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The *California Regulatory Notice Register* is an official state publication of the Office of Administrative Law containing notices of proposed regulatory actions by state regulatory agencies to adopt, amend or repeal regulations contained in the California Code of Regulations. The effective period of a notice of proposed regulatory action by a state agency in the *California Regulatory Notice Register* shall not exceed one year [Government Code § 11346.4(b)]. It is suggested, therefore, that issues of the *California Regulatory Notice Register* be retained for a minimum of 18 months.

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PROPOSED ACTION ON REGULATIONS

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TITLE 13. CALIFORNIA HIGHWAY PATROL

**AMEND ARTICLE 1, SECTION 1152.3
Explosives Routes and Stopping Places
(CHP-R-2017-04)**

The California Highway Patrol (CHP) proposes to amend regulations in Title 13 of the California Code of Regulations (CCR), Division 2, Chapter 6, Article 1 regarding designated routes for the transportation of explosives by commercial vehicles on highways in the state.

INFORMATIVE DIGEST/POLICY STATEMENT OVERVIEW

Pursuant to Division 14, Transportation of Explosives, commencing with Section 31600 of the California Vehicle Code (CVC), the CHP shall adopt regulations specifying the routes to be used in the transportation of explosives by commercial vehicles on highways. The CVC requires the CHP to keep information current in regulations with maps indicating designated routes. The CHP's field commands conduct annual surveys on the routes and stops for the transportation of explosives to determine if changes are necessary. The CHP's Central Division (CHPCD) identified an error shown on a designated route map for State Route 43 in their survey report. The proposed regulation amendments will update explosives routes by removing 10.7 miles and extending 14.0 miles of currently designated routes specified in Section 1152.3 CCR, Routes — Map 13. These updates will reduce the potential risks associated with the transportation of explosives and enhance public safety in the Bakersfield area.

Proposed amendments received concurrences from the CHPCD, Bakersfield Fire Department, Kern County Fire Department, State Fire Marshal, and California Department of Transportation.

This proposed regulatory action will continue to provide a nonmonetary benefit to the protection of health, safety, and welfare of California's residents, workers, and environment because changes to the application of

the regulation are not substantive, and bring the regulation in conformance with existing statute. Updating designated routes for carriers transporting explosives is clarifying in nature and all are for transportation safety and public health.

During the process of developing these regulations and amendments, the CHP has conducted a search of any similar regulations on this topic and has concluded that these regulations are neither inconsistent nor incompatible with existing federal and state regulations.

PUBLIC COMMENT

Any interested person may submit written comments on the proposed action via facsimile at (916) 322-3154, by electronic mail to cvsregs@chp.ca.gov, or by writing to:

California Highway Patrol
Commercial Vehicle Section
Attention: Dr. Tian-Ting Shih
P.O. Box 942898
Sacramento, CA 94298-0001

Written comments will be accepted until 5:00 p.m., December 26, 2017.

PUBLIC HEARINGS

No public hearing has been scheduled. If any person desires a public hearing, a written request must be received by the CHP, Commercial Vehicle Section (CVS) no later than 15 days prior to the close of the written comment period.

AVAILABILITY OF INFORMATION

The CHP has available for public review an initial statement of reasons for the proposed regulatory action, the information upon which this action is based, and the proposed regulation text in ~~strikeout~~ and underline format. Requests to review or receive copies of this information should be directed to the CHP either at the above address, by facsimile at (916) 322-3154, or by calling the CHP, CVS, at (916) 843-3400. All requests for information should include the following: the title of the rulemaking package, the requester's name, proper mailing address (including city, state, and zip code), and a daytime telephone number in case the information is incomplete or illegible.

The rulemaking file is available for inspection. Interested parties are advised to call CHP, CVS, for an appointment.

All documents regarding the proposed action are available through the CHP's website at <https://www.chp.ca.gov/News-Alerts/Regulatory->

Actions. Any person desiring to obtain a copy of the adopted text and a final statement of reasons may request them at the above-noted address. Copies will also be posted on the CHP website.

CONTACT PERSON

Any inquiries concerning the written materials pertaining to the proposed regulations or the substance of the proposed regulations should be directed to Dr. Tian-Ting Shih or Officer Adam Roha at (916) 843-3400.

ADOPTION OF PROPOSED REGULATIONS

After consideration of public comments, the CHP may adopt the proposal substantially as set forth without further notice. If the proposal is modified prior to adoption and the change is not solely grammatical or substantive in nature, the full text of the resulting regulation, with the changes clearly indicated, will be made available to the public for at least 15 days prior to the date of adoption.

FISCAL IMPACT AND RESULTS OF THE ECONOMIC IMPACT ASSESSMENT

The CHP has made an initial determination that this proposed regulatory action: (1) will have no effect on housing costs; (2) will not impose any new mandate upon local agencies or school districts; (3) will involve no nondiscretionary cost or savings to any local agency, no cost to any local agency or school district for which Government Code (GC) Sections 17500-17630 require reimbursement, no cost or savings to any state agency, nor costs or savings in federal funding to the state; (4) will neither create nor eliminate jobs in the State of California nor result in the elimination of existing businesses or create or expand businesses in the State of California; and (5) will not have a significant statewide adverse economic impact directly affecting businesses including the ability of California businesses to compete with businesses in other states.

Benefits of the Proposed Action: The proposed regulation updating designated routes for carriers transporting explosives will continue to provide benefits, which include a nonmonetary benefit to the protection of public health and safety for residents and workers, and the protection of the environment by providing a regulatory basis for enforcement efforts as they relate to safety compliance ratings.

The regulated community is encouraged to respond during the comment period of this regulatory process if significant impacts are identified.

COST IMPACTS ON REPRESENTATIVE PRIVATE PERSONS OR BUSINESSES

The CHP is not aware of any cost impacts that a representative private person or business would necessarily incur in reasonable compliance with the proposed action.

EFFECT ON SMALL BUSINESSES

The CHP has determined that the proposed regulatory action will not affect small businesses. The action is intended to clarify and update the routes for commercial vehicles transporting explosives on highways. As a result, no small business will be affected by the update.

ALTERNATIVES

In accordance with Section 11346.5(a)(13) GC, the CHP must determine that no reasonable alternative considered by the CHP or otherwise identified and brought to the attention of the CHP, would be more effective in carrying out the purpose for which the action is proposed, would be as effective and less burdensome to affected private persons than the proposed action, or would be more cost-effective to affected private persons and equally effective in implementing the statutory policy or other provision of law. The CHP invites interested parties to present statements or arguments with respect to alternatives to the proposed regulations during the written comment period.

AUTHORITY

This regulatory action is being taken pursuant to Section 31616 CVC.

REFERENCE

This action implements, interprets, or makes specific Sections 31303, 31304, 31601, 31602, 31607, 31611, 31614, and 31616 CVC.

TITLE 23. STATE WATER RESOURCES CONTROL BOARD

DIVISION 3. STATE WATER RESOURCES CONTROL BOARD AND REGIONAL WATER QUALITY CONTROL BOARDS

CHAPTER 3.5. Conservation and the Prevention of Waste and Unreasonable Use

The State Water Resources Control Board (State Water Board or Board) proposes to adopt the proposed reg-

ulation described below after considering all comments, objections, and recommendations regarding the proposed action.

PROPOSED REGULATORY ACTION

The State Water Board proposes to establish California Code of Regulations, title 23, division 3, chapter 3.5 on Conservation and the Prevention of Waste and Unreasonable Use and within this chapter will be a new article, article 2, on Water Conservation. This article is proposed to provide for permanent prohibitions against wasteful water uses. Currently certain water uses are prohibited under an emergency regulation that is set to expire November 25, 2017. The prohibitions that are proposed would be consistent with existing requirements in California Code of Regulations, title 23, division 3, chapter 2, article 22.5, specifically sections 865 and 866 that are expiring November 25, 2017 by operation of law.

AUTHORITY AND REFERENCE

The State Water Board is implementing, interpreting and making specific:

Authority: Section 1058, Water Code.

References: Article X, Section 2, California Constitution; Sections 4080, 4100, 4110, 4150, 4185, and 4735, Civil Code; Sections 102, 104, 105, 275, 350, and 10617, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

PUBLIC WORKSHOP

A public workshop has been scheduled for this proposed action. State Water Board staff will hold a public workshop to provide the public an opportunity to discuss the permanent prohibition of certain wasteful water use practices. Any written or oral comments will be received, added to the record, and considered by the Board. A quorum of Board members may be present; however, no Board action will be taken. The public workshop will follow the Board meeting on:

Tuesday, November 21, 2017

Joe Serna Jr. — CalEPA Headquarters Bldg.
Coastal Hearing Room
1001 I Street, Second Floor
Sacramento, CA 95814

Please consult the agenda for the meeting, which will be available at least 10 days before **November 21, 2017**, to determine the exact day and time this item will be considered. A public hearing has not been scheduled. Any interested person can submit a written request for a hearing to be held. The written request for a hearing

must be submitted at least 15 days prior to the close of the written public comment period.

WRITTEN COMMENT PERIOD

Any interested person, or his or her authorized representative, may submit written comments relevant to the proposed regulatory action to the State Water Board. Written comments must be received no later than **12:00 noon on Tuesday, December 26, 2017**. The State Water Board will only consider comments received by that time.

Please send comment letters to Ms. Jeanine Townsend, Clerk to the Board, by email at commentletters@waterboards.ca.gov, (916) 341-5620 (fax), or by mail or hand delivery addressed to:

Jeanine Townsend, Clerk to the Board
State Water Resources Control Board
P.O. Box 100, Sacramento, CA 95812-2000
(by mail)
1001 I Street, 24th Floor, Sacramento, CA 95814
(by hand delivery)

Please also indicate in the subject line, “**Comment Letter — Prohibiting Wasteful Water Use Practices.**” Hand and special deliveries should also be addressed to Ms. Townsend at the address above. Couriers delivering comments must check in with lobby security and have them contact Ms. Townsend. Due to the limitations of the email system, emails larger than 15 megabytes are rejected and cannot be delivered or received by the State Water Board. We request that comments larger than 15 megabytes be submitted under separate emails.

To be added to the mailing list for this rulemaking and to receive notification of updates of this rulemaking, you may subscribe to the listserv for “**Water Conservation Regulations**” by going to http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml (look under “General Interests”, select “Water Conservation Regulations”).

WEBCAST INFORMATION

Video and audio broadcasts of the public workshop will be available via the internet and can be accessed at: <https://video.calepa.ca.gov/>.

PARKING AND ACCESSIBILITY

For directions to the Joe Serna, Jr. (CalEPA) Building and public parking information, please refer to the map on the State Water Board website: <http://www.calepa.ca.gov/headquarters-sacramento/location/>.

SPECIAL ACCOMMODATION REQUEST

Consistent with California Government Code section 7296.2, special accommodation or language needs may be provided for any of the following:

- An interpreter to be available at the hearing;
- Documents made available in an alternate format or another language;
- A disability-related reasonable accommodation.

The CalEPA Building is accessible to persons with disabilities. To request these special accommodations or language needs, please contact 916 341-5254 as soon as possible, but no later than 10 business days before the scheduled Board hearing. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

Consecuente con la sección 7296.2 del Código de Gobierno de California, una acomodación especial o necesidades lingüísticas pueden ser suministradas para cualquiera de los siguientes:

- Un intérprete que esté disponible en la audiencia.
- Documentos disponibles en un formato alterno u otro idioma.
- Una acomodación razonable relacionados con una incapacidad.

Para solicitar estas comodidades especiales o necesidades de otro idioma, por favor llame a 916 341-5254 lo más pronto posible, pero no menos de 10 días de trabajo antes del día programado para la audiencia del Consejo. TTY/TDD/Personas que necesiten este servicio pueden marcar el 711 para el Servicio de Retransmisión de Mensajes de California.

FUTURE NOTICE

The State Water Board public workshop will be at the times and places noted above. Any change in the date, time, and place of the public workshop will be noticed on the webpage: http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/index.shtml

CALIFORNIA ENVIRONMENTAL QUALITY ACT

This is to advise that the State Water Board is proposing to adopt the **Wasteful Water Use Regulation**. Pursuant to CEQA Guidelines section 15063, the State Water Board prepared an Initial Study to provide a preliminary analysis of the proposed action to determine whether a Negative Declaration or Environmental Impact Report should be prepared. The proposed regulation will have a less than significant impact on the envi-

ronment. Because there is no substantial evidence that the project or any of its aspects may cause a significant effect on the environment, the Board prepared a Negative Declaration. The draft Initial Study/Negative Declaration is available for review at the CalEPA library, located at 1001 I Street, Sacramento, CA 95814, and on the Water Board's website

(www.waterboards.ca.gov/water_issues/programs/conservation_portal/regulation.shtml).

INFORMATIVE DIGEST/ POLICY STATEMENT OVERVIEW

a) Summary of existing laws and regulations

The proposed regulation would establish in California Code of Regulations, title 23, division 3, a new chapter, chapter 3.5, on Conservation and the Prevention of Waste and Unreasonable Use, and within this chapter a new article, article 2, on Water Conservation. This article is proposed to permanently prohibit certain wasteful water uses. Currently, those wasteful water uses are prohibited under an emergency regulation that is set to expire November 25, 2017.

References: Article X, Section 2, California Constitution; Sections 4080, 4100, 4110, 4150, 4185, and 4735, Civil Code; Section 8627.7, Government Code; Sections 102, 104, 105, 275, 350, and 10617, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463.

Specifically, the proposed regulation would prohibit all Californians from engaging in certain wasteful water use practices, would penalize particular entities that violate existing laws, and would require specific actions of hotels and motels.

The Prohibitions (i.e., Californians shall not . . .)

- Apply water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures.
- Use a hose that dispenses water to wash a motor vehicle, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.
- Apply potable water directly to driveways and sidewalks.
- Use potable water in an ornamental fountain or other decorative water feature, except where the water is part of a recirculating system.
- Apply water to irrigate turf and ornamental landscapes during and within 48 hours after measurable rainfall of at least one-tenth of one inch of rain.

- Serve drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased.
- Irrigate turf on public street medians or publicly owned or maintained landscaped areas between the street and sidewalk, except where the turf serves a community or neighborhood function.

Penalties for Particular Entities:

- Any homeowners’ association, community service organization, or any similar entity violating section 4735 of the Civil Code is an infraction punishable by a fine up to \$500/day for each day the violation occurs.
- Any city, county, or city and county violating section 8627.7 of the Government Code is an infraction punishable by a fine up to \$500/day for each day the violation occurs.

The Requirement for Hotels and Motels:

- Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

b) Comparable Federal Laws and Regulation

The State Water Board has determined that there are no comparable federal laws or regulations related to the proposed regulation on prohibiting certain wasteful water use practices.

c) Policy Overview, Objectives and Benefits of the Proposed Regulatory Action

Article 10 of the California Constitution, section 2, states:

that because of the conditions prevailing in this State the general welfare requires that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, and that the waste or unreasonable use or unreasonable method of use of water be prevented, and that the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and for the public welfare.

The State Water Board has determined that the proposed regulation will safeguard urban water supplies, minimize the potential for waste and unreasonable use of water, and realize the directives of Executive Orders B-37-16 and B-40-17. Each of the specific prohibitions on water uses and other end user requirements are necessary to promote water conservation to maintain

adequate supplies, which cannot be done if water is being used in a wasteful or unreasonable manner. Between June 2014 and April 2017, the emergency regulations catalyzed water use reductions conserving over 3.5 million acre-feet. Should the proposed regulation be adopted, continued water savings would be achieved.

In general, water conservation has many benefits, including conserving water for source-watershed stream flows; conserving energy, as nearly 20 percent of California’s electricity use is embedded in moving and consuming water; generating additional economic activity, such as investments in drought-tolerant landscaping; increased water quality in receiving waters due to lower runoff volume; increased awareness and a shared sense of responsibility among urban water users; reduced potential for severe economic disruption due to future water shortages; and more equitable management of water supplies.

Though the potential overall water savings from the proposed regulation are likely to be relatively minor, the water savings associated with the proposed regulation would nonetheless realize or promote a number of the aforementioned benefits. Each of these benefits is discussed below. The proposed regulation would not by itself necessarily achieve a significant level or amount of these benefits, relative to a comprehensive suite of conservation actions like water pricing changes or mandatory supply reductions; but, by prohibiting some of the more wasteful and discretionary water use practices, it can reasonably be expected to have a positive impact on each of the areas described below.

Protecting watersheds

Water efficiency can help stretch water supplies and contribute to the protection of aquatic environments. Water efficiency can preserve stream flows by preventing or delaying the need to build additional infrastructure and conserve (and even restore) flows in already-exploited watersheds. In *Water Efficiency for In-stream Flow: Making the Link in Practice*, the Alliance for Water Efficiency (AWE) describes how municipal water efficiency programs contribute to a more natural flow regime in California’s Russian River. To create better habitat conditions for Coho salmon and steelhead in the summer and Chinook salmon in the fall, local water agencies invested in a number of water conservation strategies, including public education campaigns, cash-for-grass incentives, and rainwater catchment and greywater system rebates (AWE 2011).

Other documented examples of how urban water conservation has helped protect in-stream flows include, in California, the work of the Sacramento Water Forum to conserve American River flows (SWF 2017), and, outside of California, the work of metropolitan Seattle agencies to conserve Cedar and Deschutes River flows

(AWE 2011). These examples demonstrate that water conservation can directly protect watersheds by reducing consumption and dedicating those savings to in-stream flows.

Conserving energy

The proposed regulation would reduce GHG emissions by reducing the amount of energy needed to make water available for urban uses. A considerable amount of energy is embedded in California's water infrastructure. Over 19% of California's energy is used to supply, treat, and consume water and then to collect and treat wastewater (CEC 2006). Of that, about 40% is consumed by the water sector itself — primarily for supply and conveyance but also for water distribution, water treatment, and wastewater collection and treatment; the remaining 60 percent is attributable to the electricity used by customers as water is consumed — primarily for heating and pumping (Park and Croyle 2012). The energy intensity of a particular quantity of water depends on a number of factors, most importantly how (e.g., indoors or outdoors) and where (e.g., San Francisco or Los Angeles) it's consumed.

The corollary is that the energy savings associated with conserving any given quantity of water will similarly depend on where and how it's used. Water conservation in Southern California will generally yield more energy savings from pumping and treating water than conservation efforts in Northern California, where water requires less energy to travel. It is also true that indoor water use generally offers the greatest energy savings because indoor uses require wastewater collection, treatment, and discharge. Furthermore, indoor use of hot water is particularly energy intensive due to the energy required for hot water heaters. Energy savings associated with conserving water outdoors would only be associated with reduced supply, conveyance, treatment and distribution (Elkind 2011). The proposed regulation would primarily result in reduced outdoor use, and any related energy savings and reductions in GHG emissions would come from the prohibition of some of the more wasteful outdoor water use practices.

Approximately 7.2% of the state's overall electricity use is embedded in the supply, conveyance, treatment and distribution of water (Park and Croyle 2012). When water is conserved outdoors, the energy inputs embedded in those processes are avoided — and those avoided energy inputs vary considerably depending on where the water comes from and where it goes.

To better understand the geographically variable energy intensities of water in California, the California Public Utilities Commission (CPUC) developed the Water–Energy calculator; it computes average outdoor energy intensities for each of California's hydrologic regions (CPUC 2017). Using those outdoor water use

intensity values, the UC Davis Center for Water–Energy efficiency calculated the energy savings associated with the volume of water conserved during a few months of the declared drought emergency. The electricity savings from statewide water conservation totaled 460 GWh, the equivalent of taking about 50,000 cars off the road for a year (UC Davis 2017).

