

PUBLIC SCOPING MEETINGS

PROGRAMMATIC ENVIRONMENTAL IMPACT REPORT (PEIR) COASTAL MARINE AQUACULTURE PROGRAM

APRIL 10, 2018 - SANTA ROSA CA

APRIL 12, 2018 - SAN DIEGO CA



FISH AND GAME COMMISSION

DEPARTMENT FISH AND WILDLIFE



SCOPING MEETING AGENDA

- **WELCOME – INTRODUCTIONS – AGENDA**
- **CEQA PROCESS & LEAD AGENCY ROLE**
- **AQUACULTURE IN CALIFORNIA**
- **SENATE BILL 201**
- **PROGRAM OVERVIEW**
- **ANALYSIS SCOPE AND ISSUES TO BE ADDRESSED**
- **CERTIFICATION AND PROJECT APPROVAL PROCESS**
- **PUBLIC TESTIMONY / COMMENTS**



CEQA

CALIFORNIA ENVIRONMENTAL QUALITY ACT

- **REQUIRES CONSIDERATION OF PHYSICAL ENVIRONMENTAL EFFECTS**
- **APPLIES TO DISCRETIONARY DECISIONS BY PUBLIC AGENCIES**

**FISH & GAME COMMISSION'S DISCRETIONARY DECISIONS: AQUACULTURE LEASES AND REGULATION OF AQUACULTURE.
LEAD AGENCY: LEASE FIRST**



PURPOSE OF SCOPING MEETING

- **PROVIDE INFORMATION ON THE ELEMENTS OF THE MARINE AQUACULTURE PROGRAM (PROJECT) AND ISSUES TO BE EVALUATED IN THE PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR)**
- **RECEIVE PUBLIC AND AGENCY COMMENTS ON WHAT SHOULD BE ADDRESSED IN THE PEIR**



AQUACULTURE DEFINED:

Aquaculture

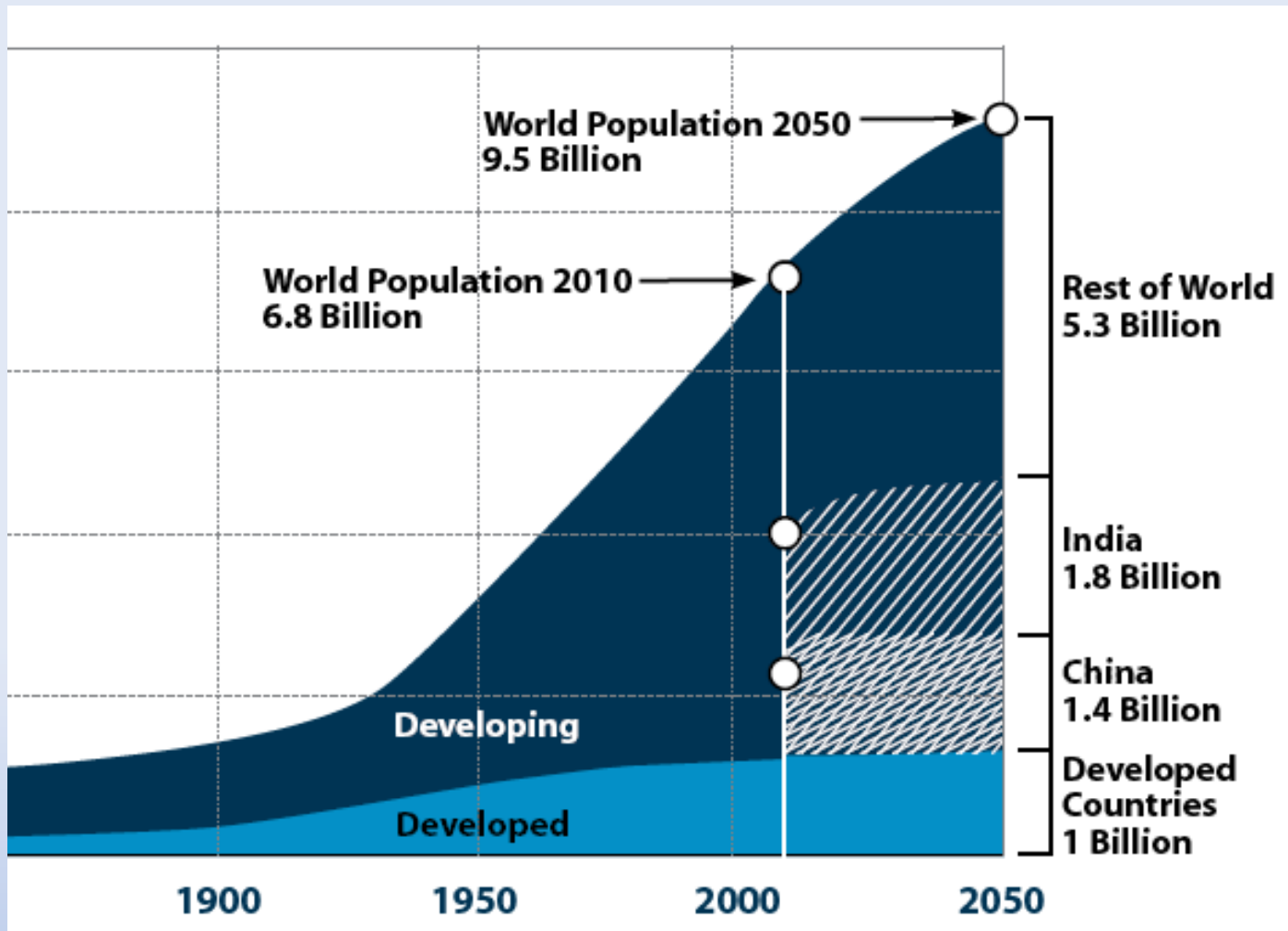
the farming of aquatic organisms

(eg: fish, molluscs, crustaceans, aquatic plants, & algae)

