

SCCWRP GRAB SAMPLING

1) Depth 13 m

Temperature 16.5°C

Station #	<u>133</u>
Replicate	<u>1</u>
Observer	
Device	
Date	<u>7/31/75</u>

2) Cobble		Gravel	Sand	Silt	Clay
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H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color -

3) Size of sample -

Depth of deepest portion - 1.0 cm

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -  DDT - - - -

AVS - - - -  Sediment -

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 13 m  
 Temperature 61°F

Station #	<u>NB 8</u>
Replicate	<u>2</u>
Observer	
Device	
Date	<u>7/31/75</u>

2) 

Cobble	Gravel	Sand	Silt	Clay
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H<sub>2</sub>S - none → slight moderate overwhelming  
 Where - depth of anaerobic layer (estimate)  
 Color -

3) Size of sample -

Depth of deepest portion - 1.0 cm  
 Length and width - cm  
 Volume - cm

4) Sub-samples

Sub-core -   
 AVS -

DDT -   
 Sediment -

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 39m  
Temperature 56°F

Station #	<u>NB 20</u>
Replicate	<u>1</u>
Observer	_____
Device	_____
Date	<u>7/31/75</u>

2) 

Cobble		Gravel		Sand		Silt		Clay
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 H<sub>2</sub>S - none slight moderate overwhelming  
 Where - depth of anaerobic layer (estimate)  
 Color - blk. streaks

3) Size of sample -  
 Depth of deepest portion - 3.0' cm  
 Length and width - cm  
 Volume - cm

4) Sub-samples

Sub-core -

DDT - - - -

AVS - - - -

Sediment -

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 39 m  
 Temperature 57 F

Station #	<u>NS 20</u>
Replicate	<u>2</u>
Observer	_____
Device	_____
Date	<u>7/31/75</u>

2) 

Cobble		Gravel		Sand	<u>Silt</u>		Clay
--------	--	--------	--	------	-------------	--	------

  
 H<sub>2</sub>S - none slight moderate overwhelming  
 Where - depth of anaerobic layer (estimate)  
 Color - Blk streaking

3) Size of sample -  
 Depth of deepest portion - 2 3/4 cm  
 Length and width - cm  
 Volume - cm

4) Sub-samples

Sub-core -  DDT - - - -   
 AVS - - - -  Sediment -

5) Comments:

1045 hrs

ORCOSAN

SCCWRP GRAB SAMPLING

1) Depth 46 m  
Temperature 55° F

Station #	<u>NB 25</u>
Replicate	<u>①</u>
Observer	_____
Device	_____
Date	<u>7/30/75</u>

2) Cobble		Gravel		Sand		Silt	←	Clay
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H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - dk olive w/ blk. streaks

3) Size of sample -

Depth of deepest portion - 1/2" ~~cm~~

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -

DDT - - - -

AVS - - - -

Sediment -

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 46m  
 Temperature 56°F

Station #	<u>NB 25</u>
Replicate	<u>(2)</u>
Observer	
Device	
Date	<u>7/30/75</u>

2) 

Cobble		Gravel		Sand		Silt		Clay
--------	--	--------	--	------	--	------	--	------

  
 H<sub>2</sub>S - none slight moderate overwhelming  
 Where - depth of anaerobic layer (estimate)  
 Color - dk olive w/ blk streaks

3) Size of sample -  
 Depth of deepest portion - 1.0 cm  
 Length and width - cm  
 Volume - cm

4) Sub-samples  
 Sub-core -  DDT -   
 AVS -  Sediment -

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 46 m  
Temperature 56° F

Station #	<u>NB 25</u>
Replicate	<u>3</u>
Observer	
Device	
Date	<u>7/30/75</u>

2) 

Cobble		Gravel		Sand	<u>Silt</u>	→	Clay
--------	--	--------	--	------	-------------	---	------

  
H<sub>2</sub>S - none slight moderate overwhelming  
Where - depth of anaerobic layer (estimate)  
Color - heavy blk. streaking

3) Size of sample -  
Depth of deepest portion - 1 1/2" cm  
Length and width - cm  
Volume - cm

4) Sub-samples  
Sub-core -  DDT - - - -   
AVS - - - -  Sediment -  Hg

5) Comments:

1435 hrs

ORCOSAN

SCCWRP GRAB SAMPLING

1) Depth 57m  
Temperature 55°F

Station #	<u>NB 30</u>
Replicate	<u>1</u>
Observer	
Device	
Date	<u>7/29/75</u>

2) 

Cobble		Gravel	<u>Sand</u>	→	Silt		Clay
--------	--	--------	-------------	---	------	--	------

  
H<sub>2</sub>S - none slight moderate → overwhelming  
Where - depth of anaerobic layer (estimate)  
Color -

3) Size of sample -  
Depth of deepest portion - 3/4 cm  
Length and width - cm  
Volume - cm

4) Sub-samples  
Sub-core -  DDT -   
AVS -  Sediment -

5) Comments:  
1st sample empty at 57m



SCCWRP GRAB SAMPLING

1) Depth 57m  
 Temperature 55°F

Station #	<u>NB 30</u>
Replicate	<u>2</u>
Observer	
Device	
Date	<u>7/25/75</u>

2) 

Cobble		Gravel	<u>Sand</u>	Silt	Clay
--------	--	--------	-------------	------	------

H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - trace of blk.

