41/hour	\$19.26	
Item Type: 6-Misc. Cost									
20	6/13/2018	Christian Nielsen	copy of recorded document from rec ofc	document required for legal parcel check recorders office receipt 18-10338				\$3.00	

October 7, 2020

Brian Roberts
The Homestead Cannabis Weed Co. LLC
PO Box 244
Blocksburg, CA 95514

Subject: **Notification of Lake or Streambed Alteration No. 1600-2018-0649-R1**
County Assessor's Parcel Number 217-401-011

Dear Brian Roberts:

On October 24, 2018, the California Department of Fish and Wildlife (CDFW) received your Notification of Lake or Streambed Alteration (Notification). On November 23, 2018, your Notification was deemed complete due to the passage of 30 days with no action taken by CDFW to incomplete your Notification.

The Department is required to submit a draft Lake or Streambed Alteration Agreement (Agreement) to you within 60 calendar days from the date the Notification is complete. Therefore, the Department had until January 22, 2019, to issue you a draft Agreement or inform you that an Agreement is not required. Due to current staffing limitations, the Department did not meet that date. As a result, by law, you may now complete the **project described in your notification** without an Agreement.

Please note that pursuant to Fish and Game Code (FGC) section 1602, subdivision (a)(4)(D), if you proceed with this project, **it must be the same as described and conducted in the same manner as specified in the notification and any modifications to that Notification received by CDFW in writing prior to the date of this letter.** This includes completing the project within the proposed term and seasonal work period and implementing all avoidance and mitigation measures to protect fish and wildlife resources specified in the notification. If the term proposed in your notification has expired, you will need to re-notify CDFW before you may begin your project. Beginning or completing a project that differs in any way from the one described in the notification may constitute a violation of FGC section 1602.

This letter does not retroactively permit any stream crossings, water diversions or other encroachments not described within the notification information received. Any additional projects or activities would require the submittal of a new Notification.

Also note that while you are entitled to complete the project without an Agreement, you are still responsible for complying with other applicable local, state, and federal laws. These include FGC sections 5650 and 5652 which make it unlawful to pollute waters of the state. FGC section 5650 makes it unlawful to deposit in, permit to pass into, or place

Conserving California's Wildlife Since 1870

LSA AGREEMENT

Agenda Item #3

APN# 217-401-011-000

SP-12237

Please add this as an attachment to

Conditions Attachment 1 Responses

From: **Life IsAwesome** lfeisawesome2018@gmail.com
Subject: Dec 3rd Planning Comm meeting agenda #3 Homestead Collective
Date: December 2, 2020 at 11:43 AM
To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lfeisawesome2018@gmail.com, Eugene Denson edenson9551@gmail.com

Cheri Roberts
October 7, 2020
Page 2 of 2

where it can pass into waters of the state any substance or material deleterious to fish, plant life, mammals, or bird life, including, but not limited to gasoline and oil, as well as sediment. FGC section 5652 makes it unlawful to deposit in, permit to pass into, or place where it can pass into waters of the state, or to abandon, dispose of, or throw away, within 150 feet of the high water mark of the waters of the state, any garbage, refuse, or waste, among other materials. A person who violates FGC sections 1602, 5650, and 5652 in conjunction with the cultivation or production of cannabis is subject to significant penalties or fines. Specifically, CDFW may impose civil penalties administratively against any person found by CDFW to have violated these FGC sections in connection with the production or cultivation of cannabis following a complaint and, if requested, a hearing.

Other statutes in the FGC that might apply to your activity, include, but not limited to the following sections: 2080 et seq. (species listed as threatened or endangered, or a candidate for listing under the California Endangered Species Act); 1908 (rare native plants); 3511, 4700, 5050, and 5515 (fully protected species); 3503 (bird nests and eggs); 3503.5 (birds of prey); 5901 (fish passage); 5937 (sufficient water for fish); and 5948 (obstruction of stream).

Finally, if you decide to proceed with your project without an Agreement, you must have a copy of this letter and your notification with all attachments available at all times at the work site. Please note this letter is only valid until **January 22, 2024** which is 5 years from the date the Department was required to provide a Draft Agreement.

If you have any questions regarding this letter, please contact Andrew Orahoske, Environmental Scientist at Andrew.orahoske@wildlife.ca.gov.