Mariculture

aquaculture in marine waters

GLOBAL FOOD:



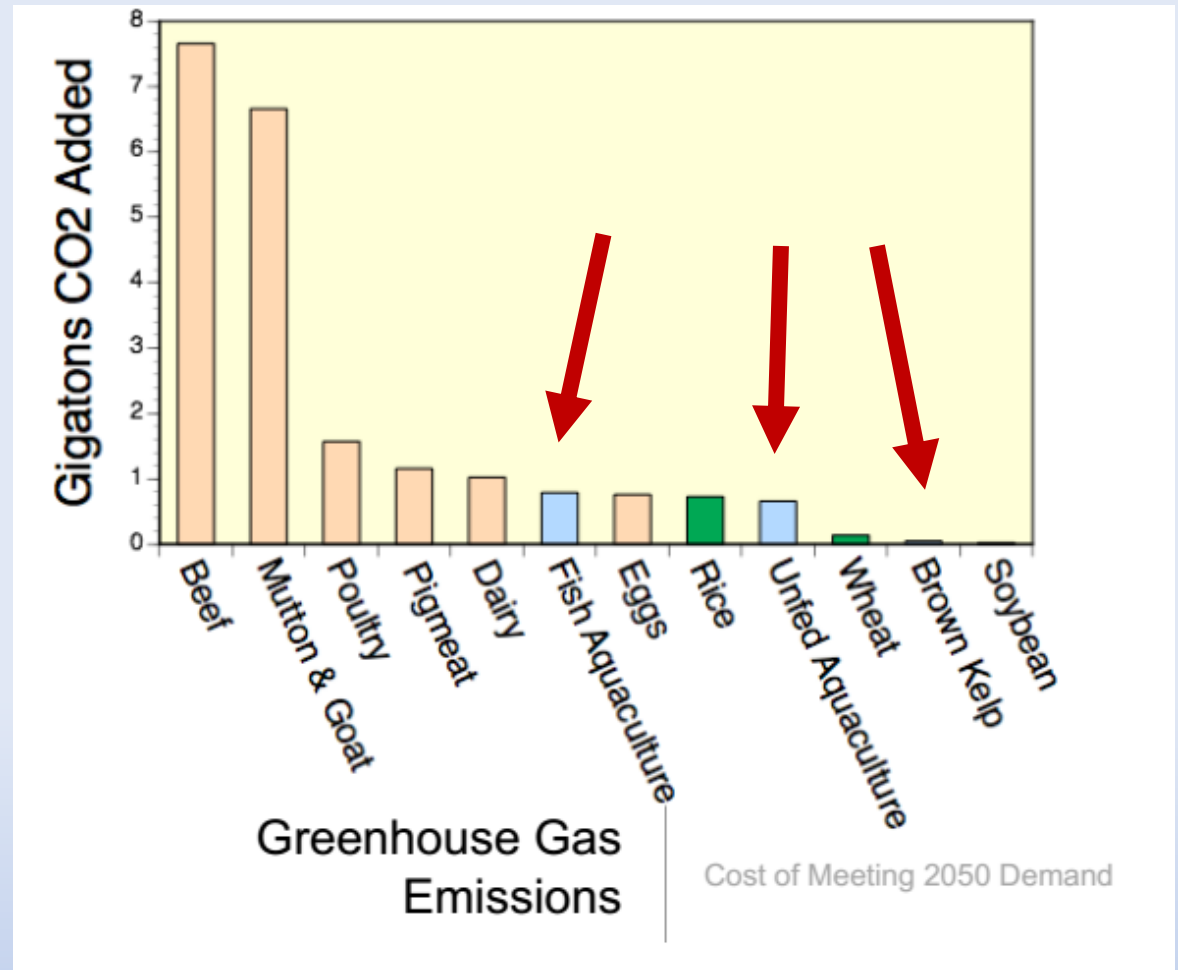
**WORLD
POPULATION
BY 2050:
~ 9.5
BILLION**