3) Size of sample -  
 Depth of deepest portion - 3/4" ca  
 Length and width - cm  
 Volume - cm

4) Sub-samples  
 Sub-core -  DDT - - - -   
 AVS - - - -  Sediment -

5) Comments:

1445 hrs

ORCOSAN

SCCWRP GRAB SAMPLING

1) Depth 58 m  
Temperature \_\_\_\_\_

Station #	<u>NB 30</u>
Replicate	<u>3</u>
Observer	_____
Device	_____
Date	<u>7/29/75</u>

2) Cobble		Gravel	<u>Sand</u>	→	Silt		Clay
H <sub>2</sub> S	-	none	slight	<u>moderate</u>			overwhelming
Where	-	depth of anaerobic layer (estimate)					
Color	-						

3) Size of sample -  
 Depth of deepest portion - 3/4 cm  
 Length and width - cm  
 Volume - cm

4) Sub-samples

Sub-core -  DDT - - - -   
 AVS - - - -  Sediment -

Hg

5) Comments:

1200 hrs

ORCOSAN

SCCWRP GRAB SAMPLING

DB 50

Station #	<u>SB 50</u>
Replicate	<u>(1)</u>
Observer	
Device	
Date	<u>7/29/75</u>

1) Depth 96 m  
 Temperature 53° F

2) 

Cobble		Gravel	<u>Sand</u>	Silt	Clay
--------	--	--------	-------------	------	------

H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - olive green

3) Size of sample -

Depth of deepest portion - 3/4" cm

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -

DDT -

AVS -

Sediment -

5) Comments:

shell fragments (many)

1207 hrs

ORCOSAN

SCCWRP GRAB SAMPLING

OB 50

1) Depth 957 m  
Temperature 54.8F

Station #	<u>SB 50</u>
Replicate	<u>(2)</u>
Observer	_____
Device	_____
Date	<u>7/29/75</u>

2) Cobble		Gravel	<u>Sand</u> →	Silt	Clay
-----------	--	--------	---------------	------	------

H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - olive green

3) Size of sample -

Depth of deepest portion - 1/4" cm

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -  DDT - - - -

AVS - - - -  Sediment -

5) Comments:

Shell frag.

121③

ORCOSAN

NR 50

SCCWRP GRAB SAMPLING

1) Depth 89 m  
Temperature 53°F

Station #	<u>SB 50</u>
Replicate	<u>3</u>
Observer	_____
Device	_____
Date	<u>7/29/75</u>

2) 

Cobble		Gravel	Sand	Silt	Clay
--------	--	--------	------	------	------

H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - olive green

3) Size of sample -

Depth of deepest portion - 1/2" cm

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -

DDT -

AVS -

Sediment -

H<sub>2</sub>S

5) Comments:

SCCWRP GRAB SAMPLING

1) Depth 185  
 Temperature \_\_\_\_\_

Station #	<u>NB 100</u>
Replicate	<u>1</u>
Observer	_____
Device	_____
Date	<u>7/29/75</u>

2) 

Cobble		Gravel		Sand		Silt	→	Clay
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 H<sub>2</sub>S - none slight moderate overwhelming  
 Where - depth of anaerobic layer (estimate)  
 Color - blue green

3) Size of sample -  
 Depth of deepest portion - 1 1/2" ~~cm~~  
 Length and width - cm  
 Volume - cm

4) Sub-samples  
 Sub-core -  DDT -   
 AVS -  Sediment -

5) Comments:

1035

ORCOSAN

SCCWRP GRAB SAMPLING

1) Depth 177 m  
Temperature 50° F

Station #	<u>NB 100</u>
Replicate	<u>2</u>
Observer	
Device	
Date	<u>7/29/75</u>

2) Cobble		Gravel		Sand		Silt	→	Clay
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H<sub>2</sub>S - none slight moderate overwhelming

Where - depth of anaerobic layer (estimate)

Color - olive green

3) Size of sample -

Depth of deepest portion - 1.0"

