This Calendar Hem No. 22
was applicated as Minute Item
No. 22 by the State Lands
Commission by a vote of 3
O at its 9/27/89
meeting.

CALENDAR ITEM

A 74

22

09/27/89

S 38

W 24262 PRC 7347

Townsend

APPROVAL OF GENERAL LEASE - PUBLIC AGENCY USE

APPLICANT:

California Department of Fish and Game

Attn: John Grant 330 Golden Shore, #50

Long Beach, California 90802

AREA, TYPE LAND AND LOCATION:

A 93.572—acre parcel of sovereign tide and submerged land located in the Pacific Ocean offshore Batiquitos Lagoon, San Diego County.

LAND USE:

Installation and maintenance of an artificial

fishing reef.

TERMS OF PROPOSED LEASE:

Initial period: 20 years beginning October 1,

1989.

CONSIDERATION: The public use and benefit; with the State

reserving the right at any time to set a monetary rental if the Commission finds such action to be in the State's best interest.

BASIS FOR CONSIDERATION:

P rsuant to 2 Cal. Code Regs. 2003.

PREREQUISITE CONDITIONS, FEES AND EXPENSES:

Filing and processing costs have been received.

The Colondor them No. 22
Was approved as Minute Item
No. 22 by the State Lands

CALENDAR ITEM NO. 22 (CONT'D)

STATUTORY AND OTHER REFERENCES:

A. P.R.C.: Div. 6, Parts 1 and 2; Div. 13.

B. Cal. Code Regs.: Title 2, Div. 3; Title 14, Div. 6.

AB 884:

Property of the

12/10/89.

OTHER PERTINENT INFORMATION:

The California Department of Fish and Game (Department) has filed an application with staff of the Commission for a General Permit - Public Agency Use, to build a 10,000 ton quarry rock fishing reef off the coast of Carlsbad. The Department believes the reef will increase the local sportfish catch and allow the Department to further refine its knowledge of the relationships between some sportfish species and artificial reefs. The Department indicates that the Carlsbad area is unique in that it offers an opportunity to investigate the interaction between reef construction and near shore sportfish populations in addition to providing expected fishery benefits.

The artificial reef proposed for Carlsbad will consist of a series of rock piles, or modules, which will form four lines perpendicular to shore. Large rocks will be used to build half of the modules, small rocks will be used on the other. The proposed lease to the Department provides that construction shall begin by October 1, 1989 and be completed by October 1, 1990.

In addition, the proposed lease provides for the following:

A. Prior to commence of construction of the authorized improvements, the Department of Fish and Game agrees to provide to the staff of the Commission, for its review and approval, an installation plan for the artificial reef which describes the equipment to be used, methods of installation, time required for installation, timing of

3508

CALENDAR ITEM NO. 22 (CONT.LD)

installation, methodology to be used to ensure accurate placement, configuration, and composition of the proposed reef components.

Department of fish and Game shall submit to the Commission, within six months of the date of this lease, a Monitoring Plan that will describe the following:

- a, the purpose(s) and objective(s)
 for the reef;
- b. how the reef is designed to meet the purposes and objectives described in (a);
- c. how this reef differs from other reefs installed by the Department;
- d. how the Department will monitor and evaluate the effectiveness of the reef in meeting the purposes and objectives described in (a); and
- e. a time schedule for monitoring, evaluating, and reporting on the effectiveness of the reef.

The Department shall submit all formal reports to the Commission. The Commission shall be advised of and have access on demand to all field notes, survey data, and any other information collected for the above Monitoring Plan or during the administration of the Department's Artificial Reef Program.

C. The Department agrees to provide an "as built" survey of the artificial reef to the staff of the Commission upon completion of construction and shall include the depth from the highest point of the reef at the lowest low water.

CALENDAR-ITEM NO. 221 (CONTID)

ted of or yee obot.

- 2. The annual rental value of the site is estimated to be \$846.
- This activity involves lands which have NOT been identified as possessing significant environmental values pursuant to P.R.C. 6370, et seq. However, the Commission has declared that all tide and submerged lands are "significant" by nature of their public ownership (as opposed to "environmental significant"). Since such declaration of significance is not based upon the requirements and criteria of P.R.C. 6370, et seq., use classifications for such lands have not been designated. Therefore, the finding of the project's consistency with the use classification as required by 2 Cal. Code Regs. 2954 is not applicable.
- 4. A Negative Declaration was prepared and adopted for this project by the California Department of Fish and Game. The State Lands Commission's staff has reviewed such document and believes that it complies with the requirements of the CEQA.

APPROVALS OBTAINED:

None.

FURTHER APPROVALS REQUIRED:

United States Army Corps of Engineers and California Coastal Commission.

EXHIBITS:

A. Land Description.

B. Location Map.

C. Negative Declaration

IT IS RECOMMENDED THAT THE COMMISSION:

1. FIND THAT A NEGATIVE DECLARATION WAS PREPARED AND ADOPTED FOR THIS PROJECT BY THE CALIFORNIA DEPARTMENT OF FISH AND GAME AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.