**INCLUDING
INCREASINGLY
AFFLUENCE
MIDDLE CLASS**

MORE FOOD NEXT 32 YRS THAN LAST 8000 !

How Would You Prioritize Food Production Resources ?

GHG Emissions

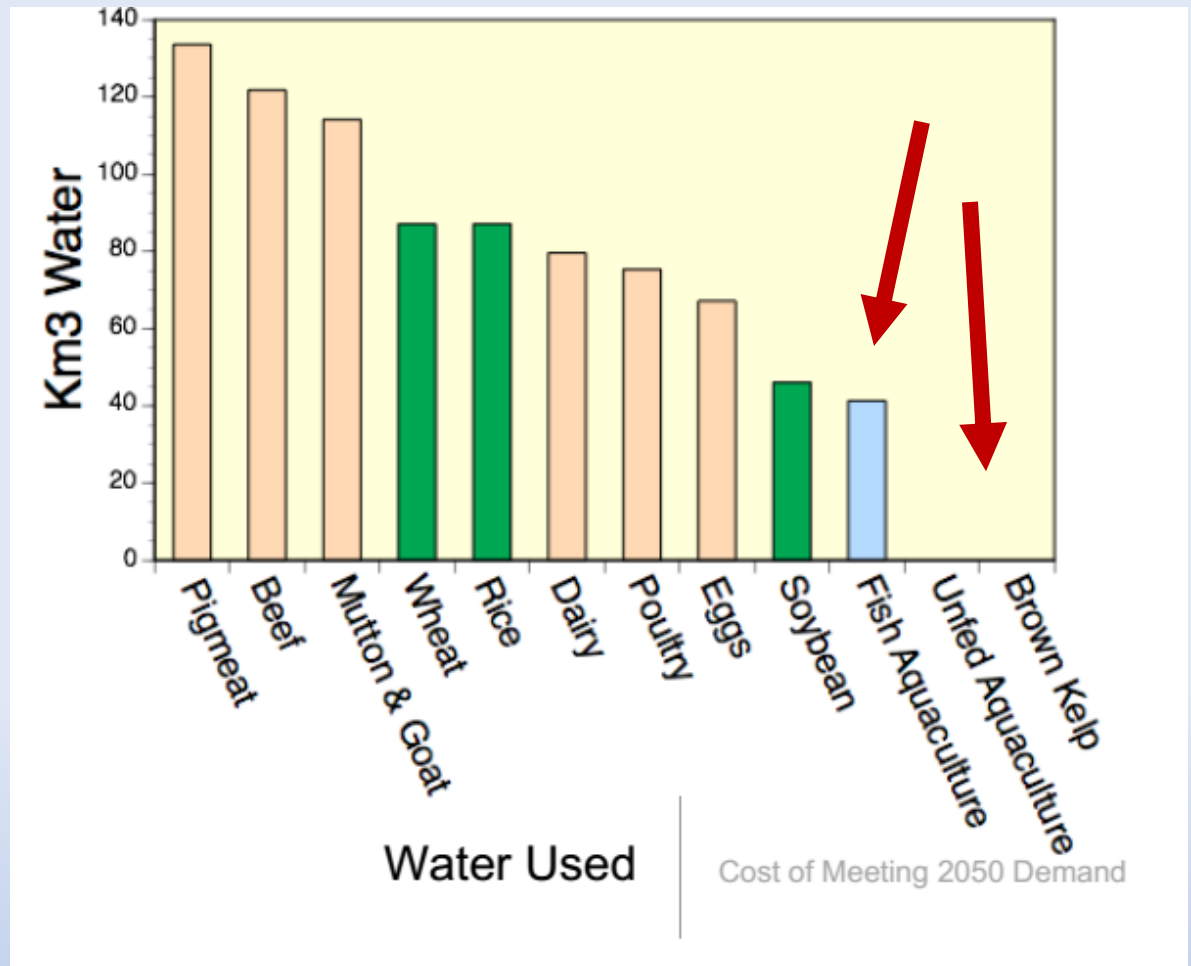


- Dr. Steve Gaines, UCSB Bren School

How Would You Prioritize Food Production Resources ?