Length and width - cm

Volume - cm

4) Sub-samples

Sub-core -

DDT -

AVS -

Sediment -

5) Comments:

- one misfire (182 m)
- " " (179 m)
- " " (179 m)

ORCOSAN ETHIC INVERTEBRATES

JULY 1975

# 3

STATION S/B8

Species/Describer	Common Name	0.5	Replicate		1.0
		1a	1b	0.5 2a	1.0 2b
CNIDARIA					
HYDROZOA					
Hydroida, unid.	hydroid				
<u>Monobrachium parasitum</u> Mereschkovsky	hydroid				
ANTHOZOA					
Anthozoa, unid.	sea anemone				2 91805
Ceriantharia, unid.	burrowing anemone				
<u>Edwardsiella californica</u> McMurrich	sea anemone	1 92075	2		
<u>Filigella mitsukurii</u> Kinoshita	prostrate sea fan				
? <u>Renilla kollikeri</u> Pfeffer	sea pansy				
Pennatulacea, unid.	sea pen				
Virgulariidae, unid.	sea whip				
PLATYHELMINTHES					
Platyhelminthes, unid.	flat worm	92500	1		1
NEMERTEA					
Nemertea, unid.	ribbon worm	93000	1	7 <sup>k</sup>	2
NEMATODA					
Nematoda, unid.	round worm				

Key:

- |                      |                |
|----------------------|----------------|
| a = 0.5 m screen     | h = 2 species  |
| b = 1.0 m screen     | i = 3 species  |
| c = juvenile         | j = mutilated  |
| d = zoea or megalops | k = fragmented |
| e = female           | q = ovigerous  |
| f = male             |                |



ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
ENTOPROCTA					
<u>Barentsia</u> sp.	entoproct				
ANNELIDA					
POLYCHAETA					
ERRANTIA					
<u>Anaitides</u> sp.	polychaete worm				
<u>Chloeia pinnata</u> Moore					1 21210
<u>Diopatra ornata</u> Moore					
<u>Drilonereis falcata</u> Moore					
<u>D. mexicana</u> Fauchald					
<u>Drilonereis</u> sp.					
<u>Eteone californica</u> Hartman					
<u>E. dilatae</u> Hartman					
<u>Eulalia quadrioculata</u> Moore					
<u>Eulalia</u> sp.					
<u>Eunice americana</u> Hartman					
<u>Eusigalion spinosum</u> Hartman					
<u>Exogone gemmifera</u> Pagenstecher					
<u>E. lourei</u> Berkeley & Berkeley					
<u>E. uniformis</u> Hartman					
<u>Glycera americana</u> Leidy					
<u>G. branchiopoda</u> Moore					
<u>G. capitata</u> Oersted					
<u>G. convoluta</u> Keferstein					
<u>G. oxycephala</u> Ehlers					
<u>G. robusta</u> Ehlers					
<u>Glycera</u> sp.					1 <sup>c</sup> 22810
Glyceridae, unid.					
<u>Glycinde polygnatha</u> Hartman					
<u>Glycinde</u> sp.	polychaete worm				4 22912 1

ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Marine Biological Consultants, Inc. 947 Newhall Street, Costa Mesa, California 92627

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
ERRANTIA (Cont)					
<u>Goniada brunnea</u> Treadwell	polychaete worm				
<u>G. littorea</u> Hartman					
<u>Goniada</u> sp.					
Goniadidae, unid.					
<u>Gyptis brevipalpa</u> Hartman-Schroeder					
<u>Hyalinoecia juvenalis</u> Moore					
<u>Langerhansia heterochaeta</u> (Moore)					
<u>Lumbrineris californiensis</u> Hartman					
<u>L. cruzensis</u> Hartman					
<u>L. lagunae</u> Fauchald					
<u>L. latreilli</u> Audouin & Milne Edwards					
<u>L. tetraura</u> (Schmarda)					
<u>Lumbrineris</u> sp.					
<u>Marphysa belli oculata</u> Treadwell					
<u>Nephtys caecoides</u> Hartman					
<u>N. californiensis</u> Hartman					
<u>N. cornuta franciscana</u> Clark & Jones					
<u>N. ferruginea</u> Hartman					
<u>Nephtys</u> sp.					
Nereidae, unid.					
<u>Nereis</u> sp.					
<u>Ninoe gemmea</u> Moore					
<u>Nothria iridescens</u> (Johnson)					
<u>Nothria</u> sp.					
Onuphidae, unid.					
<u>Onuphis eremita</u> Audouin & Milne Edwards					
<u>O. nebulosa</u> Moore					
<u>Onuphis</u> sp.					
<u>Ophiodromus pugettensis</u> (Johnson)	polychaete worm				