Generating additional economic activity

Several of the wasteful water uses prohibited by the proposed regulation (e.g., the prohibitions affecting runoff) may result in the more efficient irrigation of urban landscapes. Reducing outdoor water waste could generate additional economic activity, such as investments in water efficient landscaping. Substantial expenditures to use water more efficiently outdoors may benefit the landscaping sector, perhaps by helping to catalyze a new, drought oriented sub-sector of the landscaping services sector, as well as, over time, likely reducing prices for this type of amenity. Furthermore, reducing the amount of water used for landscaping may direct those savings to other economically beneficial uses (Moss et al. 2015). It is not expected that the proposed regulation will have a significant impact on shifting landscapes to more drought tolerant plantings, but landscape companies may see increased calls for irrigation system upgrades, or changed landscape topographies, to avoid runoff as prohibited by the proposed regulation.

Improved water quality

Dry-weather discharges contain pollutants that compromise aquatic ecosystems. Dry-weather urban runoff can be a source of pesticides, nutrients, bacteria and metals. For arid and semi-arid streams dominated by urban runoff and effluent, pollutants conveyed during the dry-season can represent a substantial portion of total annual loading. Recent studies have shown that dry-weather loading of nutrients, pesticides, and other constituents can be a significant contributor of pollutants to receiving waters (Pitton et al. 2016, Stein and Ackerman 2007, Stein and Tiefenthaler 2005, McPherson et al. 2002, 2005). For example, dry-weather flows contribute more than 50 percent of the annual pollutant loads of some metals in Los Angeles basin watersheds (Stein and Ackerman 2007). A five-year study of eight California sites found that the majority (76 percent) of annual microbial loading occurred during the dry season (Reano et al. 2015).

Few studies have examined how reduced outdoor water use affects the water quality of runoff. However, an Orange County residential runoff reduction study found that increased outdoor water efficiency reduced the amount of runoff (by 50 percent at one site) while the concentration of pollutants such as nutrients, organophosphate pesticides, trace elements and bacte-

ria remained the same (IRWD 2004). In essence, the IRWD study suggests that, with the reduction of dry-weather runoff, pollutant loading may decrease. The proposed regulation may benefit water quality by reducing the amount of runoff and, by extension, total pollutant loading in the dry season.

Increased conservation awareness

The proposed regulation would define ten water use practices as wasteful and unreasonable per Article X, section 2 of the California constitution, potentially compelling those urban water agencies that have not already prohibited the aforementioned practices to now do so. Depending on the degree of local education and enforcement, urban water users may place an even greater value on this vital resource and adjust their behavior accordingly. Numerous studies have shown that defining injunctive norms (i.e., norms that govern how a person should behave) can catalyze even greater conservation rates (Steg et al. 2014). By defining the addressed water use practices as wasteful and unreasonable, the proposed regulation assigns judgment. Coupled with the descriptive normative messaging typically employed in water conservation campaigns (e.g., notices comparing one household’s use to other homes in the neighborhood), a strong injunctive message (e.g., watering driveways is wasteful) may instill an even greater conservation ethic.

Reduced potential for severe economic disruption

Wasteful and unreasonable uses of water threaten the California economy, now more than ever. Looking

ahead, the co-occurring warm and dry conditions that gave rise to the recent drought are not “exceptional” but rather very probable (Diffenbaugh et al. 2015). Eliminating waste and unreasonable use of water safeguards California’s economy, ensuring our most vulnerable sectors are more resilient to projected climate change impacts. Permanently prohibiting some of the most wasteful and discretionary water use practices, and increasing the visibility of water conservation and efficiency can reduce the potential for economic disruption in multiple sectors, particularly the agricultural and electricity sectors.

Agriculture: The 2012–2016 drought reduced the amount of surface water available to farmers, like all other sectors. Despite offsetting much of the surface water reductions with increased groundwater pumping, the drought impacted California’s agricultural sector. Table 1 summarizes the results of the 2014–2016 economic impact reports the UC Davis Center for Watershed Sciences generated for the California Department of Food and Agriculture.

As shown in Table 1, groundwater pumping largely offset the impacts to California’s agricultural sector. However, the shortages nonetheless resulted in substantial costs (due to idled land, lost revenue, increased pumping, etc.), peaking in 2015 with an estimated loss of \$2.7 billion and 21,000 jobs (Howitt et al., 2015). Unaccounted for in the UC Davis assessment is the cost of massive and unsustainable groundwater pumping.

	2014	2015	2016
Surface water reduction	6.6 MAF*	8.7 MAF	2.6 MAF
Groundwater pumping	5.1 MAF	6.0 MAF	1.9 MAF
Net shortage	1.5 MAF	2.7 MAF	0.7 MAF
Total economic cost	\$2.2 billion	\$2.7 billion	\$603 million
Total job losses	17,000	21,000	4,700

Table 1: Summary of agricultural impacts of the California drought (2014-2016)

While continued groundwater overdraft temporarily benefits farmers, in the long run it too is costly, requiring farmers and surrounding communities to dig deeper wells, find alternative sources of water and repair infrastructure damaged by subsidence (Cooley et al. 2015).

Electricity: The Pacific Institute examined the effects of drought on California’s hydroelectricity generation. In an average year, hydropower provides 18 percent of the state’s electricity needs; during the drought, it averaged 10.5 percent. Through September 2016, hydroelectricity production dropped by 66,000 GWh. The replacement sources of energy were both more expensive and more polluting, costing ratepayers \$2.45 billion and

increasing power plant emissions by 10 percent (Gleick 2017).

Economic disruption summary: Using water reasonably and efficiently safeguards California’s economy by protecting our most vulnerable sectors, particularly the agricultural and electricity sectors. Impacts to these sectors could ripple throughout the economy, as was the case in Australia during the millennium drought. At its peak, the “Big Dry” was estimated to have reduced Australia’s GDP by 1.6 percent. A 1.6 percent hit to California GDP would reduce state output by more than \$30 billion (Moss et al. 2015). Making conservation a

California way of life reduces the potential for such severe economic disruption.

More Equitable Management of Water Supplies

A 2017 Pacific Institute report analyzed the impact of the 2012–2016 drought on California’s most vulnerable communities. The report found that disadvantaged communities were gravely affected. Supply shortages and rising costs affected people’s access to safe, affordable water in their homes. Additionally, declines in salmon populations, exacerbated by the drought, prevented some California Native American tribes from obtaining fish that are an essential part of their diet and an integral part of their spiritual and cultural traditions. Inequitable access to water in California existed before the drought began in 2012, but lack of water made the outcome of these inequities more severe (Feinstein et al., 2017). Making conservation a California way of life reduces the potential that future droughts will as severely impact disadvantaged communities.

d) An Evaluation of Inconsistency or Incompatibility with Existing State Regulations

The State Water Board evaluated whether the proposed regulation is inconsistent or incompatible with existing regulations. The proposed regulation is not inconsistent or incompatible with existing state regulations.

Absent the proposed regulation, there is no permanent statewide prohibition on specific water uses to promote conservation and no general regulatory identification of urban water uses that are considered a waste or unreasonable use. (Compare Cal. Code Regs., tit. 23, § 862.) The State Water Board’s May 2015 emergency regulation constituted the first statewide directive to urban water users to undertake specific actions to respond to the drought emergency. The State Water Board extended and amended the regulation since May 2015 to respond to updated conditions as appropriate. Consequently, the proposed regulation is consistent and compatible with existing emergency regulations on this subject.

The 2014–2015 drought–related actions and response activities culminated in Executive Orders (EO) B–37–16 in May 2016 and B–40–17 in April 2017. The EOs built on the temporary emergency conservation regulations and tasked State agencies with establishing a long–term framework for water conservation and drought planning. The actions directed in the EOs are organized around four primary objectives: (1) using water more wisely, (2) eliminating water waste, (3) strengthening local drought resilience, and (4) improving agricultural water use efficiency and drought planning.

To eliminate water waste, the State Water Board has been tasked with permanently prohibiting practices that waste water, such as: Hosing off sidewalks, driveways and other hardscapes; Washing automobiles with hoses not equipped with a shut–off nozzle; Using non–recirculated water in a fountain or other decorative water feature; Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and Irrigating ornamental turf on public street medians.

While the severity of the drought has lessened in California after winter rains and snow, significant impacts remain. For the fifth consecutive year, dry conditions persist in areas of the state, with limited drinking water supplies in some communities, diminished water for agricultural production and environmental habitat, and severely depleted groundwater basins. Furthermore, California droughts will be more frequent and persistent, as warmer winter temperatures driven by climate change reduce water held in the Sierra Nevada snowpack and result in drier soil conditions.

Recognizing these new conditions, permanent regulations are needed to use water more wisely and efficiently, and prepare for more frequent, persistent periods of limited supply in all communities and for all water uses, including fish, wildlife, and their habitat needs. The proposed regulation is consistent and compatible with Executive Orders B–37–16 in May 2016 and B–40–17 in April 2017.

Additionally, homeowners’ associations for common interest developments currently are statutorily barred from prohibiting low–water use landscaping or artificial turf and from fining residents who reduce their outdoor irrigation during drought emergencies, as are cities, counties, or cities and counties. (Civ. Code, § 4735; see also *id.*, §§ 4080, 4100, 4110, 4150, and 4185; Gov. Code, § 8627.7.) The Governor’s April 25, 2014 Executive Order similarly declared “any provision of the governing document, architectural or landscaping guidelines, or policies of a common interest development . . . void and unenforceable to the extent it has the effect of prohibiting compliance with the water–saving measures contained in this directive, or any conservation measure adopted by a public agency or private water company. . . .” (Proclamation of a Continued State of Emergency, April 25, 2014, Ordering ¶ 4.) The proposed regulation neither differs from nor conflicts with an existing comparable federal statute or regulation.

MANDATED BY FEDERAL LAW OR
REGULATIONS
(Gov. Code, §§ 11346.2, subd. (c))

The proposed regulatory action is not identical to previously adopted or amended federal regulations.

LOCAL MANDATE

This proposal does not impose a mandate on local agencies or school districts, or a mandate which requires reimbursement pursuant to part 7 (commencing with section 17500) of division 4 of the Government Code.

NON-MAJOR REGULATION: RESULTS OF THE
ECONOMIC IMPACT ANALYSIS

The Impacts

By prohibiting wasteful water use practices, the proposed regulation will conserve water. Water conservation has many benefits (see, Benefits section l.c. supra), but it also has consequences. Declining water sales translate to declining utility revenues, complicating efforts to continue conservation programs while covering the costs of water treatment and delivery as well as infrastructure repair and replacement (AWE 2014). To recuperate the revenue lost as customers conserve, utilities must adjust rates. The State Water Board estimates that the proposed regulation would result in annual statewide savings of 12,489 AF. Assuming these savings would be distributed in proportion to the population served by urban water suppliers, individual urban water suppliers would incur minor utility net revenue losses.

There are two primary reasons why the proposed regulation is unlikely to lead to major statewide costs. First,

through existing permits and policies, many of the state's urban areas already address the most wasteful of the to-be-prohibited practices (i.e., those practices pertaining to outdoor use). Secondly, the proposed regulation is unlikely to catalyze substantial water savings, as only prohibiting wasteful uses has been shown to conserve relatively little compared to other conservation strategies.

Type-of-use-restrictions (i.e., prohibitions), without accompanying changes in pricing, achieve modest reductions (Dixon and Moore 1996, Olmstead and Stavins 2009, Mini 2015, Manago and Hogue 2017). For example, when the Los Angeles Department of Water and Power (LADWP) instituted mandatory outdoor water restrictions in 2008, the rate of outdoor water use declined 6 percent compared to an averaged 2001–2007 baseline; when LADWP additionally raised rates, the rate of outdoor use declined by an average of 35 percent between 2009 and 2014 (Manago and Hogue 2017).

Water demand tends to decrease as prices increase. Rates can be strategically used to influence demand, particularly outdoor residential demand, which is more elastic (i.e., more responsive to changes in price) than residential indoor demand (Epsey and Shaw 1997, Dalhusien 2003, Olmstead 2007, Baerenklau et al. 2013). The proposed regulation would only prohibit certain wasteful water use practices. Because it would not also require water agencies to change rates in a manner to incentivize the mandated conservation practices, the analysis assumes the prohibitions themselves will not lead to significant savings.

The State Water Board assumes that the proposed regulation would result in savings commensurate with the savings attributable to the prohibitions under the emergency conservation regulations. We estimate that 1 percent of the June 2014 to April 2017 savings (12,498 acre-feet per year (AF/yr) are due to the prohibitions. See Table 2.

<i>Hydrologic Region</i>	<i>AF Saved from June 2014 to April 2017</i>	<i>AF Saved due to prohibitions</i>	<i>Annual AF Savings due to prohibitions</i>
	A	B	C
Central Coast	131,150	1,312	463
Colorado River	115,850	1,158	409
North Coast	27,905	279	98
North Lahontan	8,504	85	30
Sacramento River	509,086	5,091	1,795
San Francisco Bay	582,310	5,823	2,054
San Joaquin River	238,309	2,383	840
South Coast	1,538,675	15,387	5,426
South Lahontan	84,976	850	300
Tulare Lake	304,592	3,046	1,074
Total	3,541,357	35,414	12,489

Table 2: Statewide Water Conservation by hydrologic region (June 2014-April 2017)

To estimate the water savings, the Board used its Urban Water Supplier Reporting database. In July 2014, the State Water Board first adopted drought emergency conservation regulations. Among other actions, the emergency regulations required urban water suppliers to submit to the Board monthly reports including information about current and 2013 (baseline) monthly production volumes. Comparing current production data to the baseline enables the Board to track water savings over time.

The State Water Board has calculated cumulative water savings and monthly water savings every month since this type of water use reporting became required. The Board’s monthly calculation indicates how much water suppliers have conserved since the emergency regulations were first adopted in June 2014. Column A of Table 2 shows how much water Californians saved in each hydrologic region between June 2014 and April 2017 (a 2.8-year period). For reasons described in subsequent paragraphs, the State Water Board attributes 1% of those savings to prohibitions against wasteful water uses.¹ Column B shows the cumulative savings due to the prohibitions (A*1 %); column C, the annually averaged savings over the 2.8-year period.

The total reported savings from 2014–2017 (i.e., the 3.5 million AF) reflect not only the prohibitions (required by the emergency conservation regulations) but also the 2014 drought proclamation and the 2015 mandate. The 2014 proclamation called on Californians to voluntarily conserve water, with a goal of reducing statewide urban water use by 20 percent. Between April 2014 and April 2015, statewide conservation efforts reached 9 percent, based on water use data reported to the Board. With drought conditions worsening in 2015, on April 2, 2015, Governor Brown issued Executive Order B–29–15, mandating, among other things, that the State Water Board adopt regulations that would lead to Californians reducing statewide potable urban water use by 25 percent. When the Governor’s mandate went into effect, Californians responded immediately, reducing water use by 23.9 percent between June 2015 and June 2016. The State Water Board assumes the voluntary goal and the mandatory reductions resulted in most of the total water savings, and that the prohibitions alone resulted in a much smaller portion.

The total reported savings additionally reflect the impact of pre-existing policies. California became the first state to adopt a water use efficiency target with the passage of SB X7–7 in 2009. SB X7–7 mandated the state achieve a 20 percent reduction in urban per capita use by 2020. The reduction goal is also known as “20x2020.” SB X7–7 directed water suppliers to develop individual targets for water use based on a historic

¹Along with the reporting requirements, the June 2014 emergency conservation regulations also prohibited certain wasteful and unreasonable uses of water (the same uses that would be prohibited by the proposed regulation).

per capita baseline. The savings observed between June 2014 and April 2017 additionally reflect the past and on-going work of water agencies to reduce urban water use 20 percent against that baseline by 2020.

The State Water Board also considered the role of Urban Water Management Plans (UWMPs, or Plans) in spurring water savings. The Urban Water Management Planning Act requires urban water suppliers to prepare and adopt a Plan, and to update it at least once every five years. The Plans provide a framework for long term water planning and must contain information about: water deliveries and uses; water supply sources; demand management measures; and water shortage contingency planning. The contingency analysis must include information about “mandatory prohibitions against specific water use practices. . . .” (DWR 2016).

Within the UWMPs, mandatory prohibitions vary depending on what stage of water shortage has been declared. Typically, suppliers will include between three and five stages in a water shortage contingency analysis, with each subsequent stage reflecting decreasing water supplies (DWR 2016). Stages are defined at the urban supplier’s discretion: they can be defined quantitatively (e.g., Stage 1 represents a 10% supply reduction) or qualitatively (e.g., a stage 1 represents a “mild water shortage”). The higher the stage, the more stringent the prohibitions will be. See Table 3 for a hypothetical example.

During the recent and unprecedented California drought, urban water suppliers invoked water shortage contingency plan stages (WSCP) requiring significant conservation measures (as reported in the Urban Water Supplier Reporting database). For many utilities, later-stage prohibitions are considerably more restrictive than those required by the proposed regulation, sug-

gesting that any savings due to the prohibitions required via the emergency conservation regulations would be small relative to those required via later-stage WSCPs.

Stage		Example Prohibitions
0	Normal	Application of potable water to outdoor landscapes that causes runoff.
1	Moderate	Hosing of hardscape surfaces, except for health and safety needs.
2	Significant	Outdoor watering more than 3 days per week.
3	Severe	Outdoor watering more than 2 days per week.
4	Critical	Outdoor irrigation.

Table 3: Hypothetical example of the various stages of water shortage contingency plans.

Finally, the State Water Board based its assumption that 1 percent of the total reported savings can be attributed to the prohibitions on an examination of changes to outdoor winter water use. The Board examined outdoor winter water use because, according to the results of an analysis the Board completed (see Sample of UWMPs sub-section in the 399 supplement), only 16 of the 40 randomly sampled UWMPs included the prohibition restricting irrigation during and within 48 hours after measurable rainfall (the fifth prohibition in Table 4). Looking at the relatively uncommon no-irrigating-when-it’s-raining prohibition provided an opportunity to distinguish the influence of the state-mandated prohibitions from those attributable to locally-driven drought responses and policy choices.

	The application of water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property.....	The use of a hose that dispenses water to wash a motor vehicle, except where the hose is fitted with a shut-off nozzle.	The application of potable water to hardscapes.	The use of potable water in an ornamental fountain unless with a recirculating system	The application of water to irrigate turf and ornamental landscapes during and within 48 hours after measurable rainfall..	The serving of drinking water other than upon request in eating or drinking establishments	The irrigation of turf on public street medians...	Hotels and motels must provide guests with the option of having towels and linens laundered, and prominently display this option.
Prohibition #	1	2	3	4	5	6	7*	8
% of suppliers w/ equivalent prohibitions	95%	98%	98%	88%	40%	80%	18%	65%

Table 4: Percentage of sampled suppliers with Plans including equivalent prohibitions.

*Even fewer suppliers included prohibition 7 (irrigation of turf on public medians...) in Plans.

Analyzing its impact would also provide an opportunity to distinguish the influence of the state-mandated prohibitions from those attributable to locally-driven drought responses and policy choices. However, the State Water Board determined estimating its impact would be impossible given data constraints.

To analyze the impact of the fifth prohibition, the State Water Board compared pre-drought winter water use (2013) to winter water use during the drought (2014, 2015, and 2016). The Board first estimated what percentage of the reported winter savings occurred outdoors. The State Water Board based the estimate of what percentage of the water savings occurred outdoors in part on a 2003 Pacific Institute document, Waste Not, Want Not: The Potential for Urban Water Conservation in California.

According to the Pacific Institute estimates, an average of 4 percent of California winter residential water use occurs outdoors. The State Water Board assumed proportionate winter water savings, i.e. that 4 percent of the water conserved during the winter months is due to outdoor water conservation measures. The Board then compared the gallons saved outdoors (Column D in Table 5) to the 2013 pre-drought winter baseline (Column A), which indicated that winter water savings represented, respectively, 0.36 percent, 0.72 percent, and 0.88 percent of the 2013 winter baselines (Column E).