GHG Emissions

Water Use



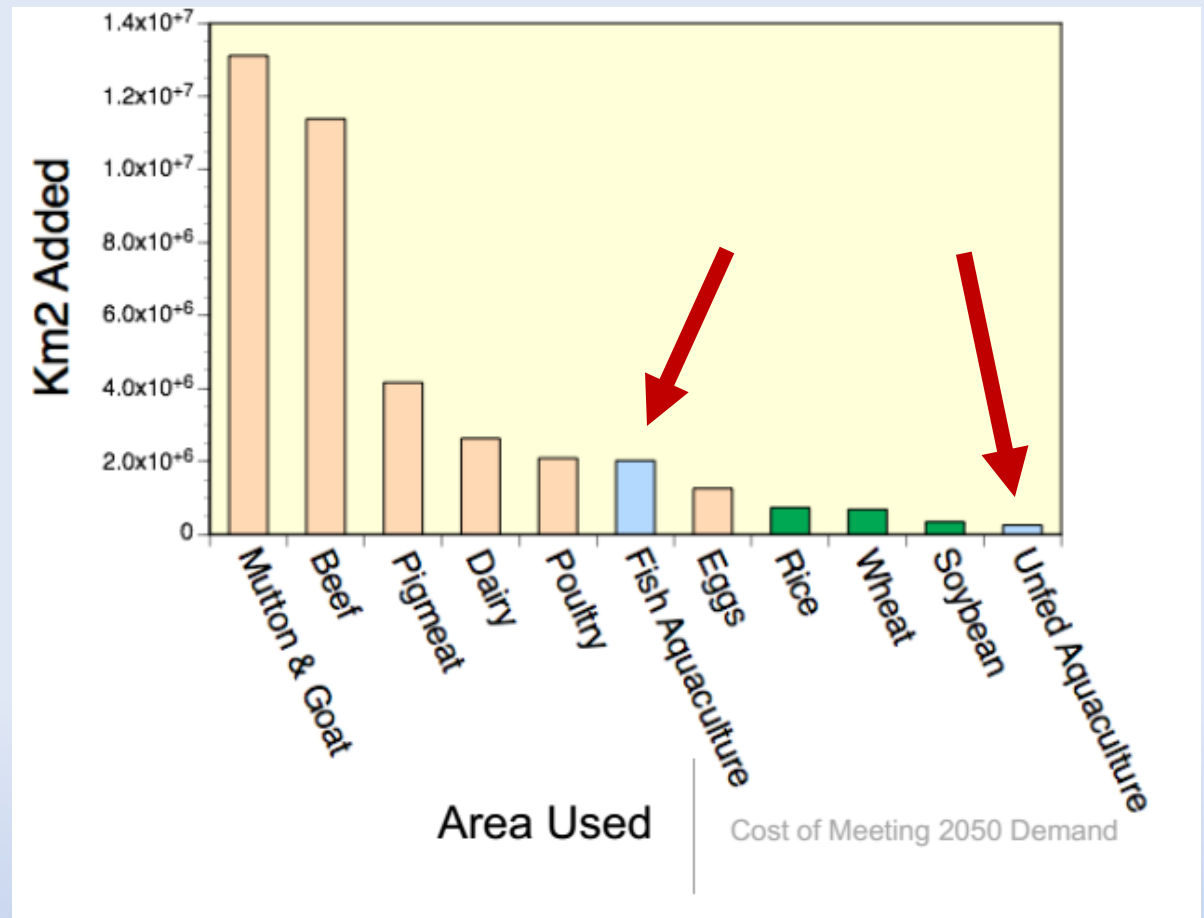
- Dr. Steve Gaines, UCSB Bren School

How Would You Prioritize Food Production Resources ?

GHG Emissions

Water Use

Land Use



- Dr. Steve Gaines, UCSB Bren School

AQUACULTURE:

FASTEST GROWING FOOD PRODUCING SECTOR

GLOBAL PRODUCTION HAS SURPASSED BEEF

MANY ADVANTAGES:

EFFICIENT FEED CONVERSION:

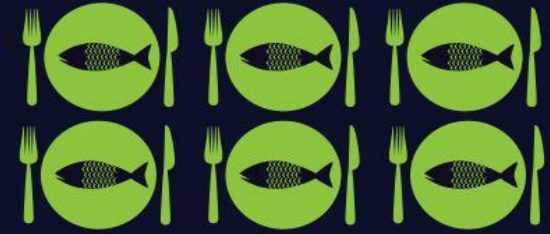
COLD BLOODED – ZERO GRAVITY

BIVALVE SHELLFISH: NO ADDED FEED (FILTER)

FINFISH: MORE EFFICIENT THAN
TERRESTRIAL LIVESTOCK

EFFICIENT WATER USE

DID YOU KNOW?
The same amount of feed produces...