Sincerely,



Cheri Sanville
Senior Environmental Scientist Supervisor

ec: Steve Breitenstein
Green Road Consulting
steve@greenroadconsulting.com

Andrew Orahoske
California Department of Fish and Wildlife
andrew.orahoske@wildlife.ca.gov



California Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
REGION 1 – NORTHERN REGION
619 Second Street
Eureka, CA 95501
www.wildlife.ca.gov

GAVIN C. NEWSOM, Governor
CHARLTON H. BONHAM, Director



October 7, 2020

Brian Roberts
The Homestead Cannabis Weed Co. LLC
PO Box 244
Blocksburg, CA 95514

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Conserving California's Wildlife Since 1870

LSA AGREEMENT

Agenda Item #3

APN# 217-401-011-000

SP-12237

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Date: December 2, 2020 at 11:43 AM
To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lfeisawesome2018@gmail.com, Eugene Denson edenson9551@gmail.com

Cheri Roberts
October 7, 2020
Page 2 of 2

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If you have any questions regarding this letter, please contact Andrew Orahoske, Environmental Scientist at Andrew.orahoske@wildlife.ca.gov.

Sincerely,



Cheri Sanville
Senior Environmental Scientist Supervisor

ec: Steve Breitenstein
Green Road Consulting
steve@greenroadconsulting.com

Andrew Orahoske
California Department of Fish and Wildlife
andrew.orahoske@wildlife.ca.gov



California Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
REGION 1 – NORTHERN REGION
619 Second Street
Eureka, CA 95501
www.wildlife.ca.gov

GAVIN C. NEWSOM, Governor
CHARLTON H. BONHAM, Director



From: Life IsAwesome lifeisawesome2018@gmail.com 

Subject: Dec 3rd meeting Agenda #3 Homestead Collective

Date: December 2, 2020 at 11:41 AM

To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

Conditions Attachment 1 Responses

Please add this as an attachment to
SP-12237
APN# 217-401-011-000
Agenda Item #3

Condition #12



Humboldt
County...ent.pdf



Kyle S. Wear
Botanical Consultant

3484 Zelia Court
Arcata, CA 95521
(707) 601-1725
kyle_wear@suddenlink.net

Brian Roberts
P.O. Box 244
Blocksburg, CA 95514

RE: Relocation of the Cultivation Area in Pond Setback on APN: 217-401-011

Brian,

The aquatic resources delineation conducted in July identified approximately 368 square feet of the cultivation area within the 100-foot setback of the instream pond. You have indicated the County has required the cultivation area within the setback to be relocated and remediation of the area be developed if necessary.

Based on my observations during the site visit and the photos you have provided, the site does not need any significant remediation. The area has not been graded and the plants are growing in amended native soil. The grow boxes are simply used to delineate square footage and are not filled with soil. Because the soil profile is not disturbed, the natural soil seedbank should provide sufficient natural recruitment of species present before the site was developed and consistent with the species composition of the adjacent grassland.

The follow measures are recommended to restore the site:

- Remove all cultivation related materials after the fall harvest including the boxes and any other materials such as amendments or pesticides. It is not necessary to remove the fence.
- Mulch exposed soil with a thin layer of straw leaving some exposed soil. Too much mulch could prevent seed germination.
- Physically measure from the top of the bank of the pond (not the water level) to the ensure all the cultivation is over 100-feet from the pond. There is error in the base NAIP image and GPS used to estimate the square footage within the buffer.

- Conducted these tasks immediately after fall harvest so the site will not be disturbed once the rainy season begins to facilitate maximum natural revegetation.

Please let me know if you have any questions or need additional information.

Sincerely,



Kyle Wear



Ca State Water Board.pdf







Biologist
wetlan...ort.pdf





From: Life IsAwesome lifeisawesome2018@gmail.com 
Subject: Dec 3rd planning commission meeting Agenda #3 Homestead collective
Date: December 2, 2020 at 11:41 AM
To: Planning Clerk planningclerk@co.humboldt.ca.us, Life IsAwesome lifeisawesome2018@gmail.com, Eugene Denson edenson95511@gmail.com

Conditions Attachment 1 Responses

Please add this as an attachment to
SP-12237
APN# 217-401-011-000
Agenda Item #3

Condition #11

Road work by Hum County public works



11806 Road
Evaluat...ad.pdf