CALENDAR ITEM NO. 22 (CONT'D)

- 2. DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
- 3. AUTHORIZE ISSUANCE TO THE CALIFORNIA DEPARTMENT OF FISH AND GAME OF A 20-YEAR GENERAL LEASE PUBLIC AGENCY USE, ON FILE IN THE SACRAMENTO OFFICE OF THE STATE LANDS COMMISSION, BEGINNING OCTOBER 1, 1989; IN CONSIDERATION OF THE PUBLIC USE AND BENEFIT, WITH THE STATE RESERVING THE RIGHT AT ANY TIME TO SET A MONETARY RENTAL IF THE COMMISSION FINDS SUCH ACTION TO BE IN THE STATE'S BEST INTEREST, AND WITH CONSTRUCTION TO BEGIN OCTOBER 1, 1989 AND COMPLETED BY OCTOBER 1, 1990; FOR INSTALLATION AND MAINTENANCE OF AN ARTIFICIAL FISHING REEF ON THE LAND DESCRIBED ON EXHIBIT "A" ATTACHED AND BY REFERENCE MADE A PART HEREOF.

-5-

CALENDAR PAGE 256
MINUTE PAGE 3511

CALENDAR ITEM 40. 22 (CONT'D)

CONTRAMINE THAT YOU WOUTEEF AS APPROVED WILE BUT HE SHOWN ON THE

EXHIBIT "A"

W 24262

LAND DESCRIPTION

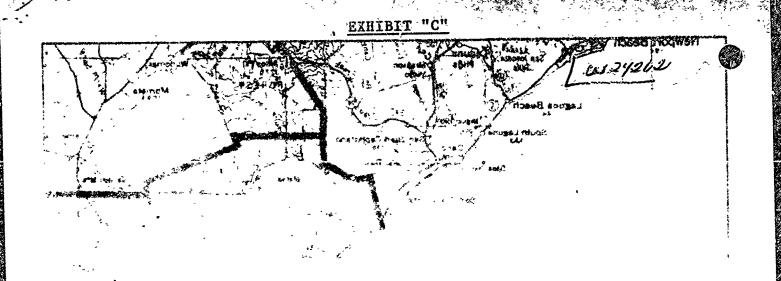
A parcel of submerged land in the Pacific Ocean near Bataquitos Lagoon, San Diego County, California, the corners of said parcel having the following geographic positions:

1. Latitude = N 33° 05' 21"
2. Latitude = N 33° 05' 00"
3. Latitude = N 33° 05' 18"
4. Latitude = N 33° 04' 57"
Longitude = W 117° 19' 00"
Longitude = W 117° 19' 22"
Longitude = W 117° 19' 18"

END OF DESCRIPTION

PREPARED JULY 25, 1989 BY BIU 1.

CALENDAR PAGE 257
MINUTE PAGE 3512



California Department of Fish and Game

Proposed Negative Declaration

for

Carlsbad Artificial Reef

Harch, 1989



CALENDAR PAGE 259
MINUTE PAGE 3514

P. XICESTRA . APPENDIX F

NOTICE OF COMPLETION AND RENVIRONMENTAL ADOCUMENZATRANSMITTAL FORM

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	Fish and Game	3. COMMON PRESENT JOH	n T. Grant	•				
	ien Shore, Suite	50 Long Bo	ach	- f 21				
r. com Los Angeles	14. 1ip.	90802	. (213) 590-5180	-				
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Construction of	a 10.000-ton qua	arry rock fishing	reef to increase	local				
sportfish catch	and to allow st	udy of the relati	lonships between s	ome sport-				
Vish species an	d artificial ree	fs.						
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:			CALENDAR PAGE	260				

.-37-

MINUTE PAGE

APPENDIX H

APPENDIK F

(To Be Completed By Applicant)

ate	Filed 2-27-89
jenei	ral Information
•	Name and address of developer or project sponsor:
1.	California Department of Fish and Game
	California Department of Fish and Game ocean bottom described 33085:21"N x 117019:00"W Address of project: by coordinates: 3308:18"N x 117019:22"W Address of project: by coordinates: 3308:18"N x 117019:22"W
2.	Address of project: by coordinates: 3305:18"N x 117010:22"W Accessor's Block and Lot Number: 33004'57"N x 117019'18"W
	Assessor's Block and Lot Number: 33004'57"N x 117019'18"W
3.	Name, address, and telephone number of person to be contacted concerning this project: John J. Grant, 330 Golden Shore, Suite 50, Long Beach, CA 90802 (213) 590-5180
4.	Indicate number of the permit application for the project to which this form pertains: one
5.	required for this project, including those required by City, legionar, state and (ederal agencies: California CoastalCommission, Corps of Engineers,
	State Lands Commission, Water Resources Control Board
6.	Existing zoning district: N/A
*	Proposed use of site (Project for which this form is flied): Recreational Fishery Enhancement
Proj	ect Description Artificial Reef constructed of 10,000 tons of quarry rock
8.	Site size.
9.	Square footage. 30,000 square feet of ocean bottom covered by 12 rock piles, each 50' x 50' square.
	Number of floors of construction. None
11.	Amount of off-street parking provided. None
lz.	Attach plans. See attached figures
13.	Proposed scheduling. Project to be built over 12 days prior to June 30, 1989 if permits are received.
14.	Associat 1 project. None
15.	
16.	If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected.