Winter ¹ year	2013 winter baseline ² (AF)	Winter production (AF)	AF saved	AF saved outdoors	% of 2013 baseline
	A	B	C (A-B)	D (C*4%)	E $\left(\frac{D}{A}\right)$ *100)
14/15	1.6 million	1.46 million	144 thousand	5.8 thousand	0.36%
15/16	1.58 million	1.29 million	288 thousand	11.5 thousand	0.72%
16/17	1.57 million	1.23 million	347 thousand	13.8 thousand	0.88%

¹Winter is December through March. ² Since reporting began in June 2014, urban water suppliers have refined their 2013 baseline estimates. Hence, the 2013 baseline varies.

Table 5: Winter Water Savings due to the no-irrigating-when-it's-raining prohibition

To distinguish the influence of the state-mandated prohibitions, the State Water Board assumed 1) that prohibitions 1-4, 6 and 8 will result in de minimis new savings, since most urban water suppliers already have equivalent prohibitions in place (See Table 5); 2) the percent of the total estimated savings due to the no-irrigating-when-it's raining prohibition is equal to the percent of outdoor winter savings relative to the 2013 winter baseline; and 3) that, because no-irrigating-when-it's raining is a relatively rare prohibition, its impact is a reasonable proxy for estimating the percent estimated savings due to the prohibitions en masse. To account for additional savings potentially attributable to the other prohibitions, the State Water Board conservatively rounded the 0.65% average (i.e., $(0.36\% + 0.72\% + 0.88\%)/3$) up to an even 1%.

To summarize, the State Water Board assumes that comparing the 2013 winter water use baseline to outdoor winter water savings during the drought is the best approximation of the effects of the prohibitions en masse for the following reasons:

- The no-irrigating-when-it's raining prohibition will save the most water during the months of December-March, and is a relatively uncommon local prohibition (See Table 4).
- Californians embraced other wintertime outdoor conservation measures, especially during the historic drought. Measures included not irrigating at all during the winter months. Inasmuch, attributing winter-time savings to the no-irrigating-when-it's raining prohibition is likely a conservative over-estimate of the prohibition's impact. Likewise, our estimate of the total volume save overestimates the impact of the prohibitions in general.

- The impact of the prohibitions is relatively small given the influence of preexisting policies in place during the analyzed period, such as UWMPs, SBX7-7, the 2014 proclamation calling on Californians to voluntarily reduce water use by 20 percent, and the 2015 mandatory water use reductions.

The State Water Board, based on the best available data and studies, conservatively estimated that 1 percent of the cumulative statewide water savings, averaged over a 2.8 year period during the drought, (totaling 12,489 AF/yr) may be attributable to all of the prohibitions mandated by the drought emergency conservation regulations. The Board assumes that the proposed regulation would result in commensurate annual savings.

The Economic Costs

Having estimated the annual average savings due to the prohibitions, the Board analyzed the economic impact of the proposed regulation. The following para-

graphs summarize the economic costs. The State Water Board estimates the proposed regulation, over its lifetime, will have statewide economic (not fiscal) direct costs totaling \$15,966,396. Looking at costs over the proposed regulation’s “lifetime” requires defining the lifetime. The State Water Board assumed a 20–year lifetime and assigned a yearly discount rate of 0.5 percent.

To calculate the present value of the 20–year stream, the State Water Board summed the annual present values, assumed to decline by 0.5 percent per year. Table 6 shows the first five years of the 20–year horizon. The State Water Board estimates that annual costs will become and remain \$0 starting in Year 3.

Costs over a 20-Year Lifetime for BUSINESSES AND INDIVIDUALS					
Real Interest Rate, 20-year, i	0.50%				
First Year of Time Horizon, January 1	2018				
Last Year of Time Horizon, January 1	2038				
Year, Position in the Time Horizon	Year 1	Year 2	Year 3	Year 4	Year 5
Year, Calendar, t	2018	2019	2020	2021	2022
Discount Factor = $1 / (1 + i)^{(t - 2018)}$	1.000	0.995	0.990	0.985	0.980
Economic Direct Cost of Private Suppliers and Customers					
Year, Position in the Time Horizon	Year 1	Year 2	Year 3	Year 4	Year 5
Costs, Economic (not Fiscal) 2015 \$	2,313,022	13,721,641	0	0	0
Present Value, each year	2,313,022	13,652,374	0	0	0
Sum of Present Values (for Direct Economic Costs)	15,966,396				

Table 6: Lifetime economic costs of the proposed regulation

The costs change in the first two years; thereafter, the State Water Board assumes they remain constant, in real terms. Cells in Table 6 show the direct economic costs for Year 1, Year 2 and Year 3. In the first year (Year 1), the Board assumes the following:

- Californians conserve water due to the proposed regulation and these water savings cause water suppliers to lose revenue. Gross revenue loss to **private** suppliers = total supplier revenue losses * 15%, as the Water Board assumes 15% of all urban water suppliers are private.
- The suppliers absorb this loss in the first year; in other words, they do not pass on lost revenue costs to customers in the first year.
- Customers and private suppliers purchase nozzles.
- Urban suppliers pass on nozzle costs to customers as a one–time surcharge.

In the second year (Year 2), the Board assumes the following:

- As a one–time surcharge to customers, the urban suppliers pass on the revenue loss costs they incurred in Year 1.
- By Year 2, urban suppliers will have permanently adjusted fixed service charges so that they do not lose revenue as customers continue to conserve. Using less water, customers would not pay more.

The Economic Benefits

The most significant economic benefit of the proposed regulation is its contribution to California’s fu-

ture water security. Robustly estimating the statewide value of this contribution would be wholly speculative based on existing data and studies. This proposed regulation defines specific water uses as wasteful and unreasonable, increasing conservation, which, in turn, increases drought resilience; it also imposes penalties on HOAs and cities when they do not comply with existing law.

In general, the State Water Board perceives several categories of potential benefits, including increased streams flows, decreased energy use, increased activities in drought–based industries, increased water quality, increased awareness about water waste, reduced probability of severe economic disruptions in drought, and more equitable management of water. In addition, the Board expects potential benefits to small businesses such as restaurants (saving water and energy by washing fewer glasses), landscapers (increased demand for irrigation design, installation, and management), and small and large hotels & motels (saving water and energy by washing less linen). These benefits are unlikely to significantly impact the state’s economy.

To complete the economic impact analysis, the State Water Board considered two categories of probable benefits, where the Board could base its estimates on available data. Those categories are (1) Variable Cost Savings; and (2) Offset Demand Savings. The Board based these estimates on the water savings due to the prohibitions, i.e. 12,489 AF/yr.

The State Water Board estimates the proposed regulation, over its lifetime, will have statewide economic

(not fiscal) benefits totaling \$167,748,630. Looking at benefits over the proposed regulation’s “lifetime” requires defining the lifetime. The State Water Board assumed a 20-year lifetime and assigned a yearly discount rate of 0.5 percent. To calculate the present value of the 20-year stream, the Board summed the annual present values, assumed to decline by 0.5 percent per year (e.g., \$8,790,771 in the first year; \$8,747,036 in the second year, etc.). Table 7 shows the first five years of the annual present values, and, in the last and highlighted row, their sum: \$167,748,630. For comparison, Table 7 also shows the first five years of total direct benefits for the 20-year horizon. The Board estimates that annual benefits of \$8,790,771 will be constant in future 2015 dollars starting in Year 1.

To estimate the benefits, the State Water Board assumed the following:

- Private suppliers realize variable cost savings.
Private Supplier variable cost savings = total supplier variable cost savings * 15%.
- Private suppliers realize offset demand savings.
Private Supplier offset demand savings = total supplier offset demand savings * 15%.
- All urban suppliers pass on variable cost and offset demand savings to customers.

See Standard Form 399 and the associated supplement for more detailed information about the sources, assumptions and calculations informing the Board’s economic impact assessment.

Direct Benefits over a 20 Year Lifetime for BUSINESSES AND INDIVIDUALS					
Real Interest Rate, 20-year	0.50%				
First Year of Time Horizon, January 1	2018				
Last Year of Time Horizon, December 31	2038				
Year, Position in the Time Horizon	Year 1	Year 2	Year 3	Year 4	Year 5
Year, Calendar, t	2018	2019	2020	2021	2022
Discount Factor = 1 / (1 + i) ^ (t - 2018)	1.000	0.995	0.990	0.985	0.980
Economic Direct Benefit to Private Suppliers and Customers					
Year, Position in the Time Horizon	Year 1	Year 2	Year 3	Year 4	Year 5
Variable Cost Savings to Private Suppliers	\$431,755	\$431,755	\$431,755	\$431,755	\$431,755
Offset Demand to Private Suppliers	\$709,175	\$709,175	\$709,175	\$709,175	\$709,175
Variable Cost Savings to all Customers (benefits from Private + Public Suppliers)	\$2,894,884	\$2,894,884	\$2,894,884	\$2,894,884	\$2,894,884
Offset Demand Savings to all Customers (benefits from Private + Public Suppliers)	\$4,754,957	\$4,754,957	\$4,754,957	\$4,754,957	\$4,754,957
Total Direct Benefits, Economic (future \$)	\$8,790,771	\$8,790,771	\$8,790,771	\$8,790,771	\$8,790,771
Present Value, each year	\$8,790,771	\$8,747,036	\$8,703,519	\$8,660,217	\$8,617,132
Sum of Present Values for Direct Economic Benefits: \$167,748,630					

Table 7: Lifetime direct, economic benefit of the proposed regulation.

Summary/Results of the Economic Impact Analysis

As a result of the proposed regulation, the State Water Board initially determines no jobs or businesses would be created or eliminated, and that landscaping businesses may expand. The regulation would have no direct

benefits on the health and welfare of California residents or worker safety; it would benefit the environment, as described in Section C.

COST OR SAVINGS IMPOSED ON LOCAL AGENCIES OR SCHOOL DISTRICTS

The State Water Board has determined that there is no cost or savings imposed on local agencies or school districts as a result of the proposed regulations, or other nondiscretionary costs or savings imposed on local agencies or school districts, with the exception of urban water agencies. The Board assumes urban water agencies would use reserve funds to temporarily cover the cost of reduced water sales within the first year of the regulation's implementation. Urban water utilities would recover those lost revenue costs the following year. The one-time costs associated with purchasing automatic shutoff nozzles would also be recovered from customers the year incurred. Similarly, any savings urban water agencies realize would eventually be passed onto customers.

BUSINESS REPORTING REQUIREMENT

The proposed regulation would not require any reporting requirements of businesses.

BUSINESS IMPACT/ SMALL BUSINESS

The State Water Board has determined that the proposed regulation does not have a significant, statewide adverse economic impact directly affecting businesses, including the ability of California businesses to compete with businesses in other states. Nor will the proposed regulatory action adversely affect small businesses in California. Government Code section 11342.610 excludes water utilities from the definition of small business.

COST IMPACTS ON REPRESENTATIVE PRIVATE PERSONS OR BUSINESSES

The State Water Board is not aware of any cost impacts that a representative private person or business would necessarily incur in reasonable compliance with the proposed regulations, with the exception of a small fraction of California households that would purchase a nozzle with an automatic shutoff component and those urban water suppliers that are defined as businesses, i.e., investor-owned or privately-owned mutual water companies. Over a twenty-year time horizon, the highest one-time annual cost to a household would be \$1.12. Over the same time period, the highest one-time annual cost to a private water supplier would be \$33,756. These costs likely overestimate the economic impact of the regulation for reasons described in the 399 supplement.

EFFECT ON HOUSING COSTS

The State Water Board has determined that the proposed regulatory action will have no effect on housing costs.

COST OR SAVINGS TO STATE AGENCIES

The State Water Board has determined that there is no savings to state agencies as a result of the proposed regulation. Implementation of the proposed updated emergency regulation will result in no additional workload for the State Water Board. It is anticipated that any additional costs will be absorbed within the State Water Board's existing request that has been fulfilled to hire programmatic and enforcement staff that will perform any additional tasks within their job descriptions.

COST OR SAVINGS IN FEDERAL FUNDING TO THE STATE

The State Water Board has determined that there is no cost or savings in federal funding to the state as a result of the proposed regulations.

ALTERNATIVES

The State Water Board must determine that no reasonable alternative it considered or that has otherwise been identified and brought to its attention would be more effective in carrying out the purpose for which the action is proposed, would be as effective and less burdensome to affected private persons than the proposed action, or would be more cost-effective to affected private persons and equally effective in implementing the statutory policy or other provision of law. Interested persons may present statements or arguments with respect to alternatives to the proposed regulation during the written comment period or at a hearing, if a hearing is requested, on this matter.

AVAILABILITY OF INITIAL STATEMENT OF REASONS, TEXT OF PROPOSED REGULATION, AND THE RULEMAKING FILE

The State Water Board has prepared an Initial Statement of Reasons for the proposed action. The statement includes the specific purpose for the regulation proposed for adoption and the rationale for the State Water Board's determination that adoption is reasonably necessary to carry out the purpose for which the regulation is proposed. All the information upon which the proposed regulation is based is contained in the rulemaking file. The Initial Statement of Reasons, the express terms of the proposed regulation, and the rulemaking file are

available from the contact person listed below or at the website listed below. Those documents contain all the references cited herein.

AVAILABILITY OF CHANGED OR
MODIFIED TEXT

After considering all timely and relevant comments received, the State Water Board may adopt the proposed regulation substantially as described in this notice. If the State Water Board makes modifications that are sufficiently related to the originally proposed text, it will make the modified text (with the changes clearly indicated) available to the public for at least fifteen (15) days before the State Water Board adopts the regulations as modified. A copy of any modified regulations may be obtained by contacting Ms. Charlotte Ely, the primary contact person identified below. The State Water Board will accept written comments on the modified regulations, if any, for fifteen (15) days after the date on which they are made available.

AVAILABILITY OF FINAL STATEMENT
OF REASONS

Upon its completion, a copy of the Final Statement of Reasons (FSOR) may be obtained by contacting either of the persons listed below. A copy may also be accessed on the State Water Board website identified below.

CONTACT PERSONS

Requests of copies of the text of the proposed regulation, the statement of reasons, or other information upon which the rulemaking is based, or other inquiries should be addressed to the following:

Name: Charlotte Ely
Address: State Water Resources
Control Board
Office of Research, Planning
and Performance
1001 "I" Street
Sacramento, CA 95814
Telephone No.: (916) 319-8564
E-mail address: Charlotte.Ely@
waterboards.ca.gov

The backup contact person is:

Name: Kathy Frevert
Address: State Water Resources
Control Board
Office of Research, Planning
and Performance
1001 "I" Street
Sacramento, CA 95814
Telephone No.: (916) 322-5273
E-mail address: Kathy.Frevert@
waterboards.ca.gov

The documents relating to this proposed action may also be found on the State Water Board's website at the following address:

www.waterboards.ca.gov/water_issues/programs/conservation_portal/index.shtml

GENERAL PUBLIC INTEREST

BUREAU OF REAL ESTATE

**NOTICE OF HEARING BY THE REAL
ESTATE COMMISSIONER:
ANNUAL FEE REVIEW — REQUIRED
BY STATUTE**

Wayne S. Bell, Real Estate Commissioner, proposes to consider whether the fees charged by the Bureau of Real Estate ("CalBRE") should be lower than the maximum amount allowed pursuant to California Business and Professions Code ("the Code") Sections 10209.5, 10210, 10214.5, 10215, 10250.3 and 11011. The Commissioner's consideration will include all comments, objections and recommendations regarding such fees.

PUBLIC HEARING ANNOUNCEMENT

Sections 10226 and 11011 of the Code require, among other things, that at least one regulation hearing be held each calendar year to determine if fees lower than those authorized under Section 10226.5(b) of the Code should be prescribed. The hearing referred to below shall serve as the regulation hearing for the purpose of satisfying the requirement of Sections 10226(a) and 11011(a) of the Code. CalBRE may present, at this hearing, relevant data compiled by the CalBRE, and other sources, if appropriate, that have been used or which may be used in making the determination if fees should be lower. There is no proposal to adopt, amend and/or repeal any sections of the California Code of Regulations (CCR) at this time. However, the Commissioner wishes to consider all comments, objections and recommendations regarding such fees.

CalBRE will hold a public hearing starting at 10:00 a.m., on December 27, 2017, at the CalBRE’s Sacramento Office, located at 1651 Exposition Boulevard, Sacramento, California. The hearing room is wheelchair accessible. At the hearing, any person may present statements or arguments orally or in writing relevant to the proposed action. It is requested, but not required, that persons making oral comments at the hearing submit a written copy of their testimony.

WRITTEN COMMENT PERIOD

Any interested person, or his or her authorized representative, may submit written comments relevant to CalBRE’s fee structure. The written comment period closes on December 27, 2017. All written comments must be received by 5:00 p.m. on that date at CalBRE’s Sacramento Office as follows:

Daniel E. Kehew, Real Estate Counsel
 California Bureau of Real Estate
 P.O. Box 137007
 Sacramento, CA 95813–7007
 Telephone: (916) 263–8681

Backup contact person for this proposed action is Stephen Lerner at (916) 263–8704.

CalBRE will mail or deliver a copy of this Hearing Notice by the Real Estate Commissioner to CalBRE’s list of interested persons including:

1. Every person who has filed a Request for Notice of Regulatory Action with CalBRE.
2. The Director of the Department of Consumer Affairs.
3. A substantial number of real estate brokers. They are predominantly small businesses, some of which may be affected by any fee adjustment. (To restate: This announcement involves no such adjustment.) CalBRE has no way of knowing which licensees are small businesses.
4. The California Association of Realtors (a real estate licensee trade organization) and the California Building Industry Association (a home builders trade organization).
5. A substantial number of land developers. Not small businesses by definition, they may, nevertheless, be affected by any fee adjustment. (To restate: This announcement involves no such adjustment.)

DEPARTMENT OF FISH AND WILDLIFE

HABITAT RESTORATION AND ENHANCEMENT ACT
 CONSISTENCY DETERMINATION NO. 1653–2017–009–001–R3

- Project:** LandSmart on–the–Ground for Sonoma Creek — Vineyard Project 2
- Location:** Sonoma County
- Applicant:** Jack London Ranch LLC, as represented by Brian Shepard
- Notifier:** Anya Starovoytov, Sonoma Resource Conservation District

Background

Project Location: The LandSmart on–the–Ground for Sonoma Creek — Vineyard Project, (Project) is located at 2610 London Ranch Road, Glen Ellen, California, at a property owned by Jack London Ranch LLC, Assessor Parcel Number (APN) 054–050–037, and affects an unnamed tributary to Sonoma Creek. The unnamed tributary to Sonoma Creek may support populations of California red–legged frogs (*Rana Aurora*).

Project Description: Jack London Ranch LLC (Applicant) proposes to enhance or restore habitat within an unnamed tributary to Sonoma Creek to provide a net conservation benefit to California red–legged frogs by reducing erosion and sedimentation. The Project includes grading a 450–foot long drainage to create a wider waterway and gentler slope to disperse water and reduce erosion, replace an existing culvert, and install a grade stabilization structure to stabilize a large head cut.

Project Size: The total area of ground disturbance associated with the Project is approximately 0.08 acres and 450 linear feet. The Applicant has included project size calculations that were used to determine the total size of the Project. The proposed Project complies with the General 401 Certification for Small Habitat Restoration Projects and associated categorical exemption from the California Environmental Quality Act (Cal. Code Regs., tit. 14, § 15333).

Project Associated Discharge: Discharge of materials into Waters of the State, as defined by Water Code section 13050 subdivision (e), resulting from the Project include those associated with the following: (1) rock riprap; (2) grass seed; (3) erosion control materials; (4) compost; and (5) 12–inch culvert.