6 lbs. of fish

OR



4 lbs. of poultry

OR



2 lbs. of pork

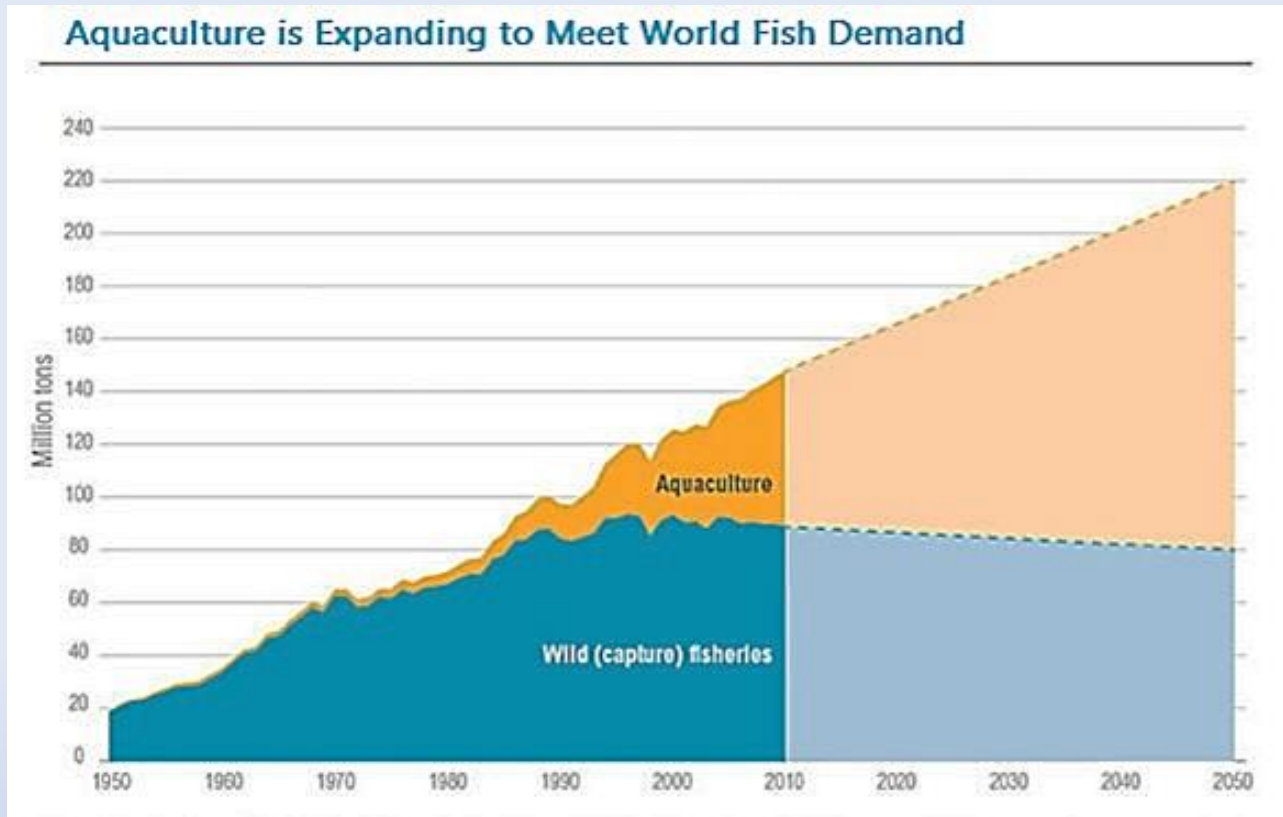
OR



1 lb. of beef



SEAFOOD SUPPLY:



Source: World Resources Institute

**HALF OF WORLD'S SEAFOOD IS NOW FARM-RAISED
BUT LITTLE PRODUCED IN US (OVER 90% IS IMPORTED)**

CALIFORNIA SEAFOOD:

CA POPULATION: **~40M PEOPLE**
@ 15+ LBS / PERSON (US ANN. PER CAPITA AVG)

= ~ 600M LBS SEAFOOD / YR
CONSUMED IN CALIFORNIA

TOTAL COMMERCIAL FISHERY LANDINGS INTO CA (2016):
~ 167M LBS (WORTH \$200M)
VS: 358M LBS (WORTH \$235M IN 2014)

USDA DIETARY GUIDELINES:

EAT MORE SEAFOOD (IT'S HEALTHY)

SEAFOOD DEMAND FAR EXCEEDS LOCAL SUPPLY



Senate Bill (SB) 201

SUSTAINABLE OCEANS ACT OF 2006

FISH AND GAME CODE §15008 AND 15400

LEASING OF CA MARINE WATERS FOR FINFISH AQUACULTURE:

- **EVALUATE POTENTIAL ENVIRONMENTAL EFFECTS OF MARINE AQUACULTURE THROUGH A PROGRAMMATIC ENVIRONMENTAL IMPACT REPORT (PEIR)**
- **ESTABLISHES REQUIREMENTS FOR FINFISH AQUACULTURE LEASES**