17.	oriented, squire footage of sales area, and loading facilities.	A 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Q.	industrial, indicate type, estimated exployment per shift, as facilities.	e the s	diroge	25. De
19%	If institutional, indicate the major function, estimated empleshift, estimated occupancy, loading facilities, and community be derived from the project.	bene <u>li</u> ts : apar ,	ba in glian clev:	ia lo
20.	If the project involves a variance, conditional use or rezonition, state this and indicate clearly why the application is required.	ng, appli utred., ,	ca 7	:
Are all	the following items applicable to the project or its effects? Distens checked yes (attach additional sheets as necessary).	scuss be	low	Contact (
		Yes	No	" ngh C"
21.	Change in existing features of any bays, tidelands, beaches, or hills, or substantial alteration of ground contours.	X		
22.	Change in scenic views or vistas from existing residential areas or public lands or roads.		Х	•.
23.	Change in pattern, scale or character of general area of project.		<u>x</u>	•
24.	Significant amounts of solid waste or litter.		<u> </u>	
25.	Change in dust, ash, smoke, furnes or odors in vicinity.		<u>x</u>	-
26.	Change in ocean, bay, lake, stream or ground water quality or quantity, or alteration of existing drainage patterns.			
27.	Substantial change in existing noise or vibration levels in the vicinity.		<u>x</u>	
28,	Site on filled land or on slope of 10 percent or more.		<u>×</u>	
29.	Use of disposal of potentially hazardous materials, such as toxic substances, flammables or explosives.		<u>x</u>	
30.	Substantial change in demand for municipal services (police, fire, water, sewage, etc.).	a-pt.)mmq.nip	<u>*</u>	
31.	Substantially increase fossil fuel consumption (electricity, oil, matural gas, etc.).		<u>x</u>	
32.	Relationship to a larger project or series of projects.	allulrayras)	<u>x</u>	4 −₩
Env	ironzental Setting			
33.	metion on topography, soil stability, plants and animals, and a	ny cultu	ral,	
	historical or scenic aspects. Describe any existing struct		i elle	

262 3517

CALENDAR PAGE MINUTE PAGE

- If commercial, indicate the type, whether neighborhood, city or regionally or instance or instance or instance of the solution of the solution
- 34. Describe the surrounding properties, including information on plants and animals and any cultural, historical or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.). Attach photographs of the vicinity. Snapshots or polaroid photos will be accepted. See below

Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and in formation presented are true and correct to the best of my knowledge and belief.

2-27- 59 Date	Signa sure
------------------	------------

For _____

(Note: This is only a suggested form. Public agencies are free to devise their own format for initial studies.)

- #21. The project will result in the covering of 30,000 square feet of subtidal sand/rocks area by placement of 12 rock piles each 50 ft square and 6 ft high.
- #34. The area is currently an open sand/rock table-like ocean bottom area between two kelp beds offshore Batiquitos Lagoon, Carlsbad California. The area currently supports relatively sparce populations of the normal inshore biota. Nearby kelp beds provide food and shelter habitat for numerous diverse species of fish and invertebrates.

APPENDIX I

2. Air. 4001 the propert result

ENVIRONMENTAL CHECKLIST FORM

(To: Be: Completed By: Lead; Agency) attack and a second a second and a second and a second and a second and a second

_	& Lone	d on a section of		7	
l.	Name	of Proponent Department of Fish & Game	٠.٠		
2.	Addr	ress and Phone Humber of Proponent 330 Golden Stage Beach, CA 90802 (213) 590-5180			
				<u> </u>	
3.	Date	of Checklist Submitted	·		
4.	Agen	cy Requiring Checklist California Department of	Fish	and Game	
5.	Name	of Proposal, if applicable Carlsbad Artificial.	Reef		
Env:	lross	ental Impacts			
(Ex	•	tions of all "yes" and "maybe" answers are requi	red (on attac	hed
			Yes	Maybe	N
1.	Bar	th. Will the proposal result in:			
,	a.	Unstable earth conditions or in changes in geologic substructures?			
	b.	Disruptions, displacements, compaction or overcovering of the soil?		* *****************************	-
		1			
	c.	Change in topography or ground surface relief features?			_
	c.	Change in topography or ground surface relief features? The destruction, covering or modification of any unique geologic or physical features?			-
		relief features? The destruction, covering or modification			•
ì	d. e.	The destruction, covering or modification of any unique geologic or physical features? Any increase in wind or water erosion of			

CALENDAR PAGE 264
MINUTE PAGE 3519

			Yes	Maybe	No
2.	Air	. Will the proposal result in:			
•	2.	Substantial air emissions or deterioration of ambient air quality?			<u>x</u>
	b.	The creation of objectionable odors?	, (S _p ×	<u>। इति । स्ट</u>	X
	.C.,	Alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?	-		<u>x</u>
.3.	Wat	er. Will the proposal result in:			
	a.	Changes in currents, or the course of direction of water movements, in either marine or fresh waters?	<u>x</u>	-	•
	p•	Changes in absorption rates, drainage pat- terns, or the rate and amount of surface rumoff?	*******	- Annual Control of Tradition o	<u>x</u>
	c.	Alterations to the course or low of flood waters?	******		<u>x</u>
	d.	Change in the amount of surface water in any water body?	· ·	******	X
	е.	Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?	6 14571999		Х ——,
	f.	Alteration of the direction or rate of flow of ground waters?	-		<u>x</u>
	8.	Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?			<u>x</u>
	h.	Substantial reduction in the amount of water otherwise available for public water supplies?	engurous.	**************************************	<u>x</u>
	i.	Exposure of people or property to water related hazards such as flooding or tidal waves?	***************	yangantarah dipada	<u>x</u> .
4.	_	ant Life. Will the proposal result in:	-		
	2.	Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?	×		