11 22924

1<sup>c</sup> 22920

2<sup>c</sup> 23210 1

1 22626

1 22470

1 23035

2 23051

ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
ERRANTIA (Cont)					
<u>Paleanotus bellis</u> (Johnson)	polychaete worm				1 20921
<u>Paranaitis polynoides</u> (Moore)					
<u>Peisidice aspera</u> Johnson					
<u>Pholoe glabra</u> Hartman					
Phyllodocidae, unid.					
<u>Platynereis bicanaliculata</u> (Baird)					
<u>Polyodontes panamensis</u> (Chamberlin)					
<u>Protodorvillea gracilis</u> (Hartman)					
scaleworm, unid.					
<u>Sigambra tentaculata</u> (Treadwell)					
<u>Sphaerodoridium biserialis</u> (Berkeley & Berkeley)					
<u>Sphaerodoridium</u> sp.					
<u>Steggoa californiensis</u> Hartman					
<u>Sthenelais tertiaglabra</u> Moore					1 <sup>k</sup> 20643
<u>Sthenelais verruculosa</u> Johnson					
<u>Sthenelanella uniformis</u> Moore					
<u>Streptosyllis</u> sp.					
Syllidae, unid.					
<u>Typosyllis</u> sp.				1 22220	
SEDENTARIA					
<u>Aedicira pacifica</u> (Hartman)	polychaete worm				
<u>A. ramosa</u> (Annenkova)					
<u>Amage anops</u> (Johnson)					
<u>Ammotrypane aulogaster</u> Rathke					
<u>Ampharete arctica</u> Malmgren					
<u>A. labrops</u> Hartman					
<u>Ampharete</u> sp.					
Ampharetidae, unid.					
<u>Amphicteis scaphobranchiata</u> Moore					
					1 22220
					1 22220

ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Marine Biological Consultants, Inc.

947 Newhall Street, Costa Mesa, California 92627

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
SEDENTARIA (Cont)					
<u>Amphisamytha bioculata</u> (Moore)	polychaete worm				
<u>Apoprionospio pygmaeus</u> (Hartman)			6256152		
<u>Aricidea neosuecica</u> Hartman					
<u>A. suecica</u> Eliason					
<u>A. wassi</u> Pettibone					
<u>Aricidea</u> sp.					
<u>Armandia bioculata</u> Hartman					
<u>Axiothella rubrocincta</u> (Johnson)					
<u>Boccardia basilaria</u> Hartman					
<u>Capitella capitata</u> (Fabricius)					
<u>Capitellidae</u> , unid.			19	27200	2
<u>Chaetozone corona</u> Berkeley & Berkeley					
<u>C. setosa</u> Malmgren				9 26335	
<u>Chaetozone</u> sp.				3 <sup>k</sup> 26330	
<u>Chone ecaudata</u> (Moore)					
<u>C. veleronis</u> Banse					
<u>Chone</u> sp.					
<u>Cirriformia</u> sp.					
<u>Clymenura gracilis</u> Hartman					
<u>Cossura candida</u> Hartman					
<u>Decamastus gracilis</u> Hartman					
<u>Euchone incolor</u> Hartman					
<u>Flabelligeridae</u> , unid.					
<u>Haploscoloplos elongatus</u> (Johnson)			1 25217		
<u>Harmothoe crassicirrata</u> Johnson					
<u>H. lunulata</u> (delle Chiaje)					
<u>H. priops</u> Hartman					
<u>Harmothoe</u> sp.					
<u>Hesionidae</u> , unid.	polychaete worm				

## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
SEDENTARIA (Cont)					
<u>Hesperonoe complanata</u> (Johnson)	polychaete worm				
<u>Heteroclymene glabra</u> Moore					
<u>Laonice cirrata</u> (Sars)					
<u>Loimia medusa</u> (Savigny)					
<u>Magelona pitelkai</u> Hartman					125813
<u>M. sacculata</u> Hartman					
<u>Magelona</u> sp.		625910	3		
<u>Maldane cristata</u> Treadwell					
<u>M. sarsi</u> Malmgren					
Maldanidae, unid.					
<u>Megalomma splendida</u> (Moore)					
<u>Melinna heterodonta</u> Moore					
<u>M. oculata</u> Hartman					
<u>Myriochele gracilis</u> Hartman					
<u>Nerinides acuta</u> (Treadwell)					125571
<u>N. maculata</u> Hartman					
<u>N. pigmentata</u> (Reish)					
<u>Notomastus</u> sp.					
Paraonidae, unid.					
<u>Paraonis gracilis oculata</u> Hartman					
<u>Paraprionospio pinnata</u> (Ehlers)				125614	
<u>Pectinaria californiensis</u> Hartman		127921	1		
<u>Pherusa</u> sp.					
<u>Pista disjuncta</u> Moore					
<u>P. fasciata</u> (Grube)					
<u>P. moorei</u> Berkeley & Berkeley					128346
<u>Pista</u> sp.					
<u>Poecilochaetus johnsoni</u> Hartman					
<u>Polycirrus perplexus</u> Moore	polychaete worm				

ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
SEDENTERIA (Cont)					
<u>Polydora citrona</u> Hartman	polychaete worm				
<u>Polydora</u> sp.					
<u>Potamilla neglecta</u> (Sars)					
<u>Praxillella affinis pacifica</u> Berkeley					
<u>P. gracilis</u> (Sars)					
<u>Prionospio cirrifera</u> Wiren					
<u>P. malmgreni</u> Claparede		225613			
<u>Sabellaria cementarium</u> Moore					
Sabellidae, unid.					
<u>Scalibregma inflatum</u> Rathke					
<u>Scoloplos armiger</u> (Mueller)					1025163
<u>Spio</u> sp.					
<u>Spiochaetopterus costarum</u> (Claparede)					1 26241
Spionidae, unid.					
<u>Spiophanes bombyx</u> (Claparede)		525662	1		
<u>S. cirrata</u> Berkeley & Berkeley					
<u>S. missionensis</u> Hartman					
<u>Spiophanes</u> sp.					
<u>Sternaspis fossor</u> Stimpson					
<u>Streblosoma crassibranchia</u> Treadwell					
Terebellidae, unid.		2 <sup>d</sup> 28200			
<u>Terebellides stroemi</u> Sars					
<u>Tharyx</u> sp.		26380	45	21	1 3
<u>Travisia brevis</u> Moore					
<u>T. foetida</u> Hartman	polychaete worm				
SIPUNCULOIDEA					
Sipunculoidea, unid.	peanut worm				
ECHIUROIDEA					
<u>Listriolobus pelodes</u> Fisher	spoon worm				

## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
ARTHROPODA					
CRUSTACEA					
OSTRACODA					
Cylindroberididae, unid.	seed shrimp				
Cyprinidae, unid.					
Cythereidae, unid.					
<u>Euphilomedes carcharodonta</u> Smith					
<u>E. longiseta</u> Juday					
<u>E. oblonga</u> Juday					2 52033
<u>E. producta</u> Poulsen					
<u>Euphilomedes</u> sp.					
Myodocopidae, unid.					
<u>Philomedes lomae</u> Juday					
<u>Rutiderma rostrata</u> Juday					
<u>Rutiderma</u> sp.					
<u>Scleroconcha</u> sp.	seed shrimp				
CIRRIPIEDIA					
<u>Scalpellum californicum</u> Pilsbry	gooseneck barnacle				
<u>Scalpellum</u> sp.	gooseneck barnacle				
MALACOSTRACA					
NEBALIACEA					
Nebaliacea, unid.	leptostracan				
MYSIDACEA					
Mysidacea, unid.	fairy shrimp				
<u>Acanthomysis macropsis</u> Tattersall					1 58733
<u>Acanthomysis</u> sp.					
<u>Archaeomysis grebnitzkii</u> Czerniavsky					
<u>Archaeomysis</u> sp.	fairy shrimp				

## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
MYSIDACEA (Cont)					
<u>Neomysis kadiakensis</u> Ortmann	fairy shrimp				
<u>Neomysis</u> sp.	fairy shrimp				
CUMACEA					
<u>Anchicolurus occidentalis</u> Calman	cumacean				2 <sup>c</sup> 59111
<u>Campylaspis canaliculata</u> Zimmer					
<u>C. hartae</u> Lie					
<u>C. rubromaculata</u> Lie					
<u>Campylaspis</u> sp. C					
<u>Cumella</u> sp. A		159131			
<u>Cumella</u> sp. B					
<u>Cumella</u> sp. C					
<u>Cyclaspis</u> sp. A					
<u>Cyclaspis</u> sp. B					159163 1
<u>Cyclaspis</u> sp.					
Diastylidae, unid.					
<u>Diastylis californica</u> Zimmer					
<u>Diastylis</u> sp. A					
<u>Diastylis</u> sp.					
<u>Diastylopsis tenuis</u> Zimmer		2 <sup>c</sup>	1 59271		2
<u>Eudorella pacifica</u> Hart					
<u>Hemilamprops californica</u> Zimmer		2 <sup>c</sup>	2 59211	4	3
Lampropidae, unid.					
<u>Lamprops carinata</u> Hart					
<u>L. quadriplicata</u> Smith		2 <sup>c</sup>	3 59222		5 59221 11
<u>Lamprops</u> sp.					
<u>Leptostylis</u> sp. A					
<u>Leucon subnasica</u> Given					
<u>Leucon</u> sp.					
<u>Mesolamprops bispinosa</u> Given					
<u>Oxyurostylis pacifica</u> Zimmer	cumacean	3 59251			6



## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
TANAIDACEA					
<u>Leptocheilia</u> sp.	cheliferan				
<u>Leptognathia</u> sp.	cheliferan				
ISOPODA					
VALVIFERA					
<u>Edotea sublittoralis</u> Menzies & Barnard	isopod		2 61381		1
<u>Neastacilla californica</u> (Boone)					
<u>Synidotea magnifica</u> Menzies & Barnard					
ANTHURIDEA					
<u>Haliophasma geminata</u> Menzies & Barnard					
GNATHIIDEA					
<u>Gnathia crenulatifrons</u> Monod					
<u>Gnathia</u> sp.					
ASELLOTA					
<u>Austrosignum tillerae</u> Menzies & Barnard					
<u>Munna</u> sp.					
<u>Pleurogonium</u> sp.	isopod		1 64640		
AMPHIPODA					
GAMMARIDEA					
Gammaridea, unid.	amphipod				1 <sup>k</sup> 70000
<u>Ampelisca brevisimulata</u> Barnard					
<u>A. compressa</u> Holmes					
<u>A. cristata</u> Holmes					
<u>A. cucullata</u> Barnard					
<u>A. hancocki</u> Barnard					
<u>A. indentata</u> Barnard					
<u>A. macrocephala</u> Liljeborg					
<u>A. milleri</u> Barnard	amphipod		2 70215		

## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
GAMMARIDEA (Cont)					
<u>Ampelisca pacifica</u> Holmes	amphipod				
<u>A. pugetica</u> Stimpson					
<u>A. cf. shoemakeri</u> Barnard					
<u>Ampelisca</u> sp.					
<u>Amphideutopus oculatus</u> Barnard					
Aoridae, unid.					
<u>Byblis veleronis</u> Barnard					
<u>Byblis</u> sp.					
<u>Eohaustorius washingtonianus</u> (Thorsteinson)					
<u>Gammaropsis</u> sp.					
<u>Gitana calitemplado</u> Barnard					
<u>Heterophoxus oculatus</u> (Holmes)					
Isaeidae, unid.					
<u>Isaeidae</u> sp. A					1 <sup>e</sup> 72801
<u>Lembos audbettius</u> Barnard					
<u>Listriella diffusa</u> Barnard					
<u>L. goleta</u> Barnard					
<u>L. melanica</u> Barnard					
<u>Listriella</u> sp.					
Lysianassidae, unid.					
<u>Mandibulophoxus uncistrostratus</u> (Giles)					
<u>Megaluropus longimerus</u> Schellenberg					
? <u>Melphisana bola</u> Barnard					1 <sup>c</sup> 17221 1 4 74661 3 <sup>c</sup>
<u>Metaphoxus frequens</u> Barnard					
<u>Metopa cf. dawsoni</u> Barnard					
<u>Microjassa litotes</u> Barnard					
<u>Monoculodes</u> sp.					1 <sup>c</sup> 74130 1 <sup>c</sup>
Oedicerotidae, unid.					
<u>Paraphoxus abronius</u> Barnard	amphipod				

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Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
<b>GAMMARIDEA (Cont)</b>					
<u>Paraphoxus bicuspidatus</u> Barnard	amphipod				
<u>P. heterocuspoidatus</u> Barnard					
<u>P. obtusidens</u> (Alderman)					
<u>Paraphoxus</u> sp.					1 <sup>C</sup> 74610
<u>Parapleustes</u> sp.					
<u>Photis bifurcata</u> Barnard					
<u>P. brevipes</u> Shoemaker					
<u>P. californica</u> Stout					
<u>P. macrotica</u> Barnard					
<u>Photis</u> sp.					
Pleustidae, unid.					
<u>Rudilemboides stenopropodus</u> Barnard					
Stenothoidae, unid.					
<u>Synchelidium</u> sp.					
<u>Tiron biocellata</u> Barnard					
<u>Westwoodilla caecula</u> (Bate)					
<b>CAPRELLIDEA</b>					
<u>Caprella californica</u> Stimpson	skeleton shrimp				
<u>C. equilibra</u> Say					
<u>C. mendax</u> Mayer					
<u>Caprella</u> sp.					
<u>Mayerella banksia</u> Laubitz					
<u>Tritella pilimana</u> Mayer					
<u>Tritella</u> sp.					
<b>EUPHAUSIACEA</b>					
Euphausiacea, unid.	krill				
<b>DECAPODA</b>					
Decapoda, unid.	crab/shrimp				