Project Timeframes: Start date: July 2017
 Completion date: September 2018
 Work window: July 1 to
 September 30

Water Quality Certification Background: Because the Project’s primary purpose is habitat restoration intended to improve the quality of waters in California, the San Francisco Regional Water Quality Control Board (Regional Water Board) issued a Notice of Applicability (NOA) for Coverage under the State Water Resources Control Board General 401 Water Quality Certification Order for Small Habitat Restoration Projects SB12006GN (Order), CIWQS Reg. Meas. 414141, CIWQS Place ID 836461 for the Project. The NOA describes the Project and requires the Applicant to comply with terms of the Order. Additionally, the Applicant has provided a supplemental document that sets forth measures to avoid and minimize impacts from sediment and erosion on-site from stormwater flows.

Regional Water Board staff determined that the Project may proceed under the Order. Additionally, Regional Water Board staff determined that the Project, as described in the Notice of Intent (NOI) complies with the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.).

On September 25, 2017, the Director of CDFW received a notice from the Applicant requesting a determination pursuant to Fish and Game Code Section 1653 that the NOA, NOI, and related species protection measures are consistent with the Habitat Restoration and Enhancement Act (HREA) with respect to the Project.

Pursuant to Fish and Game Code section 1653 subdivision (c), CDFW filed an initial notice with the Office of Administrative Law on September 26, 2017, for publishing in the General Public Interest section of the California Regulatory Notice Register (Cal. Reg. Notice File Number 2017, Volume No. 40–Z) on October 6, 2017. Upon approval, CDFW will file a final notice pursuant to Fish and Game Code section 1653 subdivision (f).

Determination

CDFW has determined that the NOA, NOI, and related species protection measures are consistent with HREA as to the Project and meet the conditions set forth in Fish and Game Code section 1653 for authorizing the Project.

Specifically, CDFW finds that: (1) The Project purpose is voluntary habitat restoration and the Project is not required as mitigation; (2) the Project is not part of a regulatory permit for a non-habitat restoration or enhancement construction activity, a regulatory settlement, a regulatory enforcement action, or a court order; and (3) the Project meets the eligibility requirements of the State Water Resources Control Board’s Order for

Clean Water Act Section 401 General Water Quality Certification for Small Habitat Restoration Projects.

Avoidance and Minimization Measures

The avoidance and minimization measures for Project, as required by Fish and Game Code section 1653, subdivision (b)(4), were included in an attachment to the NOI, and contains the following categories: (1) Construction–period Water Quality Protection and Erosion and Sedimentation Control Measures; (2) Post–construction and Sediment Control and Water Quality Protection Requirements; (3) General Program Conditions for Vegetation Management; and (4) General Measures to Avoid Impacts on Biological Resources. The specific avoidance and minimization requirements are found in an attachment to the NOI, *Environmental Protection Measures for LandSmart Program Projects Covered by the Sonoma RCD LandSmart Program Mitigated Negative Declaration Document*.

Monitoring and Reporting

As required by Fish and Game Code section 1653, subdivision (g), the Applicant included a copy of the monitoring and reporting plan. The Applicant’s Monitoring and Reporting Plan provides a timeline for restoration, performance standards, and monitoring parameters and protocols. Specific requirements of the plan are found in an attachment to the NOI, *Monitoring and Reporting Plan LandSmart On–the–Ground for Sonoma Creek Vineyards, Jack London Vineyard, Glen Ellen, California*, prepared by the Sonoma RCD.

Notice of Completion

Coverage under the State Water Resources Control Board General 401 Water Quality Certification Order for Small Habitat Restoration Projects requires a Notice of Completion (NOC) to be submitted by the applicant no later than 30 days after the project has been completed. A complete NOC includes as a minimum:

- photographs with a descriptive title;
- date the photograph was taken;
- name of the photographic site;
- CIWQS Reg. Meas. and CIWQS Place ID number indicated above;
- success criteria for the Project.

The NOC shall demonstrate that the Project has been carried out in accordance with the Project description as provided in the applicant’s NOI. Applicant shall include the project name, WDID number, and ECM PIN number with all future inquiries and document submittals. Pursuant to Fish and Game Code section 1653, subdivision (g), the Applicant shall submit the monitoring plan, monitoring report, and notice of completion to CDFW as required by the General Order. Document submittals shall be made electronically to: karen.weiss@wildlife.ca.gov.

Project Authorization

Pursuant to Fish and Game Code section 1654, CDFW’s approval of a habitat restoration or enhancement project pursuant to section 1652 or 1653 shall be in lieu of any other permit, agreement, license, or other approval issued by the department, including, but not limited to, those issued pursuant to Chapter 6 (commencing with section 1600) and Chapter 10 (commencing with section 1900) of this Division and Chapter 1.5 (commencing with section 2050) of Division 3. Additionally, Applicant must adhere to all measures contained in the approved NOA, and comply with other conditions described in the NOI.

If there are any substantive changes to the Project or if the Water Board amends or replaces the NOA, the Applicant shall be required to obtain a new consistency determination from CDFW. (See generally Fish & G. Code, § 1654, subd. (c).)

PROPOSITION 65

**OFFICE OF ENVIRONMENTAL
HEALTH HAZARD ASSESSMENT**

**SAFE DRINKING WATER AND TOXIC
ENFORCEMENT ACT OF 1986
(Proposition 65)
NOTICE TO INTERESTED PARTIES
November 10, 2017**

**CHEMICALS LISTED EFFECTIVE
NOVEMBER 10, 2017**

**AS KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE REPRODUCTIVE TOXICITY:
PERFLUOROCTANOIC ACID (PFOA) and
PERFLUOROCTANE SULFONATE (PFOS)**

Effective **November 10, 2017**, the Office of Environmental Health Hazard Assessment (OEHHA) is adding *perfluorooctanoic acid (PFOA)* and *perfluorooctane sulfonate (PFOS)* to the list of chemicals known to the state to cause reproductive toxicity (developmental endpoint) for purposes of Proposition 65¹.

The listing of *perfluorooctanoic acid (PFOA)* and *perfluorooctane sulfonate (PFOS)* is based on formal identification by the US Environmental Protection Agency (US EPA), an authoritative body², that the chemicals cause reproductive toxicity. The criteria used

by OEHHA for the listing of chemicals under the “authoritative bodies” mechanism can be found in Title 27, Cal. Code of Regs., section 25306.

The documentation supporting OEHHA’s determination that the criteria for administrative listing have been satisfied for PFOA and PFOS is included in the “Notice of Intent to List: perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS)” posted on OEHHA’s website and published in the September 16, 2016 issue of the California Regulatory Notice Register (Register 2016, No. 38–Z). The publication of the notice initiated a public comment period that closed on November 16, 2016. OEHHA received six public comments on perfluorooctanoic acid and perfluorooctane sulfonate. The comments and OEHHA’s responses are posted with the Notice of Intent to List.

A complete, updated chemical list is published in this issue of the *California Regulatory Notice Register* and is available on the OEHHA website at

<http://oehha.ca.gov/proposition-65/proposition-65-list>.

In summary, PFOA and PFOS are listed under Proposition 65 as known to the state to cause reproductive toxicity, as follows:

Chemical	CAS No.	Endpoint	Listing Mechanism*
<i>Perfluorooctanoic acid (PFOA)</i>	335–67–1	Developmental Toxicity	AB (USEPA)
<i>Perfluorooctane sulfonate (PFOS)</i>	1763–23–1	Developmental Toxicity	AB (USEPA)

*Listing mechanism: AB — “authoritative bodies” mechanism (Title 27, Cal. Code of Regs. section 25306).

**OFFICE OF ENVIRONMENTAL
HEALTH HAZARD ASSESSMENT**

**SAFE DRINKING WATER AND TOXIC
ENFORCEMENT ACT OF 1986**

**CHEMICALS KNOWN TO THE STATE
TO CAUSE CANCER OR
REPRODUCTIVE TOXICITY
November 10, 2017**

The Safe Drinking Water and Toxic Enforcement Act of 1986 requires that the Governor revise and republish at least once per year the list of chemicals known to the State to cause cancer or reproductive toxicity. The identification number indicated in the following list is the Chemical Abstracts Service (CAS) Registry Number. No CAS number is given when several substances are presented as a single listing. The date refers to the initial appearance of the chemical on the list. For easy refer-

¹ The Safe Drinking Water and Toxic Enforcement Act of 1986, Health and Safety Code section 25249.5 et seq.

² See Health and Safety Code section 25249.8(b) and Title 27, Cal. Code of Regs., section 25306.

ence, chemicals which are shown underlined are newly added. Chemicals which are shown with a strikeout

were placed on the list with the date noted, and have subsequently been removed.

CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER

<u>Chemical</u>	<u>CAS Number</u>	<u>Date</u>
A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	26148-68-5	January 1, 1990
Acetaldehyde	75-07-0	April 1, 1988
Acetamide	60-35-5	January 1, 1990
Acetochlor	34256-82-1	January 1, 1989
2-Acetylaminofluorene	53-96-3	July 1, 1987
Acifluorfen sodium	62476-59-9	January 1, 1990
Acrylamide	79-06-1	January 1, 1990
Acrylonitrile	107-13-1	July 1, 1987
Actinomycin D	50-76-0	October 1, 1989
AF-2;[2-(2-furyl)-3-(5-nitro-2-furyl)]acrylamide	3688-53-7	July 1, 1987
Aflatoxins	—	January 1, 1988
Alachlor	15972-60-8	January 1, 1989
Alcoholic beverages, when associated with alcohol abuse	—	July 1, 1988
Aldrin	309-00-2	July 1, 1988
<u>Allyl chloride</u> <u>Delisted October 29, 1999</u>	107-05-1	January 1, 1990
Aloe vera, non-decolorized whole leaf extract		December 4, 2015
2-Aminoanthraquinone	117-79-3	October 1, 1989
<i>p</i> -Aminoazobenzene	60-09-3	January 1, 1990
<i>ortho</i> -Aminoazotoluene	97-56-3	July 1, 1987
4-Aminobiphenyl (4-aminodiphenyl)	92-67-1	February 27, 1987
1-Amino-2,4-dibromoanthraquinone	81-49-2	August 26, 1997
3-Amino-9-ethylcarbazole hydrochloride	6109-97-3	July 1, 1989
2-Amino fluorene	153-78-6	January 29, 1999
1-Amino-2-methylantraquinone	82-28-0	October 1, 1989
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712-68-5	July 1, 1987
4-Amino-2-nitrophenol	119-34-6	January 29, 1999
Amitrole	61-82-5	July 1, 1987
Amsacrine	51264-14-3	August 7, 2009
Analgesic mixtures containing phenacetin	—	February 27, 1987
Androstenedione	63-05-8	May 3, 2011
Aniline	62-53-3	January 1, 1990
Aniline hydrochloride	142-04-1	May 15, 1998
<i>ortho</i> -Anisidine	90-04-0	July 1, 1987
<i>ortho</i> -Anisidine hydrochloride	134-29-2	July 1, 1987
Anthraquinone	84-65-1	September 28, 2007
Antimony oxide (Antimony trioxide)	1309-64-4	October 1, 1990
Aramite	140-57-8	July 1, 1987
Areca nut	—	February 3, 2006
Aristolochic acids	—	July 9, 2004
Arsenic (inorganic arsenic compounds)	—	February 27, 1987
Asbestos	1332-21-4	February 27, 1987
Auramine	492-80-8	July 1, 1987
Azacitidine	320-67-2	January 1, 1992
Azaserine	115-02-6	July 1, 1987
Azathioprine	446-86-6	February 27, 1987
Azobenzene	103-33-3	January 1, 1990
Benthiavalicarb-isopropyl	177406-68-7	July 1, 2008
Benz[a]anthracene	56-55-3	July 1, 1987
Benzene	71-43-2	February 27, 1987

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<i>Chemical</i>	<i>CAS Number</i>	<i>Date</i>
Benzidine [and its salts]	92-87-5	February 27, 1987
Benzidine-based dyes	—	October 1, 1992
Benzo[b]fluoranthene	205-99-2	July 1, 1987
Benzo[j]fluoranthene	205-82-3	July 1, 1987
Benzo[k]fluoranthene	207-08-9	July 1, 1987
Benzofuran	271-89-6	October 1, 1990
Benzophenone	119-61-9	June 22, 2012
Benzo[a]pyrene	50-32-8	July 1, 1987
Benzotrichloride	98-07-7	July 1, 1987
Benzyl chloride	100-44-7	January 1, 1990
Benzyl violet 4B	1694-09-3	July 1, 1987
Beryllium and beryllium compounds	—	October 1, 1987
Betel quid with tobacco	—	January 1, 1990
Betel quid without tobacco	—	February 3, 2006
2,2-Bis(bromomethyl)-1,3-propanediol	3296-90-0	May 1, 1996
Bis(2-chloroethyl)ether	111-44-4	April 1, 1988
N,N-Bis(2-chloroethyl)-2-naphthylamine (Chlornapazine)	494-03-1	February 27, 1987
Bischloroethyl nitrosourea (BCNU) (Carmustine)	154-93-8	July 1, 1987
Bis(chloromethyl)ether	542-88-1	February 27, 1987
Bis(2-chloro-1-methylethyl) ether, technical grade	—	October 29, 1999
Bitumens, extracts of steam-refined and air refined	—	January 1, 1990
Bracken fern	—	January 1, 1990
Bromate	15541-45-4	May 31, 2002
Bromochloroacetic acid	5589-96-8	April 6, 2010
Bromodichloroacetic acid	71133-14-7	July 29, 2016
Bromodichloromethane	75-27-4	January 1, 1990
Bromoethane	74-96-4	December 22, 2000
Bromoform	75-25-2	April 1, 1991
1-Bromopropane	106-94-5	August 5, 2016
1,3-Butadiene	106-99-0	April 1, 1988
1,4-Butanediol dimethanesulfonate (Busulfan)	55-98-1	February 27, 1987
Butylated hydroxyanisole	25013-16-5	January 1, 1990
beta-Butyrolactone	3068-88-0	July 1, 1987
Cacodylic acid	75-60-5	May 1, 1996
Cadmium and cadmium compounds	—	October 1, 1987
Caffeic acid	331-39-5	October 1, 1994
Captafol	2425-06-1	October 1, 1988
Captan	133-06-2	January 1, 1990
Carbaryl	63-25-2	February 5, 2010
Carbazole	86-74-8	May 1, 1996
Carbon black (airborne, unbound particles of respirable size)	1333-86-4	February 21, 2003
Carbon tetrachloride	56-23-5	October 1, 1987
Carbon-black extracts	—	January 1, 1990
N-Carboxymethyl-N-nitrosourea	60391-92-6	January 25, 2002
Catechol	120-80-9	July 15, 2003
Ceramic fibers (airborne particles of respirable size)	—	July 1, 1990
Certain combined chemotherapy for lymphomas	—	February 27, 1987
Chloral	75-87-6	September 13, 2013
Chloral hydrate	302-17-0	September 13, 2013
Chlorambucil	305-03-3	February 27, 1987
Chloramphenicol <u>Delisted January 4, 2013</u>	56-75-7	October 1, 1989
Chloramphenicol sodium succinate	982-57-0	September 27, 2013

<i>Chemical</i>	<i>CAS Number</i>	<i>Date</i>
Chlordane	57-74-9	July 1, 1988
Chlordecone (Kepone)	143-50-0	January 1, 1988
Chlordimeform	6164-98-3	January 1, 1989
Chlorendic acid	115-28-6	July 1, 1989
Chlorinated paraffins (Average chain length, C12; approximately 60 percent chlorine by weight)	108171-26-2	July 1, 1989
<i>p</i> -Chloroaniline	106-47-8	October 1, 1994
<i>p</i> -Chloroaniline hydrochloride	20265-96-7	May 15, 1998
Chlorodibromomethane <u>Delisted October 29, 1999</u>	124-48-1	January 1, 1990
Chloroethane (Ethyl chloride)	75-00-3	July 1, 1990
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	13010-47-4	January 1, 1988
(Lomustine)		
1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU)	13909-09-6	October 1, 1988
Chloroform	67-66-3	October 1, 1987
Chloromethyl methyl ether (technical grade)	107-30-2	February 27, 1987
3-Chloro-2-methylpropene	563-47-3	July 1, 1989
1-Chloro-4-nitrobenzene	100-00-5	October 29, 1999
4-Chloro-ortho-phenylenediamine	95-83-0	January 1, 1988
<i>p</i> -Chloro- <i>o</i> -toluidine	95-69-2	January 1, 1990
<i>p</i> -Chloro- <i>o</i> -toluidine, strong acid salts of	—	May 15, 1998
5-Chloro- <i>o</i> -toluidine and its strong acid salts	—	October 24, 1997
Chloroprene	126-99-8	June 2, 2000
Chlorothalonil	1897-45-6	January 1, 1989
Chlorotrianisene	569-57-3	September 1, 1996
Chlorozotocin	54749-90-5	January 1, 1992
Chromium (hexavalent compounds)	—	February 27, 1987
Chrysene	218-01-9	January 1, 1990
C.I. Acid Red 114	6459-94-5	July 1, 1992
C.I. Basic Red 9 monohydrochloride	569-61-9	July 1, 1989
C.I. Direct Blue 15	2429-74-5	August 26, 1997
C.I. Direct Blue 218	28407-37-6	August 26, 1997
C.I. Disperse Yellow 3	2832-40-8	February 8, 2013
C.I. Solvent Yellow 14	842-07-9	May 15, 1998
Ciclosporin (Cyclosporin A; Cyclosporine)	59865-13-3	January 1, 1992
	79217-60-0	
Cidofovir	113852-37-2	January 29, 1999
Cinnamyl anthranilate	87-29-6	July 1, 1989
Cisplatin	15663-27-1	October 1, 1988
Citrus Red No. 2	6358-53-8	October 1, 1989
Clofibrate	637-07-0	September 1, 1996
Clomiphene citrate	50-41-9	May 24, 2013
CMNP (pyrazachlor)	6814-58-0	August 21, 2015
Cobalt metal powder	7440-48-4	July 1, 1992
Cobalt [II] oxide	1307-96-6	July 1, 1992
Cobalt sulfate	10124-43-3	May 20, 2005
Cobalt sulfate heptahydrate	10026-24-1	June 2, 2000
Coconut oil diethanolamine condensate (cocamide diethanolamine)	—	June 22, 2012
Coke oven emissions	—	February 27, 1987
Conjugated estrogens	—	February 27, 1987
Creosotes	—	October 1, 1988
<i>para</i> -Cresidine	120-71-8	January 1, 1988
Cumene	98-82-8	April 6, 2010