CALENDAR PAGE	<u>265</u>			
MANUTE PAGE	<u>3520.</u>			

,	AGE	ERRYOE	110
b. Reduction of the numbers of any unique, rare or endangered species; of plants?	المعاملين وساط المدار المرا	``	X
Introduction of new species of plants into an	esponse	1 1	
area, or in a barrier to the normal replenishment of existing species?	r-14 #	lı zel- .	
d. Reduction in acreage of any agricultural coop?	· (1007)	li ngs-	x .
5. Animal Life. Will the proposal result in:	%S •		ŧ
a. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shell-fish, benthic organisms or insects)?	· x	-	************
b. Reduction of the numbers of any unique, rare or endangered species of animals?			<u>x</u>
c. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?	•	-	x
d. Deterioration to existing fish or wildlife habitat?	×		
6. Noise. Will the proposal result in:			
a. Increases in existing noise levels?			, x
b. Exposure of people to severe noise levels?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	كاستية المؤيد، والمرور بمورد	×
7. Light and Glare. Will the proposal produce new light or glare?		, white the state of the state	<u>x .</u>
8. Land Use. Will the proposal result in a sub- stantial alteration of the present or planned land use of an area?	and the second		<u>x</u>
9. Natural Resources. Will the proposal result in:			•
a. Increase in the rate of use of any natural resources?		<u> </u>	, arrivatio
10. Risk of Upset. Will the proposal involve:			
a. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals or radiation) in the event of an accident or upset conditions?			_ <u>×</u> _

CALENDAY PAGE 266 MINUTE PAGE 3521

OF:	yoe	Z: ESY	•	- int	Er-	-71 2
			Yes	laybe	No	
X		of the numbers of any anti-us ra-s	eduction	Я . d		
	D:	 Possible interference with an emergency response plan or an emergency evacuation 	endangu	*		4 D3
		plan?	rathers.		X	
>		7. Tarrey 1. 1	3.7 (19)		<u> </u>	
11.	-Po	pulation. Will the proposal alter the location	la 1. 1. 1.			
		stribution, density, or growth rate of the hume pulation of an area?	3.11		X	
	··po	fulation of an area:	*			
12.		using. Will the proposal affect existing hous-			• x	
	in	g, or create a demand for additional housing?				
13.	Tr	ansportation/Circulation. Will the proposal				
		sult in:				
	а.	Generation of substantial additional vehicular movement?			X	
		Venicular hoveness;			*******	
	b.	Effects on existing parking facilities, or				
		demand for new parking?	*		X	
	C.	Substantial impact upon existing transpor-				
	•	tation systems?	*****		X	
	d.	Alterations to present patterns of circulation or movement of people and/or goods?			x	<i>a</i>
		•			*******	
	e.	Alterations to waterborne, rail or air traff	ic?	<u> </u>		
	ε.	increase in traffic mameris to motor venicles,				
		bicyclists or pelestrians?			<u>x</u>	
14.	Dub	lic Services. Will the proposal have an effect	•			
	upos	n, or result in a need for new or altered gov-				
	erm	mental services in any of the following areas:	•			
	9.	Fire protection?			X	
	~.	, and a second s	endigetecher, p			
	b.	Police protection?			X	
	c.	Schools?			<u>x</u>	
	d.	Parks or other recreational facilities?	-		<u>x</u>	
	e.	Maintenance of public facilities, including			х	
		roads?				
	f.	Other governmental services?			<u>x</u>	
15.	Ene	rgy. Will the proposal result in:				
	a.	Use of substantial amounts of fuel or energy?			<u>x</u>	6

CALENDAY PAGE 267
MONUTE PAGE 3523

16 S. S.							Section 1
ol	1700	Yes k	•	Yes	Maybe	No	
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¥.	h 500	etantial incre	ase in demand upon existing, , or require the development		3 (12)	x	
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	of	new sources of	energy?		₹ € ,	,	
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10.	11-00 P.N	stems, or demand	tantial alterations to the				
	follo	ing utilities:					
			was amongsol result in:				
17.	Freman	Realth. Will	the proposal result in:				
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	a. C	eation or any	excluding mental health)?				
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		of moor	ole to potential health			Х	
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	t	azards?		:			
		allen Bill ti	he proposal result in the scenic vista or view open to				
18.	Aesti	ection of any	scenic vista or view open to the proposal result in the				
	the s	ublic, or will	the proposal result in the	1		x	
	orga	ton of an acou	the proposal result in the open hetically offensive site open				
	to p	iblic view?					
			result in an				
19.	Reci	etion. Will t	the proposal result in an		x		
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	reci	eational opport	Cull Cles.				****
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20	. Culi	ural Resources	·hima				•
		ment the propo	sal result in the alteration			x	
	a.	Will the dest	ruction of a prehistoric or				
		historic archa	eclogical site?	•			
		HISCON TO T	the adverse physica	al			
	ъ.	Will the propo	osal result in adverse physical			X	
	~ ~	or aesthetic	osal result in addition or offects to a prehistoric or object?				-
		historic build	ding, structure,				
	c.	Does the prop	osal have the potential calchange which would affect cultural values?	•		x	
		cause a physi	cal cizago """				
		unique econic	Carcara			_	
			posal restrict existing religi	Lous		-	
	d.	Affi the blot	posal restrict existing impact ses within the potential impact	C .		×	
		or sacred use	A M A A A A A A A A A A A A A A A A A A				
	•	area?	•	•			
		Mindin	of Significance.				
1	21.	ndatory riedin	gs of Significance.	anda			
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	. 2	Does the bro	ject have the potential of the environment, substantial of a fish or wildlife	.ally			
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		reduce and a	abitat of a rish of writering lise a fish or wildlife populations and sustaining levels, the	LIUII			
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CKGROUND