1<sup>C</sup> 72810

4 728171

2<sup>C</sup>

1 74110

4<sup>C</sup>

3

1 75521

3

amphipod

skeleton shrimp

ORCOSAN BENTHIC INVERTEBRATES

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Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
CARIDEA					
<u>Crangon communis</u> Rathbun	shrimp				
ANOMURA					
Anomura, unid.	crab/shrimp				
<u>Callianassa</u> sp.	shrimp				
Callianassidae, unid.	shrimp				
<u>Lepidopa myops</u> , zoea Stimpson	sand crab zoea				
Porcellanidae, unid.	crab				
BRACHYURA					
Brachyura, unid.	crab				
<u>Cancer</u> sp.	crab				
? <u>Parapinnixa</u> sp.	pea crab				
<u>Pinnixa franciscana</u> Rathbun	pea crab				
<u>P. occidentalis</u> Rathbun	pea crab				
<u>Pinnixa</u> sp.	pea crab				
Pinnotheridae, unid.	pea crab				
<u>Randallia ornata</u> (Randall)	crab				
INSECTA					
Insecta, unid.	insect larvae				
MOLLUSCA					
GASTROPODA					
MESOGASTROPODA					
<u>Balcis micans</u> (Carpenter)	snail				
<u>B. oldroydi</u> (Bartsch)					
<u>B. rutila</u> (Carpenter)					
<u>Bittium quadrifilatum</u> Carpenter					
<u>Caecum crebricinctum</u> Carpenter					
<u>Epitonium cf. acrostephanus</u> (Dall)					
<u>Eulima californica</u> (Bartsch)	snail				

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## ORCOSAN BENTHIC INVERTEBRATES

STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
MESOGASTROPODA (Cont)					
<u>Fartulum occidentale</u> Bartsch	snail				
<u>Neverita recluziana</u> (Deshayes)					
NEOGASTROPODA					
<u>Amphissa</u> sp.					
<u>Kurtzia arteaga</u> (Dall & Bartsch)					
<u>Kurtziella beta</u> (Dall)					
<u>K. plumbea</u> (Hinds)					
<u>Mitrella</u> sp.	snail				
<u>Nassarius fossatus</u> (Gould)	mud snail				
<u>Olivella baetica</u> Carpenter	olive snail				
			10 <sup>C</sup>	36512	3 <sup>C</sup>
OPISTHOBRANCHIA					
<u>Acteocina intermedia</u> Willet	snail				
<u>Acteocina</u> sp.	snail				
<u>Aglaja ocelligera</u> (Bergh)	sea slug				
<u>Aglaja</u> sp.	sea slug				
<u>Cephalaspidea</u> sp. A	snail				
<u>Cylichna diegensis</u> (Dall)	snail				
<u>Gastropterion pacificum</u> Bergh	sea slug				
<u>Odostomia</u> sp. C	snail				
<u>Rictaxis punctocaelatus</u> (Carpenter)					
<u>Turbonilla</u> sp. D					
<u>Turbonilla</u> sp. E					
<u>Turbonilla</u> sp. G					
<u>Turbonilla</u> sp. J					
<u>Volvulella californica</u> Dall					
<u>V. cylindrica</u> (Carpenter)					
<u>V. panamica</u> Dall					
<u>Volvulella</u> sp.	snail				
				4 <sup>C</sup> 38131	
				1 38044	
				2 38045	

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STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
PELECYPODA					
Pelecypoda, unid.	clam				
NUCULOIDA					
<u>Acila castrensis</u> (Hinds)					
<u>Nucula</u> sp.					
<u>Nuculana</u> sp.					
<u>Yoldia scissurata</u> (Dall)					
MYTILOIDA					
<u>Amygdalum pallidulum</u> (Dall)					
<u>Crenella decussata</u> (Montagu)					
<u>C. divaricata</u> (Orbigny)					
<u>Crenella</u> sp.					
<u>Megacrenella columbiana</u> (Dall)	clam				
<u>Modiolus neglectus</u> Soot-Ryen	mussel				
Mytilidae, unid.	mussel				
VENEROIDA					
<u>Adontorhina cyclica</u> Berry	clam				
<u>Axinopsida serricata</u> (Carpenter)					
<u>Compsomyax subdiaphana</u> (Carpenter)					
<u>Cooperella subdiaphana</u> (Carpenter)					
<u>Cyclocardia ventricosa</u> (Gould)					
<u>Cyclocardia</u> sp.					
<u>Gari californica</u> (Conrad)					
<del><u>Lepton meroeum</u> Carpenter</del> <i>ORBITELLA CHACEI</i>					
<u>Lucina nuttallii</u> (Conrad)					
<u>Lucinoma annulata</u> (Reeve)					
<u>Macoma acolasta</u> Dall					
<u>M. carlottensis</u> Whiteaves	clam				