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<i>Chemical</i>	<i>CAS Number</i>	<i>Date</i>
Cupferron	135-20-6	January 1, 1988
Cycasin	14901-08-7	January 1, 1988
Cyclopenta[cd]pyrene	27208-37-3	April 29, 2011
Cyclophosphamide (anhydrous)	50-18-0	February 27, 1987
Cyclophosphamide (hydrated)	6055-19-2	February 27, 1987
Cytembena	21739-91-3	May 15, 1998
D&C Orange No. 17	3468-63-1	July 1, 1990
D&C Red No. 8	2092-56-0	October 1, 1990
D&C Red No. 9	5160-02-1	July 1, 1990
D&C Red No. 19	81-88-9	July 1, 1990
Dacarbazine	4342-03-4	January 1, 1988
Daminozide	1596-84-5	January 1, 1990
Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)	117-10-2	January 1, 1992
Daunomycin	20830-81-3	January 1, 1988
DDD (Dichlorodiphenyldichloroethane)	72-54-8	January 1, 1989
DDE (Dichlorodiphenyldichloroethylene)	72-55-9	January 1, 1989
DDT (Dichlorodiphenyltrichloroethane)	50-29-3	October 1, 1987
DDVP (Dichlorvos)	62-73-7	January 1, 1989
N,N' -Diacetylbenzidine	613-35-4	October 1, 1989
2,4-Diaminoanisole	615-05-4	October 1, 1990
2,4-Diaminoanisole sulfate	39156-41-7	January 1, 1988
4,4' -Diaminodiphenyl ether (4,4' -Oxydianiline)	101-80-4	January 1, 1988
2,4-Diaminotoluene	95-80-7	January 1, 1988
Diaminotoluene (mixed) <u>Delisted November 20, 2015</u>	—	January 1, 1990
Diazoaminobenzene	136-35-6	May 20, 2005
Dibenz[a,h]acridine	226-36-8	January 1, 1988
Dibenz[a,j]acridine	224-42-0	January 1, 1988
Dibenzanthracenes	—	December 26, 2014
Dibenz[a,c]anthracene	215-58-7	December 26, 2014
Dibenz[a,h]anthracene	53-70-3	January 1, 1988
Dibenz[a,j]anthracene	224-41-9	December 26, 2014
7H-Dibenzo[c,g]carbazole	194-59-2	January 1, 1988
Dibenzo[a,e]pyrene	192-65-4	January 1, 1988
Dibenzo[a,h]pyrene	189-64-0	January 1, 1988
Dibenzo[a,i]pyrene	189-55-9	January 1, 1988
Dibenzo[a,l]pyrene	191-30-0	January 1, 1988
Dibromoacetic acid	631-64-1	June 17, 2008
Dibromoacetonitrile	3252-43-5	May 3, 2011
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	July 1, 1987
2,3-Dibromo-1-propanol	96-13-9	October 1, 1994
Dichloroacetic acid	79-43-6	May 1, 1996
p-Dichlorobenzene	106-46-7	January 1, 1989
3,3' -Dichlorobenzidine	91-94-1	October 1, 1987
3,3' -Dichlorobenzidine dihydrochloride	612-83-9	May 15, 1998
1,4-Dichloro-2-butene	764-41-0	January 1, 1990
3,3' -Dichloro-4,4' -diaminodiphenyl ether	28434-86-8	January 1, 1988
1,1-Dichloroethane	75-34-3	January 1, 1990
Dichloromethane (Methylene chloride)	75-09-2	April 1, 1988
1,2-Dichloropropane	78-87-5	January 1, 1990
1,3-Dichloro-2-propanol (1,3-DCP)	96-23-1	October 8, 2010
1,3-Dichloropropene	542-75-6	January 1, 1989
Diclofop-methyl	51338-27-3	April 6, 2010

<i>Chemical</i>	<i>CAS Number</i>	<i>Date</i>
Dieldrin	60-57-1	July 1, 1988
Dienestrol <u>Delisted January 4, 2013</u>	84-17-3	January 1, 1990
Diepoxybutane	1464-53-5	January 1, 1988
Diesel engine exhaust	—	October 1, 1990
Diethanolamine	111-42-2	June 22, 2012
Di(2-ethylhexyl)phthalate	117-81-7	January 1, 1988
1,2-Diethylhydrazine	1615-80-1	January 1, 1988
Diethyl sulfate	64-67-5	January 1, 1988
Diethylstilbestrol (DES)	56-53-1	February 27, 1987
Diglycidyl resorcinol ether (DGRE)	101-90-6	July 1, 1989
Dihydrosafrole	94-58-6	January 1, 1988
Diisononyl phthalate (DINP)	—	December 20, 2013
Diisopropyl sulfate	2973-10-6	April 1, 1993
3,3'-Dimethoxybenzidine (ortho-Dianisidine)	119-90-4	January 1, 1988
3,3'-Dimethoxybenzidine dihydrochloride (ortho-Dianisidine dihydrochloride)	20325-40-0	October 1, 1990
3,3'-Dimethoxybenzidine-based dyes metabolized to 3,3'-dimethoxybenzidine	—	June 11, 2004
3,3'-Dimethylbenzidine-based dyes metabolized to 3,3'-dimethylbenzidine	—	June 11, 2004
Dimethyl sulfate	77-78-1	January 1, 1988
4-Dimethylaminoazobenzene	60-11-7	January 1, 1988
trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	55738-54-0	January 1, 1988
7,12-Dimethylbenz(a)anthracene	57-97-6	January 1, 1990
3,3'-Dimethylbenzidine (ortho-Tolidine)	119-93-7	January 1, 1988
3,3'-Dimethylbenzidine dihydrochloride	612-82-8	April 1, 1992
Dimethylcarbonyl chloride	79-44-7	January 1, 1988
N,N-Dimethylformamide	68-12-2	October 27, 2017
1,1-Dimethylhydrazine (UDMH)	57-14-7	October 1, 1989
1,2-Dimethylhydrazine	540-73-8	January 1, 1988
2,6-Dimethyl-N-nitrosomorpholine (DMNM)	1456-28-6	February 8, 2013
N,N-Dimethyl-p-toluidine	99-97-8	May 2, 2014
Dimethylvinylchloride	513-37-1	July 1, 1989
3,7-Dinitrofluoranthene	105735-71-5	August 26, 1997
3,9-Dinitrofluoranthene	22506-53-2	August 26, 1997
1,3-Dinitropyrene	75321-20-9	November 2, 2012
1,6-Dinitropyrene	42397-64-8	October 1, 1990
1,8-Dinitropyrene	42397-65-9	October 1, 1990
Dinitrotoluene mixture, 2,4-/2,6-	—	May 1, 1996
2,4-Dinitrotoluene	121-14-2	July 1, 1988
2,6-Dinitrotoluene	606-20-2	July 1, 1995
Di-n-propyl isocinchomeronate (MGK Repellent 326)	136-45-8	May 1, 1996
1,4-Dioxane	123-91-1	January 1, 1988
Diphenylhydantoin (Phenytoin)	57-41-0	January 1, 1988
Diphenylhydantoin (Phenytoin), sodium salt	630-93-3	January 1, 1988
Direct Black 38 (technical grade)	1937-37-7	January 1, 1988
Direct Blue 6 (technical grade)	2602-46-2	January 1, 1988
Direct Brown 95 (technical grade)	16071-86-6	October 1, 1988
Disperse Blue 1	2475-45-8	October 1, 1990
Diuron	330-54-1	May 31, 2002

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Doxorubicin hydrochloride (Adriamycin)	25316-40-9	July 1, 1987
Emissions from combustion of coal	—	August 7, 2013
Emissions from high-temperature unrefined rapeseed oil	—	January 3, 2014
Epichlorohydrin	106-89-8	October 1, 1987
Epoxiconazole	135319-73-2	April 15, 2011
Erionite	12510-42-8/ 66733-21-9	October 1, 1988
Estradiol 17B	50-28-2	January 1, 1988
Estragole	140-67-0	October 29, 1999
Estrogens, steroidal	—	August 19, 2005
Estrogen-progestogen (combined) used as menopausal therapy	—	November 4, 2011
Estrone	53-16-7	January 1, 1988
Estropipate	7280-37-7	August 26, 1997
Ethanol in alcoholic beverages	—	April 29, 2011
Ethinylestradiol	57-63-6	January 1, 1988
Ethoprop	13194-48-4	February 27, 2001
Ethyl acrylate	140-88-5	July 1, 1989
Ethylbenzene	100-41-4	June 11, 2004
Ethyl methanesulfonate	62-50-0	January 1, 1988
Ethyl-4,4'-dichlorobenzilate	510-15-6	January 1, 1990
Ethylene dibromide	106-93-4	July 1, 1987
Ethylene dichloride (1,2-Dichloroethane)	107-06-2	October 1, 1987
Ethylene oxide	75-21-8	July 1, 1987
Ethylene thiourea	96-45-7	January 1, 1988
Ethyleneimine (Aziridine)	151-56-4	January 1, 1988
Etoposide	33419-42-0	November 4, 2011
Etoposide in combination with cisplatin and bleomycin	—	November 4, 2011
Fenoxycarb	72490-01-8	June 2, 2000
Folpet	133-07-3	January 1, 1989
Formaldehyde (gas)	50-00-0	January 1, 1988
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	January 1, 1988
FumonisinB ₁	116355-83-0	November 14, 2003
Furan	110-00-9	October 1, 1993
Furazolidone	67-45-8	January 1, 1990
Furfuryl alcohol	98-00-0	September 30, 2016
Furmecyclox	60568-05-0	January 1, 1990
Fusarin C	79748-81-5	July 1, 1995
Gallium arsenide	1303-00-0	August 1, 2008
Ganciclovir	82410-32-0	August 26, 1997
Gasoline engine exhaust (condensates/extracts)	—	October 1, 1990
Gemfibrozil	25812-30-0	December 22, 2000
Glass wool fibers (inhalable and biopersistent)	—	July 1, 1990
Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)	67730-11-4	January 1, 1990
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	67730-10-3	January 1, 1990
Glycidaldehyde	765-34-4	January 1, 1988
Glycidol	556-52-5	July 1, 1990
Glyphosate	1071-83-6	July 7, 2017
Goldenseal root powder	—	December 4, 2015
Griseofulvin	126-07-8	January 1, 1990

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Gyromitrin (Acetaldehyde methylformylhydrazone)	16568-02-8	January 1, 1988
HC Blue 1	2784-94-3	July 1, 1989
Heptachlor	76-44-8	July 1, 1988
Heptachlor epoxide	1024-57-3	July 1, 1988
Herbal remedies containing plant species of the genus Aristolochia	—	July 9, 2004
Hexachlorobenzene	118-74-1	October 1, 1987
Hexachlorobutadiene	87-68-3	May 3, 2011
Hexachlorocyclohexane (technical grade)	—	October 1, 1987
Hexachlorodibenzodioxin	34465-46-8	April 1, 1988
Hexachloroethane	67-72-1	July 1, 1990
2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)	—	March 4, 2005
Hexamethylphosphoramide	680-31-9	January 1, 1988
Hydrazine	302-01-2	January 1, 1988
Hydrazine sulfate	10034-93-2	January 1, 1988
Hydrazobenzene (1,2-Diphenylhydrazine)	122-66-7	January 1, 1988
1-Hydroxyanthraquinone	129-43-1	May 27, 2005
Imazalil	35554-44-0	May 20, 2011
Indeno [1,2,3-cd]pyrene	193-39-5	January 1, 1988
Indium phosphide	22398-80-7	February 27, 2001
IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	76180-96-6	April 1, 1990
Iprodione	36734-19-7	May 1, 1996
Iprovalicarb	140923-17-7	June 1, 2007
	140923-25-7	
Iron dextran complex	9004-66-4	January 1, 1988
Isobutyl nitrite	542-56-3	May 1, 1996
Isoprene	78-79-5	May 1, 1996
Isopyrazam	881686-58-1	July 24, 2012
Isosafrole <u>Delisted December 8, 2006</u>	120-58-1	October 1, 1989
Isoxaflutole	141112-29-0	December 22, 2000
Kresoxim-methyl	143390-89-0	February 3, 2012
Lactofen	77501-63-4	January 1, 1989
Lasiocarpine	303-34-4	April 1, 1988
Lead acetate	301-04-2	January 1, 1988
Lead and lead compounds	—	October 1, 1992
Lead phosphate	7446-27-7	April 1, 1988
Lead subacetate	1335-32-6	October 1, 1989
Leather dust	—	April 29, 2011
Lindane and other hexachlorocyclohexane isomers	—	October 1, 1989
Lynestrenol	52-76-6	February 27, 2001
Malathion	121-75-5	May 20, 2016
Malonaldehyde, sodium salt	24382-04-5	May 3, 2011
Mancozeb	8018-01-7	January 1, 1990
Maneb	12427-38-2	January 1, 1990
Marijuana smoke	—	June 19, 2009
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	68006-83-7	January 1, 1990
Medroxyprogesterone acetate	71-58-9	January 1, 1990
Megestrol acetate	595-33-5	March 28, 2014
MeIQ(2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)	77094-11-2	October 1, 1994
MeIQx(2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)	77500-04-0	October 1, 1994
Melphalan	148-82-3	February 27, 1987
Mepanipyryn	110235-47-7	July 1, 2008
2-Mercaptobenzothiazole	149-30-4	October 27, 2017

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Merphalan	531-76-0	April 1, 1988
Mestranol	72-33-3	April 1, 1988
Metam potassium	137-41-7	December 31, 2010
Metham sodium	137-42-8	November 6, 1998
8-Methoxypsoralen with ultraviolet A therapy	298-81-7	February 27, 1987
5-Methoxypsoralen with ultraviolet A therapy	484-20-8	October 1, 1988
2-Methylaziridine (Propyleneimine)	75-55-8	January 1, 1988
Methylazoxymethanol	590-96-5	April 1, 1988
Methylazoxymethanol acetate	592-62-1	April 1, 1988
Methyl carbamate	598-55-0	May 15, 1998
3-Methylcholanthrene	56-49-5	January 1, 1990
5-Methylchrysene	3697-24-3	April 1, 1988
4,4' -Methylene bis(2-chloroaniline)	101-14-4	July 1, 1987
4,4' -Methylene bis(N,N-dimethyl)benzenamine	101-61-1	October 1, 1989
4,4' -Methylene bis(2-methylaniline)	838-88-0	April 1, 1988
4,4' -Methylenedianiline	101-77-9	January 1, 1988
4,4' -Methylenedianiline dihydrochloride	13552-44-8	January 1, 1988
Methyleugenol	93-15-2	November 16, 2001
Methylhydrazine and its salts	—	July 1, 1992
2-Methylimidazole	693-98-1	June 22, 2012
4-Methylimidazole	822-36-6	January 7, 2011
Methyl iodide	74-88-4	April 1, 1988
Methyl isobutyl ketone	108-10-1	November 4, 2011
Methylmercury compounds	—	May 1, 1996
Methyl methanesulfonate	66-27-3	April 1, 1988
2-Methyl-1-nitroanthraquinone (of uncertain purity)	129-15-7	April 1, 1988
N-Methyl-N' -nitro-N-nitrosoguanidine	70-25-7	April 1, 1988
N-Methylolacrylamide	924-42-5	July 1, 1990
α -Methyl styrene (alpha-Methylstyrene)	98-83-9	November 2, 2012
Methylthiouracil	56-04-2	October 1, 1989
Metiram	9006-42-2	January 1, 1990
Metronidazole	443-48-1	January 1, 1988
Michler's ketone	90-94-8	January 1, 1988
Mirex	2385-85-5	January 1, 1988
Mitomycin C	50-07-7	April 1, 1988
Mitoxantrone hydrochloride	70476-82-3	January 23, 2015
MON 4660 (dichloroacetyl-1-oxa-4-azaspiro(4,5)-decane)	71526-07-3	March 22, 2011
MON 13900 (furilazole)	121776-33-8	March 22, 2011
3-Monochloropropane-1,2-diol (3-MCPD)	96-24-2	October 8, 2010
Monocrotaline	315-22-0	April 1, 1988
MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)	113803-47-7	November 4, 2011
5-(Morpholinomethyl)-3-[(5-nitro-furfurylidene)-amino]-2-oxazolidinone	139-91-3	April 1, 1988
Mustard Gas	505-60-2	February 27, 1987
MX (3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone)	77439-76-0	December 22, 2000
beta-Myrcene	123-35-3	March 27, 2015
Nafenopin	3771-19-5	April 1, 1988
Nalidixic acid	389-08-2	May 15, 1998
Naphthalene	91-20-3	April 19, 2002
1-Naphthylamine	134-32-7	October 1, 1989
2-Naphthylamine	91-59-8	February 27, 1987

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Nickel (Metallic)	7440-02-0	October 1, 1989
Nickel acetate	373-02-4	October 1, 1989
Nickel carbonate	3333-67-3	October 1, 1989
Nickel carbonyl	13463-39-3	October 1, 1987
Nickel compounds	—	May 7, 2004
Nickel hydroxide	12054-48-7; 12125-56-3	October 1, 1989
Nickelocene	1271-28-9	October 1, 1989
Nickel oxide	1313-99-1	October 1, 1989
Nickel refinery dust from the pyrometallurgical process	—	October 1, 1987
Nickel subsulfide	12035-72-2	October 1, 1987
Niridazole	61-57-4	April 1, 1988
Nitrapyrin	1929-82-4	October 5, 2005
Nitrilotriacetic acid	139-13-9	January 1, 1988
Nitrilotriacetic acid, trisodium salt monohydrate	18662-53-8	April 1, 1989
5-Nitroacenaphthene	602-87-9	April 1, 1988
5-Nitro- <i>o</i> -anisidine <u>Delisted December 8, 2006</u>	99-59-2	October 1, 1989
<i>o</i> -Nitroanisole	91-23-6	October 1, 1992
Nitrobenzene	98-95-3	August 26, 1997
4-Nitrobiphenyl	92-93-3	April 1, 1988
6-Nitrochrysene	7496-02-8	October 1, 1990
Nitrofen (technical grade)	1836-75-5	January 1, 1988
2-Nitrofluorene	607-57-8	October 1, 1990
Nitrofurazone	59-87-0	January 1, 1990
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone	555-84-0	April 1, 1988
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	531-82-8	April 1, 1988
Nitrogen mustard (Mechlorethamine)	51-75-2	January 1, 1988
Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	55-86-7	April 1, 1988
Nitrogen mustard N-oxide	126-85-2	April 1, 1988
Nitrogen mustard N-oxide hydrochloride	302-70-5	April 1, 1988
Nitromethane	75-52-5	May 1, 1997
2-Nitropropane	79-46-9	January 1, 1988
1-Nitropyrene	5522-43-0	October 1, 1990
4-Nitropyrene	57835-92-4	October 1, 1990
N-Nitrosodi- <i>n</i> -butylamine	924-16-3	October 1, 1987
N-Nitrosodiethanolamine	1116-54-7	January 1, 1988
N-Nitrosodiethylamine	55-18-5	October 1, 1987
N-Nitrosodimethylamine	62-75-9	October 1, 1987
<i>p</i> -Nitrosodiphenylamine	156-10-5	January 1, 1988
N-Nitrosodiphenylamine	86-30-6	April 1, 1988
N-Nitrosodi- <i>n</i> -propylamine	621-64-7	January 1, 1988
N-Nitroso-N-ethylurea	759-73-9	October 1, 1987
3-(N-Nitrosomethylamino)propionitrile	60153-49-3	April 1, 1990
4-(N-Nitrosomethylamino)-1-(3-pyridyl)1-butanone	64091-91-4	April 1, 1990
N-Nitrosomethyl- <i>n</i> -butylamine	7068-83-9	December 26, 2014
N-Nitrosomethyl- <i>n</i> -decylamine	75881-22-0	December 26, 2014
N-Nitrosomethyl- <i>n</i> -dodecylamine	55090-44-3	December 26, 2014
N-Nitrosomethylethylamine	10595-95-6	October 1, 1989
N-Nitrosomethyl- <i>n</i> -heptylamine	16338-99-1	December 26, 2014
N-Nitrosomethyl- <i>n</i> -hexylamine	28538-70-7	December 26, 2014
N-Nitrosomethyl- <i>n</i> -nonylamine	75881-19-5	December 26, 2014
N-Nitrosomethyl- <i>n</i> -octylamine	34423-54-6	December 26, 2014
N-Nitrosomethyl- <i>n</i> -pentylamine	13256-07-0	December 26, 2014