Since the late 1950's the Culifornia Department of Fish and Game (CDFG) hason belivore forests, Y. F. M. 2012 been successfully enhancing sportfishing success in southern California by lds - sn inland construction of artificial reefs. Such reefs are an increasingly important fisheries management tools by which CDFG can significantly impact fishing * success. Recent reef construction has provided opportunities for marine scientists to investigate fisheries/reef interactions and better understand benthic community development on such habitat. Results of these studies have advanced the Departments local sport fisheries asnagement potential and suggested new improved, reef designs.

Observations of fishes inhabiting artificial reef suggest that they react differently to varied physical characteristics in reef design. Studies indicate fish "size grading" on reefs can be influenced by rock size and, perhaps, water depth. A series of fishing reefs has been constructed from San Diego to Santa Monica Bay. These reefs include built-in experimental designs that will allow future investigation of these, and other, questions while providing increased sportfishing opportunity and success.

PROPOSED REEF

We propose to build a 10,000 ton quarry rock fishing reef off the coast of Carlsbad, California that will increase local sportfish catch and allow us to further refine our knowledge of the relationships between some sportfish species and artificial reefs. The Carlabad area (Figure 1) offers an opportunity, perhaps unique, to investigate the interaction between reef construction and nearshore sportfish populations beyond the expected fishery benefits.

The artificial reef proposed for Carlabad differs in design from previous reefs built by CDFG. The reef will consist of a series of rock piles, or modules, forming four lines perpendicular to shore (Figure 2). Large rocks (4'-6') will be used to build half of the modules, small rocks (1'-3') will be used on the other.

The proposed design will act as an excellent fishing reef. However, the future opening of Bataquitos Lagoon presents a unique opportunity to increase our knowledge of the behavior of nearshore fishes on such reefs. The "size grading" phenomenon mentioned above, could facilitate movements of small or juvenile fishes into, and out of, the lagoon along the lines of acdules comprised of smaller rocks. It has been suggested that the population declines appearing in several of southern California's most popular sportfish species can be attributed, in part, to the loss of wetlands and embayments. If this is the case, and such habitat is critical to juvenile and larval fish, the Bataquitos Lagoon opening will represent a small but aignificant change in direction for southern California coastal management. The proposed reef is designed to take advantage of such a development and provide shelter to juvenile fish entering and leaving the lagoon.

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the site chosen for the reaf, directivity fronting proposed tageon opining.

Is located between two areas that have districtedly supported at ands of Macrocystis (giant kelp). Macrocystis (absumbt) grows in the proposed site reef precluded by the sand layer covering rock basesent in the area. Since the reef will be in relatively shallow water (30 to 57 ft) and proximal to existing kilp will be in relatively shallow water (30 to 57 ft) and proximal to existing kilp will be in relatively shallow water (30 to 57 ft) and proximal to existing kilp forests, Macrocystis is expected to recruit successfully onto the rock spostrate provided by these effects will increase primary productivity and provide districted by these effects and and the state of the read and a country and a country of the state of the read and a country and a country of the state of the read and a country and a country of the state of the read and a country of the country of

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Creanographic studies conducted by Tech-Marine indicate no sand transport or burial problems for the reef as designed and sited (see attached). No significant resources will be negatively impacted by the construction.

The City of Carlabad is a beach community of 60,000. It covers 45 square miles including 6.5 miles of beach front. Within the city boundaries are 3 lagoons including the now closed Bataquitos Lagoon. Due to the shelf/sand nature of nearby subtidal substrate there are no particularly successful fishing sites within the city limits. The construction of Carlabad Artificial Reef will provide such a site with no significant negative environmental impacts.

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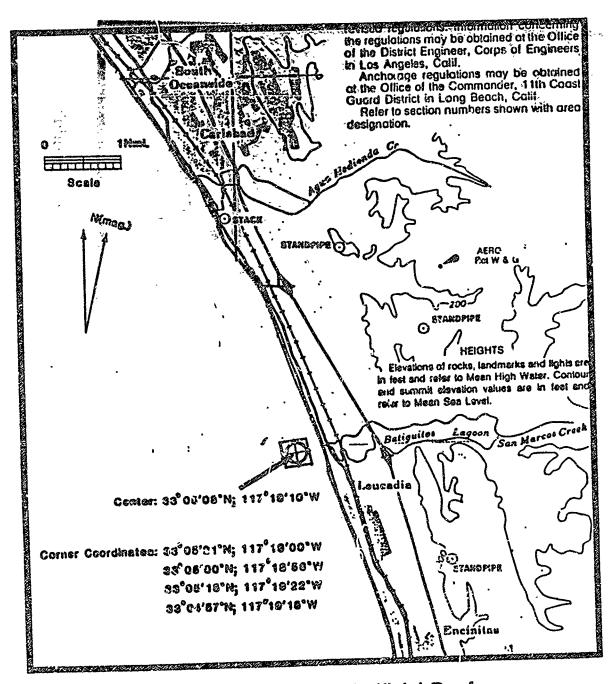