Senate Bill (SB) 201

REQUIREMENTS

- **OPERATIONS MUST NOT UNREASONABLY**
 - INTERFERE WITH FISHING OR OTHER USES OF OCEAN
 - DISRUPT WILDLIFE AND MARINE HABITATS
 - HARM ENVIRONMENT'S ABILITY TO SUPPORT
“ECOLOGICALLY SIGNIFICANT FLORA AND FAUNA”
- **MINIMIZE USE OF FISHMEAL AND FISH OIL**
- **SITE-SPECIFIC BMPs**
- **MINIMIZE USE OF FISHMEAL AND FISH OIL**
- **IDENTIFICATION OF FARMED FISH (TAG, MARKER, ETC)**

Senate Bill (SB) 201

ENFORCEMENT

- **FISH AND GAME COMMISSION MAY TAKE ACTION TO PREVENT DAMAGE TO THE MARINE ENVIRONMENT, INCLUDING:**
- **REMOVAL OF FISH STOCK**
- **FACILITY CLOSURE**
- **LEASE TERMINATION**

Fish and Game Code §15400



Senate Bill (SB) 201

LEASE CONDITIONS

- **INITIAL TERM OF LEASE IS 10 YEARS**
- **LEASES MAY BE RENEWED OR AWARDED TO HIGHEST RESPONSIBLE BIDDER**
- **ALL STRUCTURES MUST BE REMOVED AND SITE RESTORED UPON TERMINATION**

Fish and Game Code §15400 et seq.



CEQA Process

- **NOTICE OF PREPARATION**
 - **30-DAY PUBLIC REVIEW PERIOD**
 - **INITIALLY ISSUED IN FEBRUARY 2007**
 - **REISSUED DUE TO ELAPSED TIME BETWEEN 2007 & NOW**
 - **AVAILABLE FOR 30 DAYS**
- **SCOPING MEETINGS**
 - **SONOMA (APRIL 10)**
 - **SAN DIEGO (APRIL 12)**



CEQA Process

- **DRAFT EIR**
 - 45-DAY PUBLIC REVIEW PERIOD
- **PUBLIC MEETING(S)**
 - LIKE SCOPING MEETINGS BUT FOCUSED ON ANALYSIS PRESENTED IN DRAFT EIR
- **FINAL EIR**
- **PROJECT DECISION BY FISH AND GAME COMMISSION**
 - CERTIFICATION OF FINAL EIR



Scope of EIR

PEIR will evaluate potential impacts related to:

Aesthetics

Agricultural Resources

Air Quality

Biological Resources

Cultural, Historic, and Tribal

Cultural Resources

Geology and Mineral

Resources

Greenhouse Gas Emissions

Hazardous Materials

Hydrology and Water Quality

Land Use

Noise

Public Health

Public Services and Utilities

Recreation

Transportation and Traffic

(inc. marine navigation)

CEQA Process and Schedule

- **NOP Circulated** **March 30, 2018**
- **Scoping Meeting** **April 10 & 12, 2018**
- **DEIR Prepared** **Fall 2018**
- **FEIR Prepared** **Winter 2018**
- **EIR Certification** **Following FEIR**



Why are we here?

Opportunity for the public and governmental entities to provide feedback on scope & content of the PEIR.

- **Scope of important environmental issues;**
- **Potential environmental protection measures;**
- **Similar studies relevant to the proposed program;**
- **Characterization of the existing environment;**
- **Resources that may be cumulatively affected**



Public Input:

- **Verbal comments may be offered**

In order for your comments to become part of the record, please write your comments down on comment sheet(s) provided

- **Provide name/address on comment sheet(s)**
- **Focus comments on environmental issues**



SB20 I

- It was pointed out that **SB20 I** specified certain concerns to be addressed. Subsequently, these concerns were addressed in Fish and Game Code.
- Open the hyperlinks below to review the codes:

[**FGC 15008**](#)

[**FGC 15400**](#)



WE WANT TO HEAR FROM YOU. THANK YOU !

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