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-Nitrosomethyl- <i>n</i> -propylamine	924-46-9	December 26, 2014
N-Nitrosomethyl- <i>n</i> -tetradecylamine	75881-20-8	December 26, 2014
N-Nitrosomethyl- <i>n</i> -undecylamine	68107-26-6	December 26, 2014
N-Nitroso-N-methylurea	684-93-5	October 1, 1987
N-Nitroso-N-methylurethane	615-53-2	April 1, 1988
N-Nitrosomethylvinylamine	4549-40-0	January 1, 1988
N-Nitrosomorpholine	59-89-2	January 1, 1988
N-Nitrosornicotine	16543-55-8	January 1, 1988
N-Nitrosopiperidine	100-75-4	January 1, 1988
N-Nitrosopyrrolidine	930-55-2	October 1, 1987
N-Nitrososarcosine	13256-22-9	January 1, 1988
<i>o</i> -Nitrotoluene	88-72-2	May 15, 1998
Norethisterone (Norethindrone)	68-22-4	October 1, 1989
Norethynodrel	68-23-5	February 27, 2001
Ochratoxin A	303-47-9	July 1, 1990
Oil Orange SS	2646-17-5	April 1, 1988
Oral contraceptives, combined	—	October 1, 1989
Oral contraceptives, sequential	—	October 1, 1989
Oryzalin	19044-88-3	September 12, 2008
Oxadiazon	19666-30-9	July 1, 1991
Oxazepam	604-75-1	October 1, 1994
Oxymetholone	434-07-1	January 1, 1988
Oxythioquinox (Chinomethionat)	2439-01-2	August 20, 1999
Palygorskite fibers (> 5µm in length)	12174-11-7	December 28, 1999
Panfuran S	794-93-4	January 1, 1988
Parathion	56-38-2	May 20, 2016
Pentachlorophenol	87-86-5	January 1, 1990
Pentabromodiphenyl ether mixture [DE-71 (technical grade)]	—	July 7, 2017
Pentachlorophenol and by-products of its synthesis (complex mixture)	—	October 21, 2016
Pentosan polysulfate sodium	—	April 18, 2014
Phenacetin	62-44-2	October 1, 1989
Phenazopyridine	94-78-0	January 1, 1988
Phenazopyridine hydrochloride	136-40-3	January 1, 1988
Phenesterin	3546-10-9	July 1, 1989
Phenobarbital	50-06-6	January 1, 1990
Phenolphthalein	77-09-8	May 15, 1998
Phenoxybenzamine	59-96-1	April 1, 1988
Phenoxybenzamine hydrochloride	63-92-3	April 1, 1988
<i>o</i> -Phenylenediamine and its salts	95-54-5	May 15, 1998
Phenyl glycidyl ether	122-60-1	October 1, 1990
Phenylhydrazine and its salts	—	July 1, 1992
<i>o</i> -Phenylphenate, sodium	132-27-4	January 1, 1990
<i>o</i> -Phenylphenol	90-43-7	August 4, 2000
PhiP(2-Amino-1-methyl-6-phenylimidazol[4,5-b]pyridine)	105650-23-5	October 1, 1994
Pioglitazone	111025-46-8	April 18, 2014
Pirimicarb	23103-98-2	July 2, 2008
Polybrominated biphenyls	—	January 1, 1988
Polychlorinated biphenyls	—	October 1, 1989
Polychlorinated biphenyls (containing 60 or more percent chlorine by molecular weight)	—	January 1, 1988
Polychlorinated dibenzo- <i>p</i> -dioxins	—	October 1, 1992
Polychlorinated dibenzofurans	—	October 1, 1992

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Polygeenan	53973-98-1	January 1, 1988
Ponceau MX	3761-53-3	April 1, 1988
Ponceau 3R	3564-09-8	April 1, 1988
Potassium bromate	7758-01-2	January 1, 1990
Primidone	125-33-7	August 20, 1999
Procarbazine	671-16-9	January 1, 1988
Procarbazine hydrochloride	366-70-1	January 1, 1988
Procymidone	32809-16-8	October 1, 1994
Progesterone	57-83-0	January 1, 1988
Pronamide	23950-58-5	May 1, 1996
Propachlor	1918-16-7	February 27, 2001
d1,3-Propane sultone	1120-71-4	January 1, 1988
Propargite	2312-35-8	October 1, 1994
beta-Propiolactone	57-57-8	January 1, 1988
Propoxur	114-26-1	August 11, 2006
Propylene glycol mono- <i>t</i> -butyl ether	57018-52-7	June 11, 2004
Propylene oxide	75-56-9	October 1, 1988
Propylthiouracil	51-52-5	January 1, 1988
Pulegone	89-82-7	April 18, 2014
Pymetrozine	123312-89-0	March 22, 2011
Pyridine	110-86-1	May 17, 2002
Quinoline and its strong acid salts	—	October 24, 1997
Radionuclides	—	July 1, 1989
Reserpine	50-55-5	October 1, 1989
Residual (heavy) fuel oils	—	October 1, 1990
Resmethrin	10453-86-8	July 1, 2008
Riddelliine	23246-96-0	December 3, 2004
<u>Saccharin Delisted April 6, 2001</u>	81-07-2	October 1, 1989
<u>Saccharin, sodium Delisted January 17, 2003</u>	128-44-9	January 1, 1988
Safrole	94-59-7	January 1, 1988
Salted fish, Chinese-style	—	April 29, 2011
Sedaxane	874967-67-6	July 1, 2016
Selenium sulfide	7446-34-6	October 1, 1989
Shale-oils	68308-34-9	April 1, 1990
Silica, crystalline (airborne particles of respirable size)	—	October 1, 1988
Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils)	—	February 27, 1987
Spirodiclofen	148477-71-8	October 8, 2010
Spironolactone	52-01-7	May 1, 1997
Stanozolol	10418-03-8	May 1, 1997
Sterigmatocystin	10048-13-2	April 1, 1988
Streptozotocin (streptozocin)	18883-66-4	January 1, 1988
Strong inorganic acid mists containing sulfuric acid	—	March 14, 2003
Styrene	100-42-5	April 22, 2016
Styrene oxide	96-09-3	October 1, 1988
Sulfallate	95-06-7	January 1, 1988
Sulfasalazine (Salicylazosulfapyridine)	599-79-1	May 15, 1998
Talc containing asbestiform fibers	—	April 1, 1990
Tamoxifen and its salts	10540-29-1	September 1, 1996
Teriparatide	52232-67-4	August 14, 2015
Terrazole	2593-15-9	October 1, 1994

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Testosterone and its esters	58-22-0	April 1, 1988
Tetrabromobisphenol A	79-94-7	October 27, 2017
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	July 24, 2012
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)	1746-01-6	January 1, 1988
1,1,1,2-Tetrachloroethane	630-20-6	September 13, 2013
1,1,2,2-Tetrachloroethane	79-34-5	July 1, 1990
Tetrachloroethylene (Perchloroethylene)	127-18-4	April 1, 1988
p-a,a,a-Tetrachlorotoluene	5216-25-1	January 1, 1990
Tetrachlorvinphos	22248-79-9	May 20, 2016
Tetrafluoroethylene	116-14-3	May 1, 1997
Tetranitromethane	509-14-8	July 1, 1990
Thioacetamide	62-55-5	January 1, 1988
4,4' -Thiodianiline	139-65-1	April 1, 1988
Thiodicarb	59669-26-0	August 20, 1999
Thiouracil	141-90-2	June 11, 2004
Thiourea	62-56-6	January 1, 1988
Thorium dioxide	1314-20-1	February 27, 1987
Titanium dioxide (airborne, unbound particles of respirable size)	—	September 2, 2011
Tobacco, oral use of smokeless products	—	April 1, 1988
Tobacco smoke	—	April 1, 1988
Toluene diisocyanate	26471-62-5	October 1, 1989
ortho-Toluidine	95-53-4	January 1, 1988
ortho-Toluidine hydrochloride	636-21-5	January 1, 1988
<u>para-Toluidine Delisted October 29, 1999</u>	106-49-0	January 1, 1990
Toxaphene (Polychlorinated camphenes)	8001-35-2	January 1, 1988
Toxins derived from <i>Fusarium moniliforme</i> (<i>Fusarium verticillioides</i>)	—	August 7, 2009
Treosulfan	299-75-2	February 27, 1987
Triamterene	396-01-0	April 18, 2014
S,S,S-Tributyl phosphorotrithioate (Tribufos, DEF)	78-48-8	February 25, 2011
Trichlormethine (Trimustine hydrochloride)	817-09-4	January 1, 1992
Trichloroacetic acid	76-03-9	September 13, 2013
Trichloroethylene	79-01-6	April 1, 1988
2,4,6-Trichlorophenol	88-06-2	January 1, 1988
1,2,3-Trichloropropane	96-18-4	October 1, 1992
Trimethyl phosphate	512-56-1	May 1, 1996
2,4,5-Trimethylaniline and its strong acid salts	—	October 24, 1997
2,4,6-Trinitrotoluene (TNT)	118-96-7	December 19, 2008
Triphenyltin hydroxide	76-87-9	July 1, 1992
Tris(aziridiny)l-para-benzoquinone (Triaziquone) <u>Delisted December 8, 2006</u>	68-76-8	October 1, 1989
Tris(1-aziridiny)lphosphine sulfide (Thiotepa)	52-24-4	January 1, 1988
Tris(2-chloroethyl) phosphate	115-96-8	April 1, 1992
Tris(2,3-dibromopropyl)phosphate	126-72-7	January 1, 1988
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	October 28, 2011
Trp-P-1 (Tryptophan-P-1)	62450-06-0	April 1, 1988
Trp-P-2 (Tryptophan-P-2)	62450-07-1	April 1, 1988
Trypan blue (commercial grade)	72-57-1	October 1, 1989
Unleaded gasoline (wholly vaporized)	—	April 1, 1988
Uracil mustard	66-75-1	April 1, 1988
Urethane (Ethyl carbamate)	51-79-6	January 1, 1988

<u>Chemical</u>	<u>CAS Number</u>	<u>Date</u>
Vanadium pentoxide (orthorhombic crystalline form)	1314-62-1	February 11, 2005
Vinclozolin	50471-44-8	August 20, 1999
Vinyl bromide	593-60-2	October 1, 1988
Vinyl chloride	75-01-4	February 27, 1987
4-Vinylcyclohexene	100-40-3	May 1, 1996
4-Vinyl-1-cyclohexene diepoxide (Vinyl cyclohexene dioxide)	106-87-6	July 1, 1990
Vinyl fluoride	75-02-5	May 1, 1997
Vinyl trichloride (1,1,2-Trichloroethane)	79-00-5	October 1, 1990
Wood dust	—	December 18, 2009
2,6-Xylidine (2,6-Dimethylaniline)	87-62-7	January 1, 1991
Zalcitabine	7481-89-2	August 7, 2009
Zidovudine (AZT)	30516-87-1	December 18, 2009
Zileuton	111406-87-2	December 22, 2000
Zineb <u>Delisted October 29, 1999</u>	12122-67-7	January 1, 1990

CHEMICALS KNOWN TO THE STATE TO CAUSE REPRODUCTIVE TOXICITY

<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Abiraterone acetate	developmental, female, male	154229-18-2	April 8, 2016
Acetazolamide	developmental	59-66-5	August 20, 1999
Acetohydroxamic acid	developmental	546-88-3	April 1, 1990
Acrylamide	developmental, male	79-06-1	February 25, 2011
Actinomycin D	developmental	50-76-0	October 1, 1992
All-trans retinoic acid	developmental	302-79-4	January 1, 1989
Alprazolam	developmental	28981-97-7	July 1, 1990
Altretamine	developmental, male	645-05-6	August 20, 1999
Amantadine hydrochloride	developmental	665-66-7	February 27, 2001
Amikacin sulfate	developmental	39831-55-5	July 1, 1990
Aminoglutethimide	developmental	125-84-8	July 1, 1990
tert-Amyl methyl ether <u>Delisted December 13, 2013</u>	developmental	994-05-8	December 18, 2009
Aminoglycosides	developmental	—	October 1, 1992
Aminopterin	developmental, female	54-62-6	July 1, 1987
Amiodarone hydrochloride	developmental, female, male	19774-82-4	August 26, 1997
Amitraz	developmental	33089-61-1	March 30, 1999
Amoxapine	developmental	14028-44-5	May 15, 1998
Anabolic steroids	female, male	—	April 1, 1990
Angiotensin converting enzyme (ACE) inhibitors	developmental	—	October 1, 1992
Anisindione	developmental	117-37-3	October 1, 1992
Arsenic (inorganic oxides)	developmental	—	May 1, 1997
Aspirin (NOTE: It is especially important not to use aspirin during the last three months of pregnancy, unless specifically directed to do so by a physician because it may cause problems in the unborn child or complications during delivery.)	developmental, female	50-78-2	July 1, 1990
Atenolol	developmental	29122-68-7	August 26, 1997
Atrazine	developmental, female	1912-24-9	July 15, 2016
Auranofin	developmental	34031-32-8	January 29, 1999
Avermectin B1 (Abamectin)	developmental	71751-41-2	December 3, 2010
Azathioprine	developmental	446-86-6	September 1, 1996

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<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Barbiturates	developmental	—	October 1, 1992
Beclomethasone dipropionate	developmental	5534-09-8	May 15, 1998
Benomyl	developmental, male	17804-35-2	July 1, 1991
Benzene	developmental, male	71-43-2	December 26, 1997
Benzodiazepines	developmental	—	October 1, 1992
Benzphetamine hydrochloride	developmental	5411-22-3	April 1, 1990
Bischloroethyl nitrosourea (BCNU) (Carmustine)	developmental	154-93-8	July 1, 1990
Bisphenol A (BPA)	female	80-05-7	May 11, 2015
Bisphenol A (BPA) <u>Delisted April 19, 2013</u>	developmental	80-05-7	April 11, 2013
Bromacil lithium salt	developmental	53404-19-6	May 18, 1999
1-Bromopropane	male		January 17, 2003
2-Bromopropane	developmental, female, male	106-94-5	December 7, 2004
Bromoxynil	female, male	75-26-3	May 31, 2005
Bromoxynil octanoate	developmental	1689-84-5	October 1, 1990
Butabarbital sodium	developmental	1689-99-2	May 18, 1999
1,3-Butadiene	developmental	143-81-7	October 1, 1992
1,4-Butanediol dimethane-sulfonate (Busulfan)	developmental, female, male	106-99-0	April 16, 2004
Butyl benzyl phthalate (BBP)	developmental	55-98-1	January 1, 1989
n-Butyl glycidyl ether <u>Delisted April 4, 2014</u>	developmental	85-68-7	December 2, 2005
	male	2426-08-6	August 7, 2009
Cadmium	developmental, male	—	May 1, 1997
Carbamazepine	developmental	298-46-4	January 29, 1999
Carbaryl	developmental, female, male	63-25-2	August 7, 2009
Carbon disulfide	developmental, female, male	75-15-0	July 1, 1989
Carbon monoxide	developmental	630-08-0	July 1, 1989
Carboplatin	developmental	41575-94-4	July 1, 1990
Chenodiol	developmental	474-25-9	April 1, 1990
Chlorambucil	developmental	305-03-3	January 1, 1989
Chlorcyclizine hydrochloride	developmental	1620-21-9	July 1, 1987
Chlordecone (Kepone)	developmental	143-50-0	January 1, 1989
Chlordiazepoxide	developmental	58-25-3	January 1, 1992
Chlordiazepoxide hydrochloride	developmental	438-41-5	January 1, 1992
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (Lomustine)	developmental	13010-47-4	July 1, 1990
Chloroform	developmental	67-66-3	August 7, 2009
2-Chloropropionic acid	male	598-78-7	August 7, 2009
Chlorsulfuron <u>Delisted June 6, 2014</u>	developmental, female, male	64902-72-3	May 14, 1999
Chromium (hexavalent compounds)	developmental, female, male	—	December 19, 2008
Cidofovir	developmental, female, male	113852-37-2	January 29, 1999
Cladribine	developmental	4291-63-8	September 1, 1996
Clarithromycin	developmental	81103-11-9	May 1, 1997
Clobetasol propionate	developmental, female	25122-46-7	May 15, 1998
Clomiphene citrate	developmental	50-41-9	April 1, 1990
Clorazepate dipotassium	developmental	57109-90-7	October 1, 1992
Cocaine	developmental, female	50-36-2	July 1, 1989
Codeine phosphate	developmental	52-28-8	May 15, 1998

<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Colchicine	developmental, male	64-86-8	October 1, 1992
Conjugated estrogens	developmental	—	April 1, 1990
Cyanazine	developmental	21725-46-2	April 1, 1990
Cycloate	developmental	1134-23-2	March 19, 1999
Cyclohexanol	male	108-93-0	November 6, 1998
<u>Delisted January 25, 2002</u>			
Cycloheximide	developmental	66-81-9	January 1, 1989
Cyclophosphamide (anhydrous)	developmental, female, male	50-18-0	January 1, 1989
Cyclophosphamide (hydrated)	developmental, female, male	6055-19-2	January 1, 1989
Cyhexatin	developmental	13121-70-5	January 1, 1989
Cytarabine	developmental	147-94-4	January 1, 1989
Dacarbazine	developmental	4342-03-4	January 29, 1999
Danazol	developmental	17230-88-5	April 1, 1990
Daunorubicin hydrochloride	developmental	23541-50-6	July 1, 1990
2,4-D butyric acid	developmental, male	94-82-6	June 18, 1999
o,p' -DDT	developmental, female, male	789-02-6	May 15, 1998
p,p' -DDT	developmental, female, male	50-29-3	May 15, 1998
Demeclocycline hydrochloride (internal use)	developmental	64-73-3	January 1, 1992
Des-ethyl atrazine (DEA)	developmental, female	6190-65-4	July 15, 2016
Des-isopropyl atrazine (DIA)	developmental, female	1007-28-9	July 15, 2016
2,4-Diamino-6-chloro-s-triazine (DACT)	developmental, female	3397-62-4	July 15, 2016
Diazepam	developmental	439-14-5	January 1, 1992
Diazoxide	developmental	364-98-7	February 27, 2001
1,2-Dibromo-3-chloropropane (DBCP)	male	96-12-8	February 27, 1987
Di-n-butyl phthalate (DBP)	developmental, female, male	84-74-2	December 2, 2005
Dichloroacetic acid	developmental, male	79-43-6	August 7, 2009
1,1-Dichloro-2,2-bis(p-chlorophenyl) ethylene (DDE)	developmental, male	72-55-9	March 30, 2010
Dichlorophene	developmental	97-23-4	April 27, 1999
Dichlorophenamide	developmental	120-97-8	February 27, 2001
Diclofop methyl	developmental	51338-27-3	March 5, 1999
Dicumarol	developmental	66-76-2	October 1, 1992
Di(2-ethylhexyl)phthalate (DEHP)	developmental, male	117-81-7	October 24, 2003
Diethylstilbestrol (DES)	developmental	56-53-1	July 1, 1987
Diflunisal	developmental, female	22494-42-4	January 29, 1999
Diglycidyl ether	male	2238-07-5	August 7, 2009
<u>Delisted April 4, 2014</u>			
Di-n-hexyl phthalate (DnHP)	female, male	84-75-3	December 2, 2005
Dihydroergotamine mesylate	developmental	6190-39-2	May 1, 1997
Di-isodecyl phthalate (DIDP)	developmental	68515-49-1/ 26761-40-0	April 20, 2007
Diltiazem hydrochloride	developmental	33286-22-5	February 27, 2001
N,N-Dimethylacetamide	developmental, male	127-19-5	May 21, 2010
m-Dinitrobenzene	male	99-65-0	July 1, 1990
o-Dinitrobenzene	male	528-29-0	July 1, 1990
p-Dinitrobenzene	male	100-25-4	July 1, 1990
2,4-Dinitrotoluene	male	121-14-2	August 20, 1999
2,6-Dinitrotoluene	male	606-20-2	August 20, 1999