Figure 1. Proposed Carlsbad Artificial Reef

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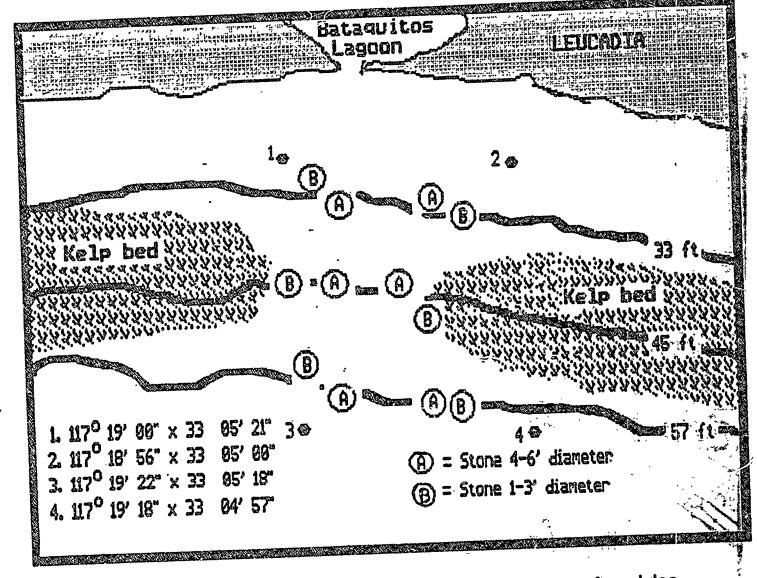


Figure 2. Carlsbad Artificial Reef - Relative location of reef modules

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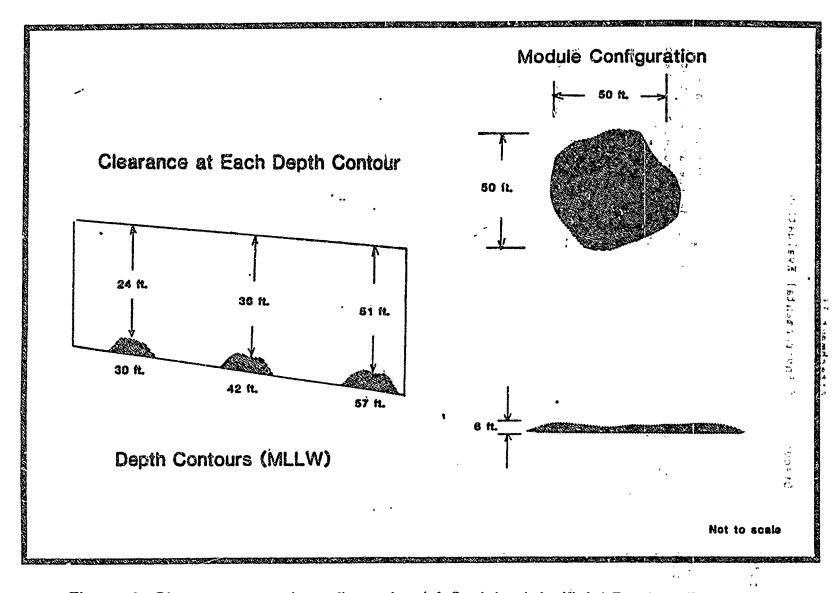


Figure 3. Clearances and configuration of Carlsbad Artificial Reef modules

Attachment II

Discussion of Environmental Evaluation

Initial Study

WATER

3a. There will be very minimal and localized changes in water movements around the rock piles. All modules will be outside the active littoral transport zone, so there will be no impact on coastal processes. There should also be no impact on wave patterns or recreational water activities (see enclosed TEKMARINE Report).

PLANT LIFE

4a. There will be an increase in numbers and diversity of aquatic plants as a result of the reef. Kelp plants will recruit to and grow on the rock piles.

ANIMAL LIFE

- There will be increases in the diversity and numbers of plants, invertebrates, and fish as a result of the reef construction. The present substrate is a dynamic, thin sand overlay covering a table rock-cobble bottom. There are very low numbers of the ornate tubeworm (Diopatra ornata) in the sand areas between the exposed rock, and occasional sand stars (Astropecten sp.) and Kellets whelks (Kelletia kelletia) on the sore permanent sandy patches. Most species of the nearshore kelp bed-associated fishes probably move through the proposed site in transit to the two adjacent kelp beds. The placement of the 30,000 square feet of rock will, of course, remove an equal amount of the existing substrate by burial. However, this relatively unproductive area will be enhanced by the rugose and complex rock piles. Similar artificial reefs in the Southern California Bight have been very successful in increasing numbers and diversity of nearshore species of fish and invertebrate.
- 5d. As mentioned in 5a., above, the placement of the rock piles will cover 30,000 square feet of sand/rock substrate. However, the substrate in question is not very productive, perhaps due to the slight amount of sand that seasonally overlays the basement rock/cobble bottom. The transient nature of this thin (0-2 ft) layer of sand prohibits the development of either a stable sand or rock-dwelling community. The increase in biota resulting from the rock placement and subsequent colonization and use by benthic organisms will more than replace any organisms lost to burial.