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STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
VENEROIDA (Cont)					
<u>Macoma</u> sp.	clam		1 <sup>c</sup> 44220		
<u>Mactra californica</u> Conrad					1 <sup>c</sup> 44012
<u>Mysella pedroana</u> (Dall)					
<u>Mysella</u> sp. C					
<u>Mysella</u> sp.					
<u>Nemocardium centifilosum</u> (Carpenter)					
<u>Parvilucina</u> sp.					
<u>Siliqua lucida</u> (Conrad)	clam				1 <sup>c</sup> 44731
<u>Solen</u> sp.	razor clam				
<u>Tellina bodegensis</u> (Hinds)	clam				1 <sup>c</sup> 44211
<u>T. modesta</u> Carpenter					
<u>Tellina</u> sp.			1 44216		
<u>Thyasira flexuosa</u> (Montagu)					
MYOIDA					
<u>Corbula luteola</u> Carpenter					
<u>Corbula</u> sp.	clam				
<u>Panopea generosa</u> (Gould)	geoduck clam				
PHOLADOMYOIDA					
<u>Cardiomya californica</u> (Dall)	clam				
<u>C. cf. pseustes</u> Dall					
<u>Cuspidaria parapodema</u> Barnard					
<u>Lyonsia californica</u> Conrad					
<u>Periploma discus</u> Stearns					
<u>Thracia curta</u> Conrad					
<u>T. diegensis</u> Dall	clam				
SCAPHOPODA					
Scaphopoda, unid.	tusk snail				
<u>Cadulus fusiformis</u> Pilsbry & Sharp	tusk snail				
<u>Dentalium rectius</u> Carpenter	tusk snail				

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STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
APLACOPHORA					
<u>Chaetoderma</u> cf. <u>nitidulum</u> (Loven)	solenogaster				
<u>Chaetoderma</u> sp.	solenogaster				
PHORONIDA					
Phoronida, unid.	phoronid worm				294050
<u>Phoronis</u> sp.	phoronid worm				
ECTOPROCTA					
GYMNOLAEMASTA					
CTENOSTOMATA					
<u>Alcyonidium</u> <u>mammillatum</u> Alder	moss animal				
BRACHIOPODA					
<u>Glottidia</u> <u>albida</u> (Hinds)	lamp shell				
ECHINODERMATA					
ASTEROIDEA					
Asteroidea, unid.	sea star				
<u>Astropecten</u> <u>verrilli</u> De Loriol	sand star				
OPHIUROIDEA					
Ophiuroidea, unid.	brittle star				
ECHINOIDEA					
Echinoidea, unid.	sea urchin				
<u>Dendraster</u> <u>excentricus</u> (Eschscholtz)	sand dollar				1 <sup>c</sup> 966/1 1 <sup>c</sup>
HOLOTHUROIDEA					
Holothuroidea, unid.	sea cucumber				
<u>Caudina</u> sp.	sea cucumber				1 <sup>c</sup> 9600 1 <sup>c</sup>
<u>Leptosynapta</u> sp. B	sea cucumber				

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STATION S/B8

Species/Describer	Common Name	Replicate			
		1a	1b	2a	2b
HEMICHORDATA					
Enteropneusta, unid.	acorn worm				
CHORDATA					
ASCIDIACEA					
Ascidiacea, unid.	ascidian				
CEPHALOCORDATA					
<u>Branchiostoma californiense</u> Andrews	lancelet				198611
VERTEBRATA					
PISCES					
Pisces, unid.	fish				
<u>Icelinus quadriseriatus</u> (Lockington)	yellowchin sculpin				
<u>Symphurus atricauda</u> (Jordan & Gilbert)	California tongue sole				

SB-8

Replicate

1a

1b

2a

2b

ECHINODERMATA

ASTEROIDEA

Asteroidea, unid.

Astropectin verrilli

Astropectin sp (juv.)

Ophiuroidea

Amphiodia urtica

Amphiodia sp. (juv)

Amphiodia, U.I. (juv)

Ophiuroidea, U.I.

Amphiodia occidentalis

Amphiodia sp.

Amphiodia digitata

Ophiura lutkeni

Amphiura arcystata

Amphichondrius granulosa

Amphipholis squamata

98776

1

ECHINOIDEA

Echinoidea, unid.

Dendraster excentricus

Dendraster (juv.)

Brissopsis

1c

1c

98641

2

HOLOTHUROIDEA

Holothuroidea, unid

Caudina, sp.

Leptosynapta sp. B

1c

1c

98630