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<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Dinitrotoluene (technical grade)	female, male	—	August 20, 1999
Dinocap	developmental	39300-45-3	April 1, 1990
Dinoseb	developmental, male	88-85-7	January 1, 1989
Diphenylhydantoin (Phenytoin)	developmental	57-41-0	July 1, 1987
Disodium cyanodithioimidocarbonate	developmental	138-93-2	March 30, 1999
Doxorubicin hydrochloride (Adriamycin)	developmental, male	25316-40-9	January 29, 1999
Doxycycline (internal use)	developmental	564-25-0	July 1, 1990
Doxycycline calcium (internal use)	developmental	94088-85-4	January 1, 1992
Doxycycline hyclate (internal use)	developmental	24390-14-5	October 1, 1991
Doxycycline monohydrate (internal use)	developmental	17086-28-1	October 1, 1991
2,4 DP (dichloroprop) <u>Delisted January 25, 2002</u>	developmental	120-36-5	April 27, 1999
Endrin	developmental	72-20-8	May 15, 1998
Environmental tobacco smoke (ETS)	developmental	—	June 9, 2006
Epichlorohydrin	male	106-89-8	September 1, 1996
Ergotamine tartrate	developmental	379-79-3	April 1, 1990
Estropipate	developmental	7280-37-7	August 26, 1997
Ethionamide	developmental	536-33-4	August 26, 1997
Ethyl alcohol in alcoholic beverages	developmental	—	October 1, 1987
Ethyl-tert-butyl ether <u>Delisted December 13, 2013</u>	male	637-92-3	December 18, 2009
Ethyl dipropylthiocarbamate	developmental	759-94-4	April 27, 1999
Ethylene dibromide	developmental, male	106-93-4	May 15, 1998
Ethylene glycol (ingested)	developmental	107-21-1	June 19, 2015
Ethylene glycol monoethyl ether	developmental, male	110-80-5	January 1, 1989
Ethylene glycol monomethyl ether	developmental, male	109-86-4	January 1, 1989
Ethylene glycol monoethyl ether acetate	developmental, male	111-15-9	January 1, 1993
Ethylene glycol monomethyl ether acetate	developmental, male	110-49-6	January 1, 1993
Ethylene oxide	female	75-21-8	February 27, 1987
	developmental, male		August 7, 2009
Ethylene thiourea	developmental	96-45-7	January 1, 1993
2-Ethylhexanoic acid <u>Delisted December 13, 2013</u>	developmental	149-57-5	August 7, 2009
Etodolac	developmental, female	41340-25-4	August 20, 1999
Etoposide	developmental	33419-42-0	July 1, 1990
Etretinate	developmental	54350-48-0	July 1, 1987
Fenoxaprop ethyl	developmental	66441-23-4	March 26, 1999
Filgrastim	developmental	121181-53-1	February 27, 2001
Fluazifop butyl	developmental	69806-50-4	November 6, 1998
Flunisolide	developmental, female	3385-03-3	May 15, 1998
Fluorouracil	developmental	51-21-8	January 1, 1989
Fluoxymesterone	developmental	76-43-7	April 1, 1990
Flurazepam hydrochloride	developmental	1172-18-5	October 1, 1992
Flurbiprofen	developmental, female	5104-49-4	August 20, 1999
HFlutamide	developmental	13311-84-7	July 1, 1990
Fluticasone propionate	developmental	80474-14-2	May 15, 1998
Fluvalinate	developmental	69409-94-5	November 6, 1998

<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Ganciclovir	developmental, male	82410-32-0	August 26, 1997
Ganciclovir sodium	developmental, male	107910-75-8	August 26, 1997
Gemfibrozil	female, male	25812-30-0	August 20, 1999
Goserelin acetate	developmental, female, male	65807-02-5	August 26, 1997
Halazepam	developmental	23092-17-3	July 1, 1990
Halobetasol propionate	developmental	66852-54-8	August 20, 1999
Haloperidol	developmental, female	52-86-8	January 29, 1999
Halothane	developmental	151-67-7	September 1, 1996
Heptachlor	developmental	76-44-8	August 20, 1999
Hexachlorobenzene	developmental	118-74-1	January 1, 1989
Hexafluoroacetone	developmental, male	684-16-2	August 1, 2008
LHexamethylphosphoramide	male	680-31-9	October 1, 1994
2,5-Hexanedione	male	110-13-4	December 4, 2015
Histrelin acetate	developmental	—	May 15, 1998
Hydramethylnon	developmental, male	67485-29-4	March 5, 1999
Hydrogen cyanide (HCN) and cyanide salts (CN salts)	male	—	July 5, 2013
Hydroxyurea	developmental	127-07-1	May 1, 1997
Idarubicin hydrochloride	developmental, male	57852-57-0	August 20, 1999
Ifosfamide	developmental	3778-73-2	July 1, 1990
Iodine-131	developmental	10043-66-0	January 1, 1989
Isotretinoin	developmental	4759-48-2	July 1, 1987
Lead	developmental, female, male	—	February 27, 1987
Leuprolide acetate	developmental, female, male	74381-53-6	August 26, 1997
Levodopa	developmental	59-92-7	January 29, 1999
Levonorgestrel implants	female	797-63-7	May 15, 1998
Linuron	developmental	330-55-2	March 19, 1999
Lithium carbonate	developmental	554-13-2	January 1, 1991
Lithium citrate	developmental	919-16-4	January 1, 1991
Lorazepam	developmental	846-49-1	July 1, 1990
Lovastatin	developmental	75330-75-5	October 1, 1992
Mebendazole	developmental	31431-39-7	August 20, 1999
Medroxyprogesterone acetate	developmental	71-58-9	April 1, 1990
Megestrol acetate	developmental	595-33-5	January 1, 1991
Melphalan	developmental	148-82-3	July 1, 1990
Menotropins	developmental	9002-68-0	April 1, 1990
Meproamate	developmental	57-53-4	January 1, 1992
Mercaptopurine	developmental	6112-76-1	July 1, 1990
Mercury and mercury compounds	developmental	—	July 1, 1990
Methacycline hydrochloride	developmental	3963-95-9	January 1, 1991
Metham sodium	developmental	137-42-8	May 15, 1998
Methanol	developmental	67-56-1	March 16, 2012
Methazole	developmental	20354-26-1	December 1, 1999
Methimazole	developmental	60-56-0	July 1, 1990
Methotrexate	developmental	59-05-2	January 1, 1989
Methotrexate sodium	developmental	15475-56-6	April 1, 1990
Methyl bromide as a structural fumigant	developmental	74-83-9	January 1, 1993
Methyln-n-butyl ketone	developmental	591-78-6	December 4, 2015
	male		August 7, 2009
Methyl chloride	developmental	74-87-3	March 10, 2000
	male		August 7, 2009

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<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Methyl isobutyl ketone (MIBK)	developmental	108-10-1	March 28, 2014
Methyl isocyanate (MIC)	developmental, female	624-83-9	November 12, 2010
Methyl isopropyl ketone <u>Delisted April 4, 2014</u>	developmental	563-80-4	February 17, 2012
Methyl mercury	developmental	—	July 1, 1987
N-Methylpyrrolidone	developmental	872-50-4	June 15, 2001
α -Methyl styrene <u>Delisted April 4, 2014</u>	female	98-83-9	July 29, 2011
Methyltestosterone	developmental	58-18-4	April 1, 1990
Metiram	developmental	9006-42-2	March 30, 1999
Midazolam hydrochloride	developmental	59467-96-8	July 1, 1990
Minocycline hydrochloride (internal use)	developmental	13614-98-7	January 1, 1992
Misoprostol	developmental	59122-46-2	April 1, 1990
Mitoxantrone hydrochloride	developmental	70476-82-3	July 1, 1990
Molinate	developmental, female, male	2212-67-1	December 11, 2009
Myclobutanil	developmental, male	88671-89-0	April 16, 1999
Nabam	developmental	142-59-6	March 30, 1999
Nafarelin acetate	developmental	86220-42-0	April 1, 1990
Neomycin sulfate (internal use)	developmental	1405-10-3	October 1, 1992
Netilmicin sulfate	developmental	56391-57-2	July 1, 1990
Nickel carbonyl	developmental	13463-39-3	September 1, 1996
Nicotine	developmental	54-11-5	April 1, 1990
Nifedipine	developmental, female, male	21829-25-4	January 29, 1999
Nimodipine	developmental	66085-59-4	April 24, 2001
Nitrapyrin	developmental	1929-82-4	March 30, 1999
Nitrobenzene	male	98-95-3	March 30, 2010
Nitrofurantoin	male	67-20-9	April 1, 1991
Nitrogen mustard (Mechlorethamine)	developmental	51-75-2	January 1, 1989
Nitrogen mustard hydrochloride (Mechlorethamine hydrochloride)	developmental	55-86-7	July 1, 1990
Nitrous oxide	developmental, female	10024-97-2	August 1, 2008
Norethisterone (Norethindrone)	developmental	68-22-4	April 1, 1990
Norethisterone acetate (Norethindrone acetate)	developmental	51-98-9	October 1, 1991
Norethisterone (Norethindrone)/ Ethinyl estradiol	developmental	68-22-4/ 57-63-6	April 1, 1990
Norethisterone (Norethindrone)/Mestranol	developmental	68-22-4/ 72-33-3	April 1, 1990
Norgestrel	developmental	6533-00-2	April 1, 1990
Oxadiazon	developmental	19666-30-9	May 15, 1998
Oxazepam	developmental	604-75-1	October 1, 1992
p,p'-Oxybis(benzenesulfonyl hydrazide) <u>Delisted December 13, 2013</u>	developmental	80-51-3	August 7, 2009
Oxydemeton methyl	female, male	301-12-2	November 6, 1998
Oxymetholone	developmental	434-07-1	May 1, 1997
Oxytetracycline (internal use)	developmental	79-57-2	January 1, 1991
Oxytetracycline hydrochloride (internal use)	developmental	2058-46-0	October 1, 1991
Oxythioquinox (Chinomethionat)	developmental	2439-01-2	November 6, 1998

<u>Chemical</u>	<u>Type of Reproductive Toxicity</u>	<u>CAS No.</u>	<u>Date Listed</u>
Paclitaxel	developmental, female, male	33069-62-4	August 26, 1997
Paramethadione	developmental	115-67-3	July 1, 1990
Penicillamine	developmental	52-67-5	January 1, 1991
Pentobarbital sodium	developmental	57-33-0	July 1, 1990
Pentostatin	developmental	53910-25-1	September 1, 1996
Perfluorooctane sulfonate (PFOS)	developmental	1763-23-1	November 10, 2017
Perfluorooctanoic acid (PFOA)	developmental	335-67-1	November 10, 2017
Pertuzumab	developmental	380610-27-5	January 27, 2017
Phenacemide	developmental	63-98-9	July 1, 1990
Phenprocoumon	developmental	435-97-2	October 1, 1992
Phenyl glycidyl ether	male	122-60-1	August 7, 2009
<u>Delisted April 4, 2014</u>			
Phenylphosphine	developmental male	638-21-1	August 7, 2009
Pimozide	developmental, female	2062-78-4	August 20, 1999
Pipobroman	developmental	54-91-1	July 1, 1990
Plicamycin	developmental	18378-89-7	April 1, 1990
Polybrominated biphenyls	developmental	—	October 1, 1994
Polychlorinated biphenyls	developmental	—	January 1, 1991
Potassium dimethyldithiocarbamate	developmental	128-03-0	March 30, 1999
Pravastatin sodium	developmental	81131-70-6	March 3, 2000
Prednisolone sodium phosphate	developmental	125-02-0	August 20, 1999
Procarbazine hydrochloride	developmental	366-70-1	July 1, 1990
Propargite	developmental	2312-35-8	June 15, 1999
Propazine	developmental, female	139-40-2	July 15, 2016
Propylthiouracil	developmental	51-52-5	July 1, 1990
Pyrimethamine	developmental	58-14-0	January 29, 1999
Quazepam	developmental	36735-22-5	August 26, 1997
Quizalofop-ethyl	male	76578-14-8	December 24, 1999
Resmethrin	developmental	10453-86-8	November 6, 1998
Retinol/retinyl esters, when in daily dosages in excess of 10,000 IU, or 3,000 retinol equivalents. (NOTE: Retinol/retinyl esters are required and essential for maintenance of normal reproductive function. The recommended daily level during pregnancy is 8,000 IU.)	developmental	—	July 1, 1989
Ribavirin	developmental male	36791-04-5	April 1, 1990
		36791-04-5	February 27, 2001
Rifampin	developmental, female	13292-46-1	February 27, 2001
Secobarbital sodium	developmental	309-43-3	October 1, 1992
Sermorelin acetate	developmental	—	August 20, 1999
Simazine	developmental, female	122-34-9	July 15, 2016
Sodium dimethyldithiocarbamate	developmental	128-04-1	March 30, 1999
Sodium fluoroacetate	male	62-74-8	November 6, 1998
Streptomycin sulfate	developmental	3810-74-0	January 1, 1991
Streptozocin (streptozotocin)	developmental, female, male	18883-66-4	August 20, 1999
Sulfasalazine (Salicylazosulfapyridine)	male	599-79-1	January 29, 1999
Sulfur dioxide	developmental	7446-09-5	July 29, 2011
Sulindac	developmental, female	38194-50-2	January 29, 1999
Tamoxifen citrate	developmental	54965-24-1	July 1, 1990
Temazepam	developmental	846-50-4	April 1, 1990

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Teniposide	developmental	29767-20-2	September 1, 1996
Terbacil	developmental	5902-51-2	May 18, 1999
Testosterone cypionate	developmental	58-20-8	October 1, 1991
Testosterone enanthate	developmental	315-37-7	April 1, 1990
2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD)	developmental	1746-01-6	April 1, 1991
Tetracycline (internal use)	developmental	60-54-8	October 1, 1991
Tetracyclines (internal use)	developmental	—	October 1, 1992
Tetracycline hydrochloride (internal use)	developmental	64-75-5	January 1, 1991
Thalidomide	developmental	50-35-1	July 1, 1987
Thioguanine	developmental	154-42-7	July 1, 1990
Thiophanate methyl	female, male	23564-05-8	May 18, 1999
Tobacco smoke (primary)	developmental, female, male	—	April 1, 1988
Tobramycin sulfate	developmental	49842-07-1	July 1, 1990
Toluene	developmental female	108-88-3	January 1, 1991 August 7, 2009
Topiramate	developmental	97240-79-4	November 27, 2015
Triadimefon	developmental, female, male	43121-43-3	March 30, 1999
Triazolam	developmental	28911-01-5	April 1, 1990
Tributyltin methacrylate	developmental	2155-70-6	December 1, 1999
Trichloroethylene	developmental, male	79-01-6	January 31, 2014
Trientine hydrochloride	developmental	38260-01-4	February 27, 2001
Triforine	developmental	26644-46-2	June 18, 1999
1,3,5-Triglycidyl-s-triazinetriene <u>Delisted December 13, 2013</u>	male	2451-62-9	August 7, 2009
Trilostane	developmental	13647-35-3	April 1, 1990
Trimethadione	developmental	127-48-0	January 1, 1991
Trimetrexate glucuronate	developmental	82952-64-5	August 26, 1997
Triphenyltin hydroxide	developmental	76-87-9	March 18, 2002
Uracil mustard	developmental, female, male	66-75-1	January 1, 1999
Urethane	developmental	51-79-6	October 1, 1994
Urofollitropin	developmental	97048-13-0	April 1, 1990
Valproate (Valproic acid)	developmental	99-66-1	July 1, 1987
Vinblastine sulfate	developmental	143-67-9	July 1, 1990
Vinclozolin	developmental	50471-44-8	May 15, 1998
Vincristine sulfate	developmental	2068-78-2	July 1, 1990
4-Vinylcyclohexene	female, male	100-40-03	August 7, 2009
Vinyl cyclohexene dioxide (4-Vinyl-1-cyclohexene diepoxide)	female, male	106-87-6	August 1, 2008
Visomodegib	developmental, female, male	879085-55-9	January 27, 2017
Warfarin	developmental	81-81-2	July 1, 1987
Zileuton	developmental, female	111406-87-2	December 22, 2000

Date: November 10, 2017

DECISION NOT TO PROCEED

FAIR EMPLOYMENT AND HOUSING COUNCIL

Pursuant to Government Code Section 11347, the Fair Employment and Housing Council of the Department of Fair Employment and Housing (“Council”) hereby gives notice that it has decided not to proceed with the rulemaking action published in the California Regulatory Notice Register, February 3, 2017 (Register 2017, 5–Z, p. 123). The proposed rulemaking concerned discriminatory effect, discriminatory land use practices, and the use of criminal history information in the housing context.

Any interested person with questions concerning this rulemaking should contact Brian Sperber, Legislative & Regulatory Counsel, by phone at 213–337–4495 or by e–mail at brian.sperber@dfeh.ca.gov.

The Council will also publish this Notice of Decision Not to Proceed on its website at <http://www.dfeh.ca.gov/fehccouncil/>.

FAIR EMPLOYMENT AND HOUSING COUNCIL

Pursuant to Government Code Section 11347, the Fair Employment and Housing Council of the Department of Fair Employment and Housing (“Council”) hereby gives notice that it has decided not to proceed with the rulemaking action published in the California Regulatory Notice Register, November 11, 2016 (Register 2016, 46–Z, p. 1996). The proposed rulemaking concerned, in the context of housing, harassment; liability for harassment; retaliation; and discrimination based on disability, including assistive animals.

Any interested person with questions concerning this rulemaking should contact Brian Sperber, Legislative & Regulatory Counsel, by phone at 213–337–4495 or by e–mail at brian.sperber@dfeh.ca.gov.

The Council will also publish this Notice of Decision Not to Proceed on its website at <http://www.dfeh.ca.gov/fehccouncil/>.

STATE BOARD OF GUIDE DOGS FOR THE BLIND

Pursuant to Government Code Section 11347, the California State Board of Guide Dogs for the Blind hereby gives notice that it has decided not to proceed with the rulemaking action published in the California Regulatory Notice Register on May 12, 2017, Register 2017, No. 19–Z. The proposed rulemaking concerned

Fingerprint requirements (OAL Notice Z2017–0502–03).

Any interested person with questions regarding this rulemaking should contact Brian Skewis at either 916–574–7825, Fax: 916–574–7829, or by email at Brian.Skewis@dca.ca.gov.

SUMMARY OF REGULATORY ACTIONS

REGULATIONS FILED WITH SECRETARY OF STATE

This Summary of Regulatory Actions lists regulations filed with the Secretary of State on the dates indicated. Copies of the regulations may be obtained by contacting the agency or from the Secretary of State, Archives, 1020 O Street, Sacramento, CA 95814, (916) 653–7715. Please have the agency name and the date filed (see below) when making a request.

File# 2017–0919–02
BOARD OF BARBERING AND COSMETOLOGY
 Health and Safety Poster

The Board of Barbering and Cosmetology is amending two sections in title 16 of the California Code of Regulations. These amendments add a document incorporated by reference. This document is a “Message to the Consumer” which must be posted at approved schools and licensed establishments.

Title 16
 AMEND: 904, 905
 Filed 10/31/2017
 Effective 01/01/2018
 Agency Contact: Kevin Flanagan (916) 575–7104

File# 2017–0919–01
BOARD OF FORESTRY AND FIRE PROTECTION
 Rule Alignment #4, 2017

This action without regulatory effect revises multiple sections to correct typos, capitalization and acronyms in title 14 of the California Code of Regulations.