NATURAL RESOURCES

9a. There may be an increase in the rate of use of natural resources resulting from increased recreational fishing pressure. This is difficult to assess since much of the pressure on artificial reefs is from anglers redirecting their efforts to the reefs from other traditional sites. Fish are attracted to artificial reefs and are, in theory, more vulnerable to take by fishing pressure. However, the reef

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DEPARTMENT OF FISH AND GAME

design is similar to that which has proven successful in increasing production in nearby areas, such as Pendleton Artificial Reef, and should function equally well here. Also, the placement of this reef at this site could provide significant overall increases in young fish survival if the proposed opening of Batiquitos Lagoon becomes a reality. The reef design is based upon reef studies that suggest fish segregate by size onto artificial reefs of different size rocks. We are investigating the potential for providing recruitment habitat and pathways for young and small fish to move into, and out of, the lagoon. Recent evidence suggests that such coastal lagoons provide critical habitat for young fish species that have suffered significant population declines coincident with loss of such habitat. If this experiment is successful, we may be able to develop a valuable tool for managing some nearshore sportfish populations. While we believe any increased use of the local sportfish populations will be minimal, the benefits of the project could be significant in terms of development of new management techniques.

TRANSPORTATION

13e. There will be some increase in water-borne traffic in the immediate area of the reef, particularly when it is first constructed. It should be noted, however, that the overall traffic in the area will not be significantly increased. There will be no increased use of adjacent harbors.

RECREATION

19. The proposed reef will have a positive impact on both the quality and quantity of existing recreational opportunities. The area around the proposed site has numerous very low relief, small natural reefs. The proposed reef would provide a substantially higher relief target for sport fishing.

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DEPARTMENT OF FISH AND GAME

Marko Resources Division 330 Golden Shore, Suke 50 Long Beach, CA 80802

CALIFORNIA ENVIRONMENTAL QUALITY ACT

NEGATIVE DECLARATION

CEQA Guidélines

AGENCY

California Department of Fish and Game

PROJECT TITLE

Carlsbad Artificial Reef

PROJECT LOCATION

330 05' 21"N x 1170 19' 00"W 330 05' 00"N x 1170 18' 56"W 330 05' 18"N x 1170 19' 22"W

within area described by corner coordinates: 330

PROJECT DESCRIPTION:

Construction of artificial reef from 10,000 tons of guarry rock (SEE ATTACHMENT I)

NAME AND ADDRESS OF APPLICANT

California Department of Fish and Game

330 Golden Shore, Suite 50

Long Beach, California 90802

FINDING:

The Nearshore Sportfish Habitat Enhancement Project of the Department of Fish and Game has determined that this project will not have a significant effect on the environment for the following reasons:

The Reef will have no significant impact on the existing marine environment. any changes that do occur will be beneficial in that there will be an increase in numbers and diversity of the nearshore species of fish and invertebrates.

> SEE ATTACHED SHEET(S) FOR ANY MITIGATION MEASURES IMPOSED.

THE INITIAL STUDY PREPARED FOR THIS PROJECT IS ATTACHED.

NAME OF PERSON PREPARING THIS FORM

ì

TITLE

TELEPHONE NUMBER

John J. Grant

M Time Habitat Development

(213) 590-5180

C ordinator

ADDRESS

California Department of Fish & Game 330 Golden Shore, Suite 50

California 90802

SIGNATURE (Cilicial)

DATE 2/27/89

TEKNARINE

November 8, 1988 Ref: TCN-138/1

Mr. John Grant Department of Fish and Game 330 Golden Shore Suite 50 Long Beach, CA 90802

Subject: Carlsbad Artificial Fishing Reef

Dear John:

On behalf of the City of Carlsbad, we have reviewed your proposed site and design for the Carlsbad artificial fishing reef (CAR, see Attachment 1) from an oceanographic and engineering perspective. Our review comments are detailed below. In summary, we endorse the proposed site and design with the exception that we recommend siting the shallow water modules at the sediment transport closure depth of 30 ft, MLLW (see Attachment 2) to minimize inundation resulting from seasonal beach profile changes.

Site Evaluation

It is our understanding that the site selection was limited to the area offshore of Batiquitos Lagoon because of the proposed lagoon opening and the potential for biological interaction between the reef and lagoon. As indicated in our meeting of October 4, 1988, our primary concern with this site is the potential for siltation resulting from the opening of the lagoon and nourishment of the adjacent beaches. To evaluate this site and, in particluar, address the foregoing concern, we conducted a literature review and on-site inspection.

Our literature review concentrated on the results of Tekmarine's evaluation of sites, extending from mid-Carlsbad to Camp Pendleton, for the Oceanside fishing reef (December, 1985). Findings relevant to the siting of CAR include the following:

- o The area has a relatively straight shoreline and uniform bathymetry indicating that differences in oceanographic considerations will be subtle.
- o Sediment supply due to discharges of coastal rivers is greatest near the San Luis Rey River, suggesting that turbidity will be reduced at sites farthest from the river.

Cont'd

* TEKMARINE, INC. 572 EAST GREEN STREET PASADENA, CALIFORNIA 91101 TELEPHONE: (818) 405-9111 TELECOPIER: (818) 405-0691 TELEX: 753709 TEKMARINE UD

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SOURCE: US ARMY CORPS OF ENGINEERS COAST OF CALIFORNIA : ORM AND TIDAL WAVES STUDY

VIBRAOORE LOG

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SOURCE: OSBORNE, R. H. et al., JUNE 1983, 'REPORT OF POTENTIAL OFFSHORE SAND AND GRAVEL RESOURCES OF THE INNER CONTINENTAL SHELF OF SOUTHERN CALIFORNIA', UNIV. OF SOUTHERN CAL., prepared for STATE OF CAL. DEPT. OF BOATING AND WATERWAYS

ATTAGHMENT 3: VIBRACORE LOG OFF BATIQUITOS LAGOON

CALCADA RABE <u>280</u> AMBOR 2402 <u>3535</u> Mr. John Grant Department of Fish and Game Page 2

- o The potential for sediment movement (scour and deposition) exists throughout the study area due to wave and current action. However, the potential decreases with water depth.
- o The seafloor sediments in the area are uniformly graded silty sands suitable as a foundation for a quarrystone reef.
- o Traces of sewage in the surface sediments are weak throughout the area.

Additional data sources consulted included the nearshore bathymetric survey data base (U.S. Army Corps of Engineers Coast of California Storm and Tidal Waves Study) and a report on sand and gravel resources of the nearshore area of southern California (Dept. of Boating and Waterways, June 1983). Site-specific findings relevant to the proposed CAR location included the following:

- o Seasonal on- offshore sediment transport is limited to a depth of approximately 30 ft, MLLW (see Attachment 2).
- The seafloor sediments consist of a thin veneer of fine sand (0-2 ft :thick) overlying meidum sand and gravels, based on a vibracore log in a water depth of 42 ft (see Attachment 3).

Based on the findings of our literature review, we had no reason to suggest an alternative site off of Carlsbad. However, a dive inspection was made on October 19, 1988 to investigate the potential for siltation resulting from the Batiquitos Lagoon enhancement plan. The objective of the inspection was to compare seafloor conditions at the proposed CAR site with those directly offshore of the discharge outlet of Agua Hedionda Lagoon. The rationale for this objective was based on the assumption that the conditions at Agua Hedionda (beach nourishment adjacent to the outlet) may be somewhat analagous to those proposed at Batiquitos Lagoon, and, therefore, it may be possible to draw inferences based on existing relative conditions. In fact, the conditions at the Agua Hedionda discharge outlet may be worse because the flow is essentially unidirectional while at Batiquitos the flow direction will change with the tide.

Cont'd

Mr. John Grant Department of Fish and Game Page 3

The dive inspections were conducted at depths of 30 and 60 ft, MLLW off of Batiquitos tagoon and depths of 15 and 35 ft, MLLW off of Agua Hedionda Lagoon. During each dive the following activities were performed: 1) a visual inspection of seafloor conditions, 2) grab sampling of sediments for subsequent sieve analysis, and 3) seafloor probing with a hand-held rod.

Results of the inspections were remarkably similar at all dive sites: the bottom was essentially a featureless fine-grained sand plain with some evidence of bottom-founded marine life. The seafloor was probed 2-3 ft except at the 50 ft site where only a thin veneer of sand several inches thick covered gravel and cobble.

If the seafloor off of Aqua Hedionda had been coarse sand, cobbles or rock, it could have been concluded that siltation was not occuring. Conversely, if the seafloor had been a desert of silt-sized sediments, it could have been concluded that siltation was occuring. The existence of some bottom-founded marine life and fine-grained sediments similar to those off of Baciquitos Lagoon suggests that heavy sedimentation is not a problem off of Agua Hedionda and may not be a problem off Batiquitos Lagoon.

Based on our literature review and site inspections, our only recommendation concerning the proposed site of CAR is that the shallow-water modules be sited at the rediment transport closure depth of 30 ft to minimize temporary inundation during seasonal beach profile changes.

Reef Design

Our primary concern in reviewing the reaf design was to assess the potential for impacts on natural coastal processes and coasrecreational activities, e.g., sediment transport and ing. Assuming the shallow-water modules are sited at 30 ft, surfing. MLLW. all of the modules will he outside of the active littoral transport zone and there should be no impact on coastal processes. Furthermore, because the overall dimensions of the modules are small relative to the length of typical waves in the area, there should be no impact on wave patterns or recreational water activities.

Cong'd

Mr. John Grant Department of Fish and Game Page 4

The reef design was also reviewed for structural integrity, i.e. rock stability. A cursory evaluation of rock stability based on rock size, water depth, and wave conditions indicates the rocks are adequately sized.

Should you have any questions regarding our review or if we can assist in expediting the permitting process, please feel free to call.

Very truly yours, TEKMARINE, INC.

11100 11/2000 -

Chris C. Butcher, P.E. Senior Engineer

xc: Hr. John Cahill, City of Carlsbad

Attachments: as stated

TERMARINE, INC. 572 EAST GREEN STREET PASADENA, CALIFORNIA 91101 CALENDA FASE
TELEPHONE: (818) 405-9111 TELECOPIER: (818) 405-0691 TELEX: 753709 TEXMARINE UD E 205

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NOTICE OF DETERMINATION

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