Title 14
 AMEND: 917, 917.2, 917.3, 917.4, 917.5, 917.7, 917.9, 917.10, 917.11, 918, 918.1, 918.4, 918.5, 918.6, 918.7, 918.8, 918.10, 919, 919.1, 919.2, 919.3, 919.4, 919.5, 919.9, 919.10, 919.11, 919.12, 919.16, 920, 921, 921.1, 921.3, 921.4, 921.5, 921.6, 921.7, 921.8, 921.9, 923, 923.1, 923.2, 923.3, 923.4, 923.5, 923.6, 923.7, 923.8, 923.9, 923.9.1, 924, 924.1, 924.2, 924.3, 924.4, 924.5, 925, 925.1, 925.2, 925.3, 925.4, 925.5, 925.6, 925.7, 925.8, 925.9,

925.11, 926, 926.1, 926.2, 926.3, 926.4, 926.5, 926.6, 926.7, 926.8, 926.9, 926.10, 926.11, 926.12, 926.13, 926.14, 926.15, 926.16, 926.17, 926.18, 926.19, 926.23, 926.25, 927, 927.1, 927.2, 927.3, 927.4, 927.5, 927.6, 927.7, 927.8, 927.9, 927.10, 927.11, 927.12, 927.13, 927.14, 927.15, 927.16, 927.17, 928, 928.1, 928.2, 928.3, 928.4, 928.6, 928.7, 929, 929.1, 929.2, 929.3, 929.4, 929.5, 929.6, 929.7, 937.3, 945, 945.1, 945.3, 945.5, 957.4, 961.1, 961.2, 961.3, 961.7, 961.8, 965, 965.1, 965.2, 965.3, 965.4, 965.5, 965.6, 965.7, 965.8, 965.9, 965.10, 1020, 1022, 1022.1, 1022.2, 1022.3, 1022.4, 1022.5, 1023, 1023.1, 1024, 1024.1, 1024.2, 1024.3, 1024.5, 1024.6, 1025, 1026, 1027, 1027.1, 1027.2, 1027.3, 1029, 1030, 1032, 1032.7, 1032.8, 1032.9, 1033, 1034, 1034.2, 1035, 1035.4, 1036.1, 1037, 1037.1, 1037.3, 1037.4, 1037.5, 1037.6, 1037.7, 1037.8, 1037.9, 1037.10, 1037.11, 1038.1, 1038.2, 1038.3, 1039, 1039.1, 1040, 1041, 1042, 1043, 1045, 1050, 1051, 1051.1, 1051.2, 1051.3, 1051.4, 1051.5, 1051.6, 1052, 1052.1, 1052.2, 1052.3, 1052.4, 1052.5, 1053, 1054, 1054.1, 1054.2, 1054.3, 1054.4, 1054.5, 1054.6, 1054.7, 1054.8, 1055, 1055.1, 1055.2, 1055.3, 1055.4, 1055.5, 1055.6, 1056, 1056.1, 1056.2, 1056.3, 1056.4, 1056.5, 1056.6, 1057.1, 1057.2, 1057.5, 1058, 1058.3, 1058.4, 1058.5, 1059, 1060, 1070, 1071, 1072, 1072.1, 1072.3, 1072.4, 1072.5, 1072.6, 1072.7, 1073, 1074, 1074.1, 1075, 1080.1, 1080.2, 1080.3, 1080.4, 1080.5, 1090, 1090.1, 1090.2, 1090.3, 1090.4, 1090.5, 1090.6, 1090.7, 1090.8, 1090.9, 1090.10, 1090.11, 1090.12, 1090.13, 1090.14, 1090.16, 1090.17, 1090.18, 1090.19, 1090.20, 1090.21, 1090.22, 1090.23, 1090.24, 1090.25, 1090.26, 1090.27, 1090.28, 1091.1, 1091.3, 1091.4, 1091.45, 1091.5, 1091.6, 1091.7, 1091.8, 1091.10, 1091.11, 1091.12, 1091.13, 1091.14, 1091.15, 1092, 1092.01, 1092.02, 1092.04, 1092.05, 1092.06, 1092.07, 1092.09, 1092.10, 1092.11, 1092.12, 1092.13, 1092.14, 1092.15, 1092.16, 1092.17, 1092.18, 1092.19, 1092.20, 1092.21, 1092.22, 1092.23, 1092.24, 1092.25, 1092.26, 1092.27, 1092.28, 1092.29, 1092.31, 1092.32, 1093, 1093.1, 1093.2, 1093.3, 1093.4, 1093.6, 1100, 1101, 1102, 1103, 1103.1, 1103.2, 1104, 1104.1, 1104.2, 1104.3, 1105, 1105.1, 1105.3, 1105.4, 1106, 1106.1, 1106.2, 1106.4, 1106.5, 1107, 1108, 1109, 1109.1, 1109.2, 1109.3, 1109.4, 1109.5, 1109.6, 1110, 1115, 1115.1, 1115.2, 1115.3.
 Filed 10/31/2017
 Agency Contact: Matt Dias (916) 653-8007

File# 2017-0926-01
 CALIFORNIA ALTERNATIVE ENERGY AND
 ADVANCED TRANSPORTATION FINANCING
 AUTHORITY

Sales and Use Tax Exclusion Program
 This resubmittal of OAL File No. 2017-0719-01C is a regular rulemaking by the California Alternative Energy and Advanced Transportation Financing Authority that amends sections 10031, 10032, 10033, 10035, and 10036 in title 4 of the California Code of Regulations. These amendments incorporate Recycled Feedstock projects into the existing sales and use tax exclusion program for Alternative Source, Advanced Transportation, and Advanced Manufacturing projects (the "Program"). Additionally, these regulations further clarify and specify the underlying statutes and address "lessons learned" from earlier implementation of the Program.

Title 4
 AMEND: 10031, 10032, 10033, 10035, 10036
 Filed 10/31/2017
 Effective 10/31/2017
 Agency Contact: Ashley Bonnett (916) 651-5100

File# 2017-1016-02
 CALIFORNIA HEALTH BENEFIT EXCHANGE
 Eligibility and Enrollment Process for the Individual
 Exchange

This emergency action was submitted for an eleventh re-adopt of the regulations pursuant to Government Code section 100504(a)(6). These regulations establish the Health Benefit Exchange's policies and procedures for eligibility determination and redetermination, enrollment in qualified health plans, and termination of coverage through the Exchange in the individual Market.

Title 10
 ADOPT: 6408, 6410, 6450, 6452, 6454, 6470, 6472, 6474, 6476, 6478, 6480, 6482, 6484, 6486, 6490, 6492, 6494, 6496, 6498, 6500, 6502, 6504, 6506, 6508, 6510, 6600, 6602, 6604, 6606, 6608, 6610, 6612, 6614, 6616, 6618, 6620, 6622
 Filed 10/26/2017
 Effective 10/26/2017
 Agency Contact: Bahara Hosseini (916) 228-8486

File# 2017-0918-02
 DEPARTMENT OF MOTOR VEHICLES
 Commercial Driver's Licenses

This certificate of compliance action makes permanent the emergency amendments to state commercial

driver license (CDL) regulations, aligning them with federal CDL regulations, which allow CDL applicants to furnish an Employment Authorization Document (EAD) or a federal Customs Arrival/Departure Form I-94 as alternative documentation supporting the application for and issuance of a CDL. (See 49 C.F.R. § 383.71(f).)

Title 13
 AMEND: 26.01, 26.02
 Filed 10/25/2017
 Effective 10/25/2017
 Agency Contact: Randi Calkins (916) 657-8898

File# 2017-0918-01
 DEPARTMENT OF MOTOR VEHICLES
 Annual CPI Fee Adjustment (2018)

This rulemaking action by the Department of Motor Vehicles (DMV) amends the fees in this section based on the annual fee adjustment required by Vehicle Code sections 1678 and 1685. The DMV also makes formatting amendments to this section.

Title 13
 AMEND: 423.00
 Filed 10/30/2017
 Effective 01/01/2018
 Agency Contact: Randi Calkins (916) 657-8898

File# 2017-0918-04
 DEPARTMENT OF PUBLIC HEALTH
 LGBT Training Requirements

This regulatory action amends section 72517 in title 22 of the CCR regarding training requirements. Specifically, the changes prescribe a training program that focuses on preventing and eliminating discrimination based on sexual orientation and gender identity in skilled nursing facilities and congregate living health facilities. The training will be mandatory for all registered nurses, certified nurse assistants, licensed vocational nurses, and physicians and surgeons working in such facilities.

Title 22
 AMEND: 72517
 Filed 10/30/2017
 Effective 10/30/2017
 Agency Contact: Dawn Basciano (916) 440-7367

File# 2017-0915-02
 OCCUPATIONAL SAFETY AND HEALTH
 STANDARDS BOARD
 Reinforcing Steel Concrete Construction and Post-Tensioning Operations

The Occupational Safety and Health Standards Board proposed this action to amend three sections, re-

peal and adopt one section, and repeal one section under title 8 of the California Code of Regulations to provide for safe work practices for the installation and placement of concrete reinforcing steel in conjunction with post-tensioning operations in concrete construction.

Title 8
 ADOPT: 1711
 AMEND: 1712, 1713, 1717
 REPEAL: 1711, 1721
 Filed 10/26/2017
 Effective 01/01/2018
 Agency Contact: Marley Hart (916) 274-5721

File# 2017-0919-03
 OFFICE OF ENVIRONMENTAL HEALTH
 HAZARD ASSESSMENT
 Prop 65 Adoption of Hotel Exposure Warnings

In this rulemaking the Office of Environmental Health Hazard Assessment adopts two new sections to provide hotels with methods of transmission and the content of warnings deemed to be compliant with the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

Title 27
 ADOPT: 25607.32, 25607.33
 Filed 10/30/2017
 Effective 08/30/2018
 Agency Contact: Monet Vela (916) 323-2517

File# 2017-0919-04
 OFFICE OF ENVIRONMENTAL HEALTH
 HAZARD ASSESSMENT
 Proposition 65 Amendments to Section 27000

This action by the Office of Environmental Health Hazard Assessment amends section 27000, in title 27 of the California Code of Regulations to incorporate 2016 amendments to the federal Toxic Substances Control Act.

Title 27
 AMEND: 27000
 Filed 10/30/2017
 Effective 01/01/2018
 Agency Contact: Monet Vela (916) 323-2517

File# 2017-0914-02
 PUBLIC EMPLOYEES' RETIREMENT SYSTEM
 Pensionable Compensation

This regulatory action by the California Public Employees Retirement System (CalPERS) adds section 571.1 to title 2 of the California Code of Regulations. This section is adopted to clarify what CalPERS considers to be "pensionable compensation" for new members under the California Public Employees' Pension Reform Act (PEPRA) of 2013.

Title 2
 ADOPT: 571.1
 Filed 10/26/2017
 Effective 10/26/2017
 Agency Contact: Anthony Martin (916) 795-9347

File# 2017-0920-04
 STATE ATHLETIC COMMISSION
 Headgear; Under 18

This action by the California State Athletic Commission aligns regulatory language with the language in Business and Professions Code section 18766 that requires amateur kickboxing and martial arts fighters under the age of 18 to wear headgear during a context or match.

Title 4
 AMEND: 711
 Filed 10/31/2017
 Agency Contact: Heather Jackson (916) 263-2195

**CCR CHANGES FILED
 WITH THE SECRETARY OF STATE
 WITHIN May 31, 2017 TO
 November 1, 2017**

All regulatory actions filed by OAL during this period are listed below by California Code of Regulations titles, then by date filed with the Secretary of State, with the Manual of Policies and Procedures changes adopted by the Department of Social Services listed last. For further information on a particular file, contact the person listed in the Summary of Regulatory Actions section of the Notice Register published on the first Friday more than nine days after the date filed.

Title 2

10/26/17 ADOPT: 571.1
 10/23/17 AMEND: 11024
 10/23/17 AMEND: 59740
 10/10/17 AMEND: 10500
 10/09/17 AMEND: 59780
 10/04/17 ADOPT: 280, 547.50, 547.51, 547.52, 547.53, 547.54, 547.55, 547.55.1, 547.55.2, 547.56, 547.57, 547.57.1, 547.52.2, 547.57.3, 547.57.4, 547.58, 547.58.1, 547.58.2, 547.58.3, 547.58.4, 547.58.5, 547.58.6, 547.58.7, 547.58.8, 547.58.9 AMEND: 281, 282 REPEAL: 547.50, 547.51, 547.52, 547.53, 547.54, 547.55, 547.56, 547.57
 09/22/17 AMEND: 1859.2, 1859.81
 09/21/17 AMEND: 59620
 09/20/17 ADOPT: 1859.90.5 AMEND: 1859.2, 1859.90, 1859.90.2, 1859.90.4

08/31/17 AMEND: 10000, 10001, 10002, 10005, 10007, 10008, 10009, 10010, 10011, 10015, 10017, 10021, 10022, 10025, 10026, 10030, 10031, 10033, 10035, 10038, 10039, 10041, 10042, 10044, 10046, 10049, 10050, 10051, 10053, 10054, 10057, 10063, 10065
 08/30/17 AMEND: 59590
 08/16/17 AMEND: 604
 08/14/17 AMEND: 11034
 08/14/17 ADOPT: 2298.1, 2298.2, 2298.3, 2298.4, 2298.5, 2298.6, 2298.7, 2298.8, 2298.9, 2298.9.1 REPEAL: 2297.1, 2298
 08/10/17 AMEND: 1897
 07/25/17 AMEND: 57700
 07/12/17 ADOPT: 20060, 20061, 20062, 20063, 20064, 20065, 20066, 20067
 07/01/17 ADOPT: 171, 171.2, 174, 193.1, 193.2, 194, 195, 195.1, 195.2, 195.3, 242, 249.1, 249.2, 249.3, 249.4, 249.5, 249.6, 249.7, 250, 250.2, 265, 265.1, 548.53 AMEND: 156, 171.1, 174, 193, 258, 548.40, 548.41 REPEAL: 157, 171, 194, 195, 196, 198, 199, 199.1, 200, 205, 206, 210, 250, 265, 548.70
 06/22/17 AMEND: 327
 06/21/17 AMEND: 3700
 06/19/17 AMEND: 1859.2, 1859.82
 06/08/17 AMEND: 52.4, 548.49, 548.136
 05/31/17 ADOPT: 249.8

Title 3

10/23/17 AMEND: 3435(b)
 10/16/17 AMEND: 3591.15
 10/16/17 AMEND: 3439(b)
 09/28/17 AMEND: 3439(b)
 09/28/17 AMEND: 3435(b)
 09/27/17 AMEND: 3435(b)
 09/21/17 AMEND: 1430.142
 09/19/17 AMEND: 3406(c), 3591.5(b)
 09/14/17 AMEND: 3439
 09/12/17 AMEND: 3435(b)
 09/07/17 AMEND: 3435(b)
 09/05/17 AMEND: 3435(b)
 09/05/17 AMEND: 3435(b)
 08/31/17 AMEND: 3439(b)
 08/30/17 AMEND: 2320.1
 08/22/17 AMEND: 3439
 08/17/17 AMEND: 3435(b)
 08/16/17 AMEND: 3435(b)
 08/16/17 AMEND: 3439(b)
 08/11/17 AMEND: 3439(b)
 08/10/17 AMEND: 3435(b)
 08/08/17 AMEND: 3854, 3855
 08/03/17 AMEND: 3435(b)

07/31/17	AMEND: 3435(d)	08/24/17	AMEND: 10170.3, 10170.4, 10170.8, 10170.9, 10170.10, 10170.14
07/26/17	AMEND: 3439(b)	08/07/17	ADOPT: 8078.22, 8078.23, 8078.24, 8078.25, 8078.26, 8078.27, 8078.28, 8078.29, 8078.30, 8078.31, 8078.32, 8078.33, 8078.34, 8078.35 AMEND: 8070, 8071, 8072, 8073, 8074, 8076, 8078.3 REPEAL: 8078.1, 8078.2
07/25/17	AMEND: 3591.12, 3424(c)	07/26/17	ADOPT: 7033.1 AMEND: 7030, 7033, 7034, 7035, 7037, 7040, 7042, 7045
07/24/17	AMEND: 3435(b)	07/26/17	AMEND: 1581, 1843
07/20/17	AMEND: 3435(b)	07/26/17	ADOPT: 8078.15, 8078.16, 8078.17, 8078.18, 8078.19, 8078.20, 8078.21
07/17/17	AMEND: 3435(b)	07/18/17	ADOPT: 610
07/12/17	ADOPT: 6190	07/12/17	ADOPT: 299 AMEND: 297, 300
07/10/17	AMEND: 3435(b)	07/12/17	AMEND: 10325.5
07/06/17	AMEND: 3439(b)	06/20/17	AMEND: 1696
07/06/17	AMEND: 3439(b)	06/01/17	AMEND: 1433, 1845
07/06/17	AMEND: 3435(b)	05/31/17	AMEND: 1632
06/28/17	AMEND: 1358.7		
06/26/17	AMEND: 3435(b)		
06/22/17	ADOPT: 2320.5 AMEND: 2300, 2300.1, 2303, 2304, 2307, 2308, 2312, 2315, 2319, 2320.1, 2320.2, 2322, 2323, 2324		
06/19/17	AMEND: 3435(b)		
06/14/17	AMEND: 3435(b)		
06/08/17	AMEND: 3435(b)		
06/07/17	AMEND: 3435(b)		
06/05/17	ADOPT: 3591.28		
06/02/17	AMEND: 3435(d)		
06/01/17	AMEND: 3591.12		
		Title 5	
		10/18/17	AMEND: 851, 853.5, 853.7, 855, 856
		09/12/17	AMEND: 18117, 18246
		09/01/17	AMEND: 40756.1, 40805.1
		09/01/17	AMEND: 40500
		08/31/17	REPEAL: 40530, 40531, 40532
		08/31/17	ADOPT: 40050.4, 40517, 40518, 41023
		08/22/17	AMEND: 27300, 27301, 27400, 27401, 27600, 27601, 27602
		08/17/17	AMEND: 19810
		08/10/17	AMEND: 76000, 76020, 76210, 76130, 76200, 76210, 76212, 76215
		07/18/17	AMEND: 851, 853.5, 853.7, 855, 856
		06/27/17	REPEAL: 13075, 13075.1, 13075.2, 13075.3, 13075.4, 13075.5, 13075.6, 13075.7, 13075.8, 13075.9
		06/26/17	AMEND: 19810
		06/14/17	AMEND: 41908
		06/05/17	ADOPT: 11517.6, 11518, 11518.5, 11518.10, 11518.15, 11518.20, 11518.25, 11518.30, 11518.35, 11518.40, 11518.45, 11518.50, 11518.55, 11518.60, 11518.65, 11518.70, 11518.75, 11518.80, 11519, 11519.5
		06/02/17	ADOPT: 11534.1 AMEND: 11530, 11533, 11534
		Title 8	
		10/26/17	ADOPT: 1711 AMEND: 1712, 1713, 1717 REPEAL: 1711, 1721
		10/09/17	AMEND: 1646(a)
		10/02/17	ADOPT: 1535.1, 5205, 8359.1 AMEND: 5155
		09/28/17	ADOPT: 9788.1, 9788.2, 9788.3, 9788.4
		09/27/17	AMEND: 5191(b)
Title 4			
10/31/17	AMEND: 711		
10/31/17	AMEND: 10031, 10032, 10033, 10035, 10036		
10/18/17	ADOPT: 12250, 12260, 12261, 12262, 12263, 12264, 12285, 12287, 12290 AMEND: 12003, 12200, 12200.7, 12200.9, 12200.10A, 12200.11, 12200.18, 12220, 12220.18, 12560, 12562 REPEAL: 12200.13, 12200.16, 12200.21, 12220.13, 12220.16, 12220.21		
10/13/17	ADOPT: 5145, 5146, 5233 AMEND: 5000, 5020, 5031, 5033, 5050, 5051, 5054, 5061, 5062, 5063, 5106, 5144, 5170, 5191, 5192, 5194, 5200, 5220, 5230, 5240, 5250, 5255, 5258, 5260, 5300, 5342, 5350, 5370, 5400, 5450, 5560, 5600 REPEAL: 5221		
10/09/17	ADOPT: 5700, 5710, 5711, 5720, 5721, 5722, 5730, 5731 AMEND: 5000, 5020, 5100		
10/05/17	AMEND: 1632		
09/07/17	AMEND: 12101, 12200, 12200.6, 12200.9, 12200.13, 12202, 12220.6, 12222, 12309, 12342, 12354, 12359, 12464, 12465, Appendix A to Chapter 7 of Division 18, 12492		
09/05/17	AMEND: 10091.1, 10091.2, 10091.3, 10091.4, 10091.5, 10091.6, 10091.7, 10091.8, 10091.9, 10091.10, 10091.12, 10091.14, 10091.15		

09/26/17 AMEND: 5189.1(t)(2)
 09/14/17 AMEND: 336
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06/27/17 AMEND: 1300.67.005

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07/17/17 ADOPT: 31-137

06/19/17 AMEND: 40-188, 44-207, 44-316,
44-318, 80-310, 82-518, 82-812

REPEAL: